

Product range

PROGEF

Polypropylene welded system



PROGEF Standard – System specification

Material	Material	Beta PP-H 100 (Beta Polypropylene Homopolymer)
	Colour	RAL 7032 pebble grey
	Density	~0.90 g / cm ³ (ISO 1183 / ASTM D 792)
	Thermal expansion coefficient	0.16-0.18 mm / mK (DIN 53752)
	E-modulus	1300 N / mm ² (ISO 527 / ASTM D 790) 900 N / mm ² (ISO 527 / ASTM D 790)
	Thermal conductivity	0.23 W / mK (EN 12664)
	Surface resistivity	> 10 ¹⁶ Ω (IEC 60093)
Dimension	d16-d500 in accordance to EN ISO 15494	
Pressure rating	Pipes / fittings / diaphragm and ball valves	d16-d500 SDR11, PN10, c = 2.0
		d50-d315 SDR17.6, PN6, c = 2.0
	Butterfly valves	d63-d225 PN10, d280-d315 PN 8
Temperature rating	From 0 °C to 80 °C (32 °F – 176 °F)	
Production	Fittings	Injection moulded or segment welded
	Pipes	Extruded
	Valves	Injection moulded
Product marking	All components are embossed with a permanent identification during the production process to ensure full traceability.	Lot No
		Material
		Dimension
		Pressure rating
Testing and inspection (EN ISO 15494)	Visual inspection	
	Surface finish	
	Dimension tolerance	
	Pressure testing	
	Full product range passed the Initial Type Test (ITT)	
Material- and product approvals / conformance ⁽¹⁾	FDA CFR 21 177.1520	
	USP 25 class VI (physiological non-toxic)	
	DIBt (Z-40.23-4, Z-40.34-264, Z – 40.23-265)	
	DNV (K-2630, K – 2636)	
	Lloyd's register (01 / 20030(E1))	
Fusion technology	Socket fusion (DVS 2207-11)	d16-d110
	IR Plus, infrared fusion (DVS 2207-6)	d20-d315
	Butt fusion (DVS 2207-11)	d20-d500
Documentation ⁽²⁾	EN 10204 2.2 / EN 10204 3.1	
Packaging	Pipes, fittings and valves bulk bagged	
Labeling	Brand name	
	Product description	
	Article number	
	Material	
	Dimension	
Main applications	Standards and approvals	
	PROGEF has been relied to be highly resistant to impact, abrasion and many chemicals. Suitable for industrial applications in chemical production, chemical distribution, galvanisation and power stations.	

⁽¹⁾ For the thermoplastic material only
⁽²⁾ On request

PROGEF Plus – System specification

Material	Material	Beta PP-H 100 (Beta Polypropylene Homopolymer)
	Colour	RAL 7032 pebble grey
	Density	~0.90 g / cm ³ (ISO 1183 / ASTM D 792)
	Thermal expansion coefficient	0.16-0.18 mm / mK (DIN 53752)
	E-modulus	1300 N / mm ² (ISO 527 / ASTM D 790) 900 N / mm ² (ISO 527 / ASTM D 790)
	Thermal conductivity	0.23 W / mK (EN 12664)
	Surface resistivity	> 10 ¹⁶ Ω (IEC 60093)
Dimension	d20-d315 in accordance to EN ISO 15494	
Pressure rating	Pipes / fittings / diaphragm and ball valves	d20-d315 SDR11, PN10, c = 2.0
		d50-d315 SDR17.6, PN6, c = 2.0
	Butterfly valves	d63-d225, PN10
Temperature rating	From 0 °C to 80 °C (32 °F – 176 °F)	
Production	Fittings / valves	Injection moulded
	Pipes	Extruded
	Treatment	Every component is specially cleaned according to a process defined by GF. Pipes and fittings are silicon-, oil- and dustfree. Additional specifications for valves. Products especially suitable for the paint and microelectronics industry.
Surface condition	Inner surface Ra m 1.0 µm (39 µin) for components d20-d110 Inner surface Ra m 1.5 µm (59 µin) for components d125-d 315	
Product marking	All components are embossed with a permanent identification during the production process to ensure full traceability.	Lot No
		Material
		Dimension
		Pressure rating
Testing and inspection (EN ISO 15494)	Visual inspection	
	Surface finish	
	Dimension tolerance	
	Pressure testing	
	Full product range passed the Initial Type Test (ITT)	
Material- and product approvals / conformance ⁽¹⁾	FDA CFR 21 177.1520	
	USP 25 class VI (physiological non-toxic)	
Fusion technology	IR Plus, infrared fusion (DVS 2207-6)	d20-d225
	Butt fusion (DVS 2207-11)	d20-d315
Documentation ⁽²⁾	EN 10204 2.2 / EN 10204 3.1	
Packaging	Pipes, fittings and valves, each component double bagged	
Labeling	Brand name	
	Product description	
	Article number	
	Material	
	Dimension	
	Standards and approvals	
Main applications	Due to the special treatment, PROGEF Plus piping systems are suitable for economical delivery of ultrapure water in semiconductor and TFT / FPD applications and ensure high quality in the paint industry. Highly resistant to impact, abrasion and many chemicals.	

⁽¹⁾ For the thermoplastic material only

⁽²⁾ On request

PROGEF Natural – System specification

Material	Material	Polypropylene random copolymer
	Colour	pigment-free, transparent
	Density	~0.90 g / cm ³ (ISO 1183 / ASTM D 792)
	Thermal expansion coefficient	0.15 mm / mK (DIN 53752)
	E-modulus	900 N / mm ² (ISO 527 / ASTM D 790)
	Thermal conductivity	0.23 W / mK (EN 12664)
	Surface resistivity	> 10 ¹⁶ Ω (IEC 60093)
Dimension	d20-d110 in accordance with EN ISO 15494	
Pressure rating	Pipes / fittings / diaphragm valves:	d20-d63 SDR11, PN10, c = 2.0
		d75-d110 SDR17.6, PN6, c = 2.0
Temperature rating	From 0 °C to 80 °C	
Production	Fittings / valves: injection moulded	Pipes: extruded
Surface condition	Inner surface Ra < 1 µm (39 µin)	
Product marking	Fittings, pipes and valves are embossed with a permanent identification during the production process to ensure full traceability.	
	Process to ensure full traceability	Lot No
		Material
		Dimension
Testing and inspection (EN ISO 15494)	Inclusions	
	Visual inspection	
	Surface finish	
	Dimension tolerance	
	Pressure testing	
	Full product range passed the Initial Type Test (ITT)	
Material- and product approvals ⁽¹⁾	FDA CFR 21 177.1520	
	USP 25 class VI (physiological non-toxic)	
Fusion technology	BCF Plus, bead and crevice free fusion	
	IR Plus, infrared fusion (DVS 2207-6)	
	Butt fusion (DVS 2207-11)	
Documentation ⁽²⁾	Certificate of conformance with FDA, USP	
	EN 10204 2.2	
	EN 10204 3.1	
	ASME BPE	
Packaging	Pipes	Capped & single bagged
	Fittings / valves	Single bagged
Labeling	Brand name	
	Product description	
	Code number	
	Material	
	Dimension	
	Approvals	
Main applications	Uses include cost effective, pure distribution of DI-water and critical biological fluids where chemical sanitisation is needed. B ead and C revi C Free jointing and minimal metallic leachout ensure the highest product quality. Highly resistant to impact, abrasion and many chemicals make it ideal for slurries transportation in the semiconductor industry.	

⁽¹⁾ For the thermoplastic material only
⁽²⁾ On request

Table of contents

FRONT	1
PROGEF Standard metric	7
PROGEF Standard ASTM / ANSI	305
PROGEF Standard JIS	372
PROGEF Plus	389
PROGEF Natural	448
Electric & pneumatic actuators	475
Fusion machines and tools	489
Spare parts	530
BACK	640

PROGEF Standard metric

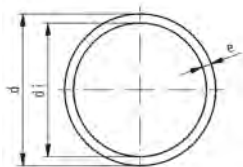


	Pipes	11
	Butt fusion fittings SDR 11	13
	Butt fusion fittings SDR 17.6	25
	Butt fusion unions and o-rings	36
	Butt fusion transition fittings	40
	Butt fusion flange adaptors, flanges and gaskets	42
	Butt fusion installation fittings	52
	Socket fusion fittings	55
	Socket fusion unions and o-rings	59
	Socket fusion transition fittings	64
	Socket fusion flange adaptors, flanges and gaskets	68
	Socket fusion installation fittings	73
	Ball valves type 546 Pro	74
	Ball valves type 542	82
	Ball valves type 523 Pro	87
	Ball valves type 543 Pro	90
	Ball valves electric type 127	100

	Ball valves electric type 168	106
	Ball valves electric type 180	107
	Ball valves pneumatic type 546 Pro P	114
	Ball valves pneumatic type 543 Pro P	136
	Butterfly valves type 565	152
	Butterfly valves type 567	158
	Butterfly valves type 578	164
	Butterfly valves electric type 145	167
	Butterfly valves electric type 146	172
	Butterfly valves pneumatic type 243	191
	Diaphragm valves type 317	237
	Diaphragm valves type 514	239
	Diaphragm valves type 515	241
	Diaphragm valves type 517	243
	Diaphragm valves type 519	244
	Diaphragm valves pneumatic DIASTAR Six	246
	Diaphragm valves pneumatic DIASTAR Ten	250

	Diaphragm valves pneumatic DIASTAR TenPlus	265
	Diaphragm valves DIASTAR big dimensions	272
	Pressure regulating valves type 586	275
	Diaphragm valves pneumatic type 604 / 605	280
	Pressure regulating valves type 582	284
	Ventilating valves	287
	Solenoid valves	287
	Cone check valves	389
	Wafer check valves	300
	Strainers	303

Pipes

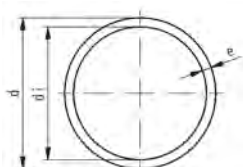


PROGEF Standard pipe SDR7,4/PN16/S3,2

Model:

- Material: PP-H - homopolymer
- Dimension: acc. to DIN 8077/78
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

d	SDR	PN	Code	Weight	e
(mm)		(bar)		(kg/m)	(mm)
16	7.4	16	167 481 027	0.095	2.2
20	7.4	16	167 481 028	0.148	2.8
25	7.4	16	167 481 029	0.230	3.5

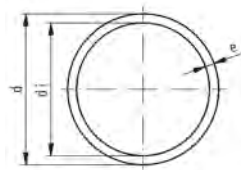


PROGEF Standard pipe SDR11/PN10/S5

Model:

- Material: PP-H - homopolymer
- Dimension: acc. to DIN 8077/78 and DIN EN 15494
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends

d	SDR	PN	Code	Weight	di	closest	e
(mm)		(bar)		(kg/m)	(mm)	inch (inch)	(mm)
16	11	10	167 480 710	0.080	12.4	3/4	1.8
20	11	10	167 480 711	0.107	16.2	1/2	1.9
25	11	10	167 480 712	0.164	20.4	3/4	2.3
32	11	10	167 480 713	0.261	26.2	1	2.9
40	11	10	167 480 714	0.412	32.6	1 1/4	3.7
50	11	10	167 480 715	0.638	40.8	1 1/2	4.6
63	11	10	167 480 716	1.010	51.4	2	5.8
75	11	10	167 480 717	1.410	61.4	2 1/2	6.8
90	11	10	167 480 718	2.030	73.6	3	8.2
110	11	10	167 480 719	3.010	90.0	4	10.0
125	11	10	167 480 720	3.910	102.2	4 1/2	11.4
140	11	10	167 480 721	4.870	114.6	5	12.7
160	11	10	167 480 722	6.380	130.8	6	14.6
180	11	10	167 480 723	8.070	147.2	7	16.4
200	11	10	167 480 724	9.950	163.6	8	18.2
225	11	10	167 480 725	12.600	184.0	9	20.5
250	11	10	167 480 726	15.500	204.6	10	22.7
280	11	10	167 480 727	19.400	229.2	11	25.4
315	11	10	167 480 728	24.600	257.8	12	28.6
355	11	10	167 480 729	31.200	290.6	14	32.2
400	11	10	167 480 730	39.600	327.4	16	36.3
450	11	10	167 480 731	50.200	368.2	18	40.9
500	11	10	167 480 732	63.300	409.2	20	45.4



PROGEF Standard pipe SDR17,6/PN6/S8,3

Model:

- Material: PP-H - homopolymer
- Dimension: acc. to DIN 8077/78 and DIN EN 15494
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends

d	SDR	PN	Code	Weight	e
(mm)		(bar)		(kg/m)	(mm)
25	17.6	6	167 480 676	0.132	1.8
32	17.6	6	167 480 678	0.172	1.9
40	17.6	6	167 480 679	0.273	2.3
50	17.6	6	167 480 680	0.422	2.9
63	17.6	6	167 480 681	0.659	3.6
75	17.6	6	167 480 682	0.935	4.3
90	17.6	6	167 480 683	1.330	5.1
110	17.6	6	167 480 684	1.990	6.3
125	17.6	6	167 480 685	2.550	7.1
140	17.6	6	167 480 686	3.200	8.0
160	17.6	6	167 480 687	4.170	9.1
180	17.6	6	167 480 688	5.250	10.2
200	17.6	6	167 480 689	6.500	11.4
225	17.6	6	167 480 690	8.190	12.8
250	17.6	6	167 480 691	10.100	14.2
280	17.6	6	167 480 692	12.600	15.9
315	17.6	6	167 480 693	16.000	17.9
355	17.6	6	167 480 694	20.300	20.1
400	17.6	6	167 480 695	25.700	22.7
450	17.6	6	167 480 696	32.500	25.5
500	17.6	6	167 480 697	40.200	28.4

Butt fusion fittings SDR 11



1



2



PROGEF Standard Bend 90° SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- New code numbers in dimensions d125-d315 not available yet, please refer to the existing code numbers 727018615-727018523.

* Material:PP-R

d	SDR	PN	FM	Type	Code	Weight	L	L1	R	e
(mm)		(bar)				(kg)	(mm)	(mm)	(mm)	(mm)
20	11	10	IR	1	727 018 606	0.008	38	23	15.00	1.9
25	11	10	IR	1	727 018 607	0.013	42	23	19.00	2.3
32	11	10	IR	1	727 018 608	0.022	46	22	24.00	2.9
40	11	10	IR	1	727 018 609	0.040	51	21	30.00	3.7
50	11	10	IR	1	727 018 610	0.067	58	21	37.00	4.6
63	11	10	IR	1	727 018 611	0.117	66	21	45.00	5.8
75	11	10	IR	2	727 018 622	0.178	75	21	71.25	6.8
90	11	10	IR	2	727 018 623	0.308	90	22	85.50	8.2
110	11	10	IR	2	727 018 624	0.556	110	25	104.50	10.0
125	11	10	IR	2	727 018 315	0.952	145	34	127.00	11.4
140	11	10	IR	2	727 018 316	1.319	162	38	142.00	12.7
160	11	10	IR	2	727 018 317	1.933	183	40	162.00	14.6
180	11	10	IR	2	727 018 318	2.621	200	38	182.00	16.4
200	11	10	IR	2	727 018 319	3.552	220	40	202.00	18.2
225	11	10	IR	2	727 018 320	5.003	245	41	228.00	20.5
250	11	10	IR	2	727 018 321	7.080	280	51	253.00	22.7
280	11	10	IR	2	727 018 322	9.823	310	52	283.00	25.4
315	11	10	IR	2	727 018 323	14.024	350	61	318.00	28.6
*	355	11	10	2	727 018 524	16.400	345	70	330.00	32.2
*	400	11	10	2	727 018 525	22.220	365	70	350.00	36.3
*	450	11	10	2	727 018 526	32.560	425	70	400.00	40.9
*	500	11	10	2	727 018 527	44.840	470	90	445.00	45.4



1



2

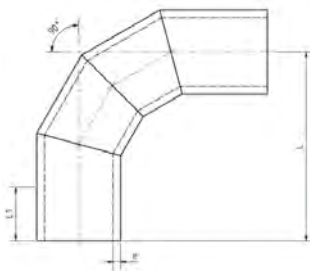


PROGEF Standard Bend 90° SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

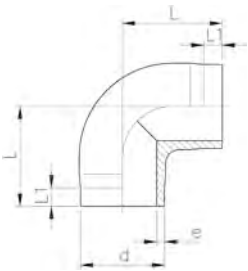
d (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
125	11	10	727 018 615	0.818	125	28	116.00	11.4
140	11	10	727 018 616	1.148	140	33	131.00	12.7
160	11	10	727 018 617	1.699	160	33	151.00	14.6
180	11	10	727 018 618	2.394	180	33	171.00	16.4
200	11	10	727 018 619	3.264	200	33	190.00	18.2
225	11	10	727 018 620	4.535	220	33	210.00	20.5
250	11	10	727 018 521	6.351	256	48	232.00	22.7
280	11	10	727 018 522	9.398	286	48	262.00	25.4
315	11	10	727 018 523	12.959	321	48	297.00	28.6



Bend 90°, PP-H S5/SDR11

- big dimensions on request
- For butt- and electro fusion
- Reduction factor = 0,8

d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	700 649 384	315	150	10.0
125	700 649 385	338	150	11.4
140	700 649 386	360	150	12.8
160	700 649 387	390	150	14.6
180	700 649 388	420	150	16.4
200	700 649 389	450	150	18.2
225	700 649 390	488	150	20.5
250	700 649 391	625	250	22.8
280	700 649 392	670	250	25.5
315	700 649 393	773	300	28.7
355	700 649 394	833	300	32.3
400	700 649 395	900	300	36.4



PROGEF Standard Elbow 90° SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

d	SDR	PN	FM	Code	Weight	L	L1	e
(mm)		(bar)			(kg)	(mm)	(mm)	(mm)
20	11	10	IR	727 108 506	0.008	38	25	1.9
25	11	10	IR	727 108 507	0.012	42	26	2.3
32	11	10	IR	727 108 508	0.022	46	27	2.9
40	11	10	IR	727 108 509	0.045	51	22	3.7
50	11	10	IR	727 108 510	0.080	58	23	4.6
63	11	10	IR	727 108 511	0.138	66	21	5.8



PROGEF Standard Elbow 45° SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Long version for d250, d280 and d315

1) Material: PP-R

d	SDR	PN	FM	Code	Weight	L	L1	e
(mm)		(bar)			(kg)	(mm)	(mm)	(mm)
20	11	10	IR	727 158 506	0.006	32	24.0	1.9
25	11	10	IR	727 158 507	0.010	34	25.0	2.3
32	11	10	IR	727 158 508	0.021	36	25.0	2.9
40	11	10	IR	727 158 509	0.033	39	25.0	3.7
50	11	10	IR	727 158 510	0.054	42	26.0	4.6
63	11	10	IR	727 158 511	0.097	47	29.0	5.8
75	11	10	IR	727 158 512	0.137	49	29.0	6.8
90	11	10	IR	727 158 513	0.222	57	34.0	8.2
110	11	10	IR	727 158 514	0.412	70	43.0	10.0
125	11	10	IR	727 158 515	0.570	79	48.0	11.4
140	11	10	IR	727 158 516	0.854	88	55.0	12.7
160	11	10	IR	727 158 517	1.256	100	60.0	14.6
200	11	10	IR	727 158 519	2.448	124	75.0	18.2
225	11	10	IR	727 158 520	3.495	140	85.0	20.5
1	250	11	IR	727 158 521	7.890	225	133.0	22.7
1	280	11	IR	727 158 522	10.170	235	143.0	25.4
1	315	11	IR	727 158 523	11.690	255	154.0	28.6

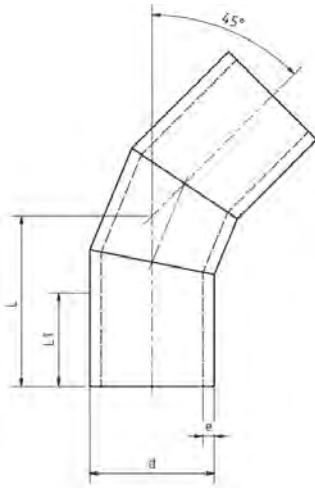
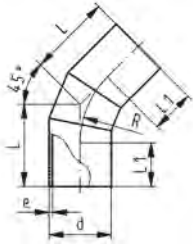


PROGEF Standard Bend 45° SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8

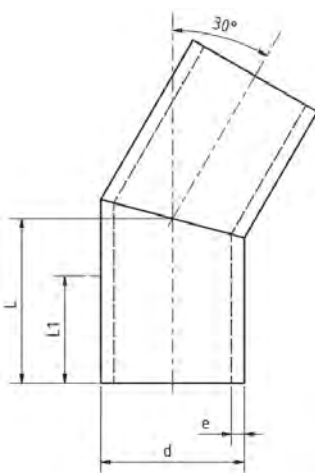
d (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
355	11	8	727 158 524	32.300	520	300	532.5	32.2
400	11	8	727 158 525	43.200	548	300	600.0	36.3
450	11	8	727 158 526	57.700	580	300	675.0	40.9
500	11	8	727 158 527	87.200	665	350	750.0	45.4



PROGEF Elbow 45°, PP-H S5/SDR11

- big dimensions on request
- For butt- and electro fusion
- Reduction factor = 0,8

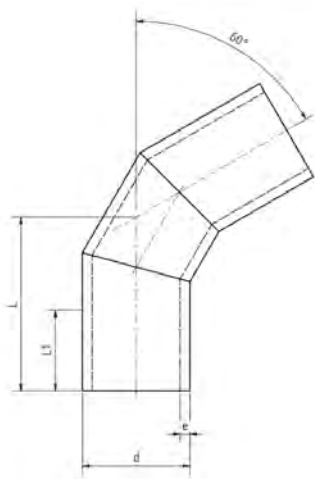
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	700 649 444	218	150	10.0
125	700 649 445	228	150	11.4
140	700 649 446	237	150	12.8
160	700 649 447	249	150	14.6
180	700 649 448	262	150	16.4
200	700 649 449	274	150	18.2
225	700 649 450	290	150	20.5
250	700 649 451	412	250	22.8
280	700 649 452	424	250	25.5
315	700 649 453	498	300	28.7



PROGEF Elbow 30°, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

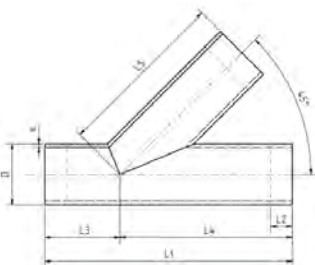
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	700 649 469	194	150	10.0
125	700 649 470	200	150	11.4
140	700 649 471	206	150	12.8
160	700 649 472	214	150	14.6
180	700 649 473	222	150	16.4
200	700 649 474	230	150	18.2
225	700 649 475	241	150	20.5
250	700 649 476	350	250	22.8
280	700 649 477	362	250	25.5
315	700 649 478	428	300	28.7
355	700 649 479	443	300	32.3
400	700 649 480	461	300	36.4



PROGEF Elbow 60°, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

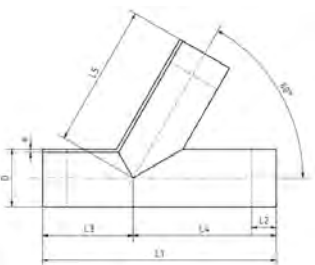
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	700 649 420	245	150	10.0
125	700 649 421	258	150	11.4
140	700 649 422	271	150	12.8
160	700 649 423	288	150	14.6
180	700 649 424	305	150	16.4
200	700 649 425	323	150	18.2
225	700 649 426	345	150	20.5
250	700 649 427	466	250	22.8
280	700 649 428	492	250	25.5
315	700 649 429	576	300	28.7
355	700 649 430	608	300	32.3
400	700 649 431	646	300	36.4



PROGEF Branch 45° PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,5

d (mm)	Code	Weight (kg)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	e (mm)
110	700 649 636	2.6	520	150	179.2	340.7	340.7	10.0
125	700 649 637	3.4	520	150	161.1	358.8	358.8	11.4
140	700 649 638	4.7	570	150	173.0	397.0	397.0	12.8
160	700 649 639	6.9	640	150	190.8	449.1	449.1	14.6
180	700 649 640	9.7	700	150	202.7	497.2	497.2	16.4
200	700 649 641	13.5	800	150	238.5	561.4	561.4	18.2
225	700 649 642	17.5	800	150	208.4	591.6	591.6	20.5
250	700 649 643	26.4	1000	250	298.2	701.7	701.7	22.8
280	700 649 644	33.7	1000	250	262.0	738.0	738.0	25.5
315	700 649 645	54.1	1300	300	399.7	900.2	900.2	28.7
355	700 649 646	78.9	1500	300	471.4	1028.5	1028.5	32.3
400	700 649 647	102.3	1500	300	417.1	1082.8	7082.8	36.4



PROGEF Branch 60° PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,5

d (mm)	Code	L1 (mm)	L2 (mm)	e (mm)
110	700 649 660	150	520	10.0
125	700 649 661	150	520	11.4
140	700 649 662	150	570	12.8
160	700 649 663	150	640	14.6
180	700 649 664	150	700	16.4
200	700 649 665	150	800	18.2
225	700 649 666	150	800	20.5
250	700 649 667	250	1000	22.8
280	700 649 668	250	1000	25.5
315	700 649 669	300	1300	28.7
355	700 649 670	300	1500	32.3
400	700 649 671	300	1500	36.4



PROGEF Standard Tee 90° equal SDR11/PN10

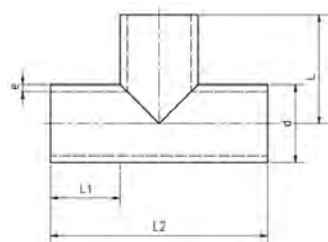
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

¹ Material: PP-R



d	SDR	PN	FM	Code	Weight	L	L1	e
(mm)		(bar)			(kg)	(mm)	(mm)	(mm)
20	11	10	IR	727 208 506	0.011	38	21	1.9
25	11	10	IR	727 208 507	0.018	42	21	2.3
32	11	10	IR	727 208 508	0.032	46	21	2.9
40	11	10	IR	727 208 509	0.062	51	23	3.7
50	11	10	IR	727 208 510	0.105	58	22	4.6
63	11	10	IR	727 208 511	0.186	66	20	5.8
75	11	10	IR	727 208 512	0.293	75	20	6.8
90	11	10	IR	727 208 513	0.521	90	20	8.2
110	11	10	IR	727 208 514	0.928	110	20	10.0
125	11	10	IR	727 208 515	1.347	125	25	11.4
140	11	10	IR	727 208 516	1.923	140	28	12.7
160	11	10	IR	727 208 517	2.844	160	28	14.6
180	11	10	IR	727 208 518	5.475	215	94	16.4
200	11	10	IR	727 208 519	5.579	200	35	18.2
225	11	10	IR	727 208 520	7.812	220	35	20.5
250	11	10	IR	727 208 521	10.400	227	68	22.7
280	11	10	IR	727 208 522	15.170	267	87	25.4
315	11	10	IR	727 208 523	20.330	283	86	28.6
1 355	11	10	--	727 208 524	31.100	345	105	32.2
1 400	11	10	--	727 208 525	40.900	365	105	36.3
1 450	11	10	--	727 208 526	60.300	425	135	40.9
1 500	11	10	--	727 208 527	81.900	470	155	45.4



PROGEF Tee 90°, equal, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,6
- big dimensions on request

d	Code	L	L1	L2	e
(mm)		(mm)	(mm)	(mm)	(mm)
225	700 649 481	265	150	530	20.5
250	700 649 482	375	250	750	22.8
280	700 649 483	390	250	780	25.5
315	700 649 484	460	300	920	28.7
355	700 649 485	480	300	960	32.3
400	700 649 486	500	300	1000	36.4

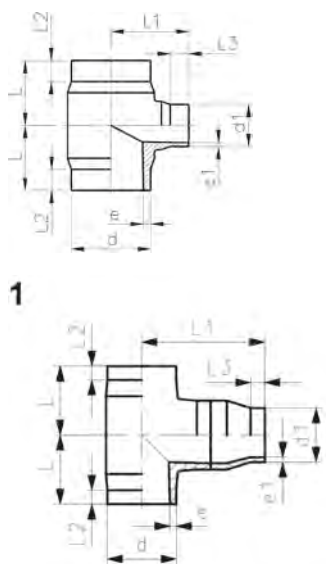


PROGEF Standard Tee 90° reduced SDR11/PN10

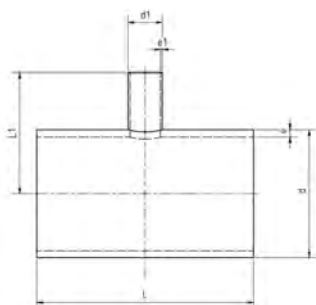
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

¹with IR welded reducer



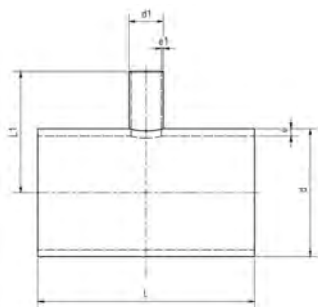
	d	d1	SDR	PN	FM	Code	Weight	L	L1	L2	L3	e	e1
	(mm)	(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
	63	32	11	10	IR	727 208 351	0.161	65	70	25	25	5.8	2.9
	63	40	11	10	IR	727 208 350	0.165	65	70	25	25	5.8	3.7
	63	50	11	10	IR	727 208 352	0.170	65	70	25	25	5.8	4.6
	75	32	11	10	IR	727 208 353	0.238	70	75	25	25	6.8	2.9
	75	50	11	10	IR	727 208 354	0.249	70	75	25	25	6.8	4.6
	75	63	11	10	IR	727 208 355	0.258	70	75	25	25	6.8	5.8
	90	50	11	10	IR	727 208 357	0.420	80	85	25	25	8.2	4.6
	90	63	11	10	IR	727 208 358	0.428	80	85	25	25	8.2	5.8
	90	75	11	10	IR	727 208 359	0.430	80	85	25	25	8.2	6.8
	110	32	11	10	IR	727 208 360	0.652	90	95	30	25	10.0	2.9
	110	50	11	10	IR	727 208 361	0.659	90	95	30	25	10.0	4.6
	110	63	11	10	IR	727 208 362	0.665	90	95	30	25	10.0	5.8
	110	75	11	10	IR	727 208 363	0.681	90	95	30	25	10.0	6.8
	110	90	11	10	IR	727 208 364	0.701	90	95	30	25	10.0	8.2
1	125	63	11	10	IR	727 208 365	1.680	125	230	25	16	11.4	5.8
1	125	90	11	10	IR	727 208 066	1.700	125	225	25	40	11.4	8.2
1	125	110	11	10	IR	727 208 367	1.700	125	217	25	30	11.4	10.0
1	140	75	11	10	IR	727 208 068	2.400	140	245	28	41	12.7	6.8
1	140	90	11	10	IR	727 208 069	2.358	140	240	28	40	12.7	8.2
	160	63	11	10	IR	727 208 371	2.130	142	135	50	30	14.6	5.8
	160	75	11	10	IR	727 208 372	2.143	142	135	50	30	14.6	6.8
	160	90	11	10	IR	727 208 373	2.148	142	135	50	30	14.6	8.2
1	140	110	11	10	IR	727 208 370	2.380	140	242	28	33	12.7	10.0
	160	110	11	10	IR	727 208 374	2.186	142	135	50	30	14.6	10.0
	160	125	11	10	IR	727 208 075	3.600	160	272	28	32	14.6	11.4
1	200	160	11	10	IR	727 208 385	6.632	200	332	35	40	18.2	14.6
	200	180	11	10	IR	727 208 086	6.900	200	335	35	45	18.2	16.4
	225	90	11	10	IR	727 208 388	4.576	155	165	40	30	20.5	8.2
	225	110	11	10	IR	727 208 389	4.624	155	165	40	30	20.5	10.0
	225	160	11	10	IR	727 208 391	4.685	155	165	40	30	20.5	14.6
	250	160	11	10		727 208 093	12.500	227	387	68	53	22.7	14.6



PROGEF Tee 90°, reduced, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,6
- big dimensions on request

d	d1	Code	L	L1	e	e1
(mm)	(mm)		(mm)	(mm)	(mm)	(mm)
225	63	700 649 493	363	238	20.5	5.8
225	75	700 649 494	375	238	20.5	6.9
225	90	700 649 495	390	238	20.5	8.2
225	110	700 649 496	410	238	20.5	10.0
225	125	700 649 497	425	238	20.5	11.4
225	140	700 649 498	440	238	20.5	12.8
225	160	700 649 499	460	238	20.5	14.6
250	75	700 649 500	475	250	22.8	6.9
250	90	700 649 501	490	250	22.8	8.2
250	110	700 649 502	510	250	22.8	10.0
250	125	700 649 503	525	250	22.8	11.4
250	140	700 649 504	540	250	22.8	12.8



d (mm)	d1 (mm)	Code	L (mm)	L1 (mm)	e (mm)	e1 (mm)
250	160	700 649 505	560	250	22.8	14,6
250	180	700 649 506	580	275	22.8	16,4
280	75	700 649 507	475	265	25.5	6,9
280	90	700 649 508	490	265	25.5	8,2
280	110	700 649 509	510	265	25.5	10,0
280	125	700 649 510	525	265	25.5	11,4
280	140	700 649 511	540	265	25.5	12,8
280	160	700 649 512	560	265	25.5	14,6
280	180	700 649 513	580	290	25.5	16,4
280	200	700 649 514	600	290	25.5	18,2
315	90	700 649 515	490	283	28.7	8,2
315	110	700 649 516	510	283	28.7	10,0
315	125	700 649 517	525	283	28.7	11,4
315	140	700 649 518	540	283	28.7	12,8
315	160	700 649 519	560	283	28.7	14,6
315	180	700 649 520	580	308	28.7	16,4
315	200	700 649 521	600	308	28.7	18,2
315	225	700 649 523	625	308	28.7	20,5
355	110	700 649 524	510	303	32.3	10,0
355	125	700 649 525	525	303	32.3	11,4
355	140	700 649 526	540	303	32.3	12,8
355	160	700 649 527	560	303	32.3	14,6
355	180	700 649 528	580	328	32.3	16,4
355	200	700 649 529	600	328	32.3	18,2
355	225	700 649 530	625	328	32.3	20,5
355	250	700 649 531	650	378	32.3	22,8
400	110	700 649 532	510	325	36.4	10,0
400	125	700 649 533	525	325	36.4	11,4
400	140	700 649 534	540	325	36.4	12,8
400	160	700 649 535	560	325	36.4	14,6
400	180	700 649 536	580	350	36.4	16,4
400	200	700 649 537	600	350	36.4	18,2
400	225	700 649 538	625	350	36.4	20,5
400	250	700 649 539	650	400	36.4	22,8
400	280	700 649 540	680	400	36.4	25,5

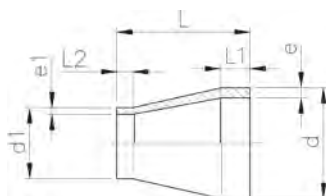


PROGEF Standard reducer SDR11/PN10

Model:

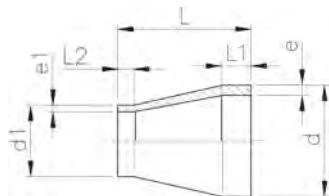
- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

Material: PP-R

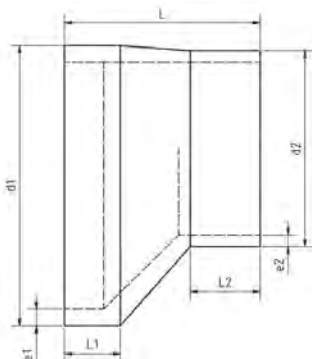
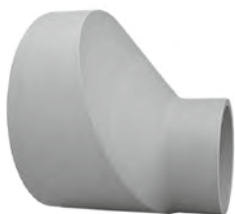


d (mm)	d1 (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
25	20	11	10	IR	727 908 537	0.007	50	20	20	2.3	1.9
32	20	11	10	IR	727 908 542	0.010	50	20	20	2.9	1.9
32	25	11	10	IR	727 908 541	0.010	50	20	20	2.9	2.3
40	20	11	10	IR	727 908 548	0.016	58	20	23	3.7	1.9
40	25	11	10	IR	727 908 547	0.016	55	20	20	3.7	2.3
40	32	11	10	IR	727 908 546	0.018	55	20	20	3.7	2.9
50	25	11	10	IR	727 908 554	0.024	60	20	20	4.6	2.3
50	32	11	10	IR	727 908 553	0.027	60	20	20	4.6	2.9
50	40	11	10	IR	727 908 552	0.030	60	20	20	4.6	3.7
63	32	11	10	IR	727 908 560	0.043	65	20	20	5.8	2.9
63	40	11	10	IR	727 908 559	0.047	65	20	20	5.8	3.7
63	50	11	10	IR	727 908 558	0.051	65	20	20	5.8	4.6
75	40	11	10	IR	727 908 566	0.062	68	20	20	6.8	3.7
75	50	11	10	IR	727 908 565	0.071	65	20	20	6.8	4.6

table continued on the next page



d	d1	SDR	PN	FM	Code	Weight	L	L1	L2	e	e1
(mm)	(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
90	63	11	10	IR	727 908 571	0.115	75	22	19	8.2	5.8
75	63	11	10	IR	727 908 564	0.075	65	20	20	6.8	5.8
90	75	11	10	IR	727 908 570	0.130	75	22	19	8.2	6.8
110	63	11	10	IR	727 908 572	0.201	90	28	28	10.6	6.2
110	75	11	10	IR	727 908 577	0.215	90	28	18	10.0	6.8
110	90	11	10	IR	727 908 576	0.225	90	28	30	10.0	8.2
125	110	11	10	IR	727 908 580	0.335	100	32	30	11.4	10.0
140	110	11	10	IR	727 908 585	0.423	110	33	29	12.7	10.0
140	125	11	10	IR	727 908 584	0.462	110	34	30	12.7	11.4
160	110	11	10	IR	727 908 590	0.586	120	39	27	14.6	10.0
160	140	11	10	IR	727 908 588	0.647	120	40	35	14.6	12.7
180	90	11	10	IR	727 908 149	0.800	145	50	40	16.4	8.8
180	110	11	10	IR	727 908 150	1.010	150	50	40	16.4	10.0
180	125	11	10	IR	727 908 151	0.985	145	52	40	16.4	11.4
180	140	11	10	IR	727 908 152	0.995	135	51	47	16.4	12.7
180	160	11	10	IR	727 908 153	1.020	135	55	52	16.4	14.6
200	160	11	10	IR	727 908 592	1.149	145	50	40	18.2	14.6
200	180	11	10	IR	727 908 158	1.300	145	50	45	18.2	16.4
225	110	11	10	IR	727 908 595	1.485	160	55	35	20.5	10.0
225	160	11	10	IR	727 908 596	1.590	160	55	40	20.5	14.6
225	180	11	10	IR	727 908 162	1.770	163	60	58	20.5	16.4
225	200	11	10	IR	727 908 597	1.723	160	55	50	20.5	18.2
250	160	11	10	IR	727 908 165	2.140	170	63	53	22.7	14.6
250	225	11	10	IR	727 908 168	2.750	180	65	65	22.7	20.5
280	225	11	10	IR	727 908 172	3.425	203	72	57	25.4	20.5
280	250	11	10	IR	727 908 173	1.980	206	75	60	25.4	22.7
315	225	11	10	IR	727 908 176	5.110	237	84	60	28.6	20.5
315	250	11	10	IR	727 908 177	5.105	231	86	63	28.6	22.7
315	280	11	10	IR	727 908 178	5.130	222	80	70	28.6	25.4
1	355	250	11	10	727 908 963	5.490	245	90	60	32.3	22.7
1	355	280	11	10	727 908 962	5.462	245	90	70	32.2	25.4
1	355	315	11	10	727 908 961	3.700	245	90	80	32.2	28.6
1	400	315	11	10	727 908 966	5.300	215	95	80	36.3	28.6
1	400	355	11	10	727 908 965	4.800	260	95	90	36.3	32.2
	450	280	11	10	727 908 960	9.000	230	60	70	40.9	25.4
	450	315	11	10	727 908 948	8.000	230	60	80	40.9	28.6
	450	355	11	10	727 908 950	7.400	230	60	90	40.9	32.2
	450	400	11	10	727 908 951	6.000	230	60	95	40.9	36.3
	500	315	11	10	727 908 953	12.000	200	60	80	45.4	28.6
	500	355	11	10	727 908 954	10.800	230	60	90	45.4	32.2
	500	400	11	10	727 908 956	10.000	230	60	95	45.4	36.3
	500	450	11	10	727 908 964	8.300	230	60	60	45.4	40.9



PROGEF Reducing Bushes excentric, PP-H SDR11

Model:

- Machined
- Conventional butt-welding according to DVS 2207

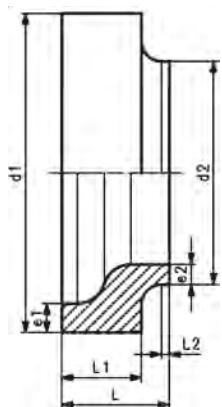
d1 (mm)	d2 (mm)	PN (bar)	Code	L2 (mm)	L (mm)	e2 (mm)	L1 (mm)	e1 (mm)
63	50	10	700 647 700	35	120	4,6	35	5,8
75	50	10	700 647 701	35	120	4,6	40	6,8
75	63	10	700 647 702	35	120	5,8	40	6,8
90	63	10	700 647 703	50	140	5,8	50	8,2
90	75	10	700 647 704	50	140	6,8	50	8,2
110	75	10	700 647 705	50	140	6,8	50	10
110	90	10	700 647 706	50	140	8,2	50	10
125	90	10	700 647 707	50	140	5,1	50	11,4
125	110	10	700 647 708	50	140	10	50	11,4
140	90	10	700 647 709	50	140	8,2	50	12,7
140	110	10	700 647 710	50	140	10	50	12,7
160	90	10	700 647 711	54	140	8,2	50	14,6
160	110	10	700 647 712	45	120	10	40	14,6
160	125	10	700 647 713	44	110	11,4	40	14,6
160	140	10	700 647 714	33	90	12,7	40	14,6
180	125	10	700 647 715	52	130	11,4	40	16,4
180	140	10	700 647 716	41	110	12,7	40	16,4
180	160	10	700 647 717	33	90	16,4	40	16,4
200	140	10	700 647 718	50	140	12,7	40	18,2
200	160	10	700 647 719	41	120	14,6	40	18,2
200	180	10	700 647 720	43	100	16,4	40	18,2
225	160	10	700 647 721	57	140	14,6	40	20,5
225	180	10	700 647 722	48	120	16,4	40	20,5
225	200	10	700 647 723	40	100	18,2	40	20,5
250	180	10	700 647 724	54	150	16,4	40	22,7
250	200	10	700 647 725	55	130	18,2	40	22,7
250	225	10	700 647 726	40	110	20,5	40	22,7
280	200	10	700 647 727	58	160	18,2	40	25,4
280	225	10	700 647 728	52	130	20,5	40	25,4
280	250	10	700 647 729	47	110	22,7	40	25,4
315	225	10	700 647 730	62	160	20,5	40	28,6
315	250	10	700 647 731	57	140	22,7	40	28,6
315	280	10	700 647 732	54	120	25,4	40	28,6
355	250	10	700 647 733	74	180	22,7	40	32,2
355	280	10	700 647 734	61	150	25,4	40	32,2
355	315	10	700 647 735	51	120	28,6	40	32,2
400	280	10	700 647 736	85	200	25,4	40	36,3
400	315	10	700 647 737	75	170	28,6	40	36,3
400	355	10	700 647 738	58	130	32,2	40	36,3
450	315	10	700 647 739	86	210	28,6	40	40,9
450	355	10	700 647 740	79	180	32,2	40	40,9
450	400	10	700 647 741	65	140	36,3	40	40,9
500	315	10	700 647 742	107	260	28,6	40	45,4
500	355	10	700 647 743	91	220	32,2	40	45,4
500	400	10	700 647 744	86	190	36,3	40	45,4
500	450	10	700 647 745	65	140	40,9	40	45,4
560	450	10	700 647 746	91	200	40,9	40	50,8
560	500	10	700 647 747	70	150	45,4	40	50,8
630	500	10	700 647 748	99	220	45,4	40	57,2
630	560	10	700 647 749	84	170	50,8	40	57,2



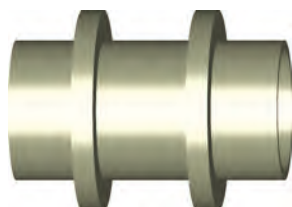
PROGEF Standard Flush style reducer SDR11/PN10

Model:

- Material: PP-H
- Flush style design
- Conventional butt-welding according to DVS 2207
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)



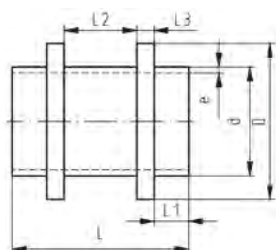
d1 (mm)	d2 (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e1 (mm)	e2 (mm)
355	225	350	11	10	727 909 809	4.983	130	95	10	32.2	20.5
355	250		11	10	727 909 810	3.574	115	80	10	32.2	22.7
355	280		11	10	727 909 811	3.856	115	80	10	32.2	25.4
355	315		11	10	727 909 812	3.952	115	80	15	32.2	28.6
400	225	400	11	10	727 909 816	7.587	145	110	10	36.3	20.5
400	250	400	11	10	727 909 817	6.955	140	105	10	36.3	22.7
400	280	400	11	10	727 909 818	6.363	135	100	10	36.3	25.4
400	315		11	10	727 909 819	6.149	135	100	10	36.3	28.6
400	355		11	10	727 909 820	5.811	135	100	13	36.3	32.2
450	225		11	10	727 909 822	11.398	165	125	10	40.9	20.5
450	250		11	10	727 909 823	10.561	160	120	10	40.9	22.7
450	280		11	10	727 909 824	9.149	150	110	15	40.9	25.4
450	315		11	10	727 909 825	8.660	150	110	15	40.9	28.6
450	355		11	10	727 909 826	8.246	150	110	15	40.9	32.2
450	400		11	10	727 909 827	7.973	150	110	15	40.9	36.3
500	225		11	10	727 909 829	15.293	180	130	10	45.4	20.5
500	250		11	10	727 909 830	15.037	180	130	10	45.4	22.7
500	280		11	10	727 909 831	13.995	175	125	10	45.4	25.4
500	315		11	10	727 909 832	10.404	165	115	10	45.4	28.6
500	355		11	10	727 909 833	10.785	165	115	10	45.4	32.2
500	400		11	10	727 909 834	11.863	165	115	10	45.4	36.3
500	450		11	10	727 909 835	12.042	165	115	25	45.4	40.9



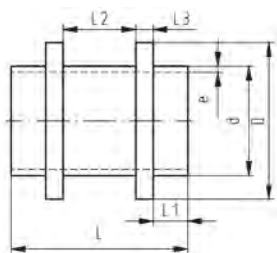
PROGEF Standard Fixpoint fitting SDR11/PN10

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Machined



d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	e (mm)
63	11	10	IR	727 665 520	0.175	122	30	42	10	90	5.8
75	11	10	IR	727 665 521	0.254	122	30	42	10	110	6.8
90	11	10	IR	727 665 522	0.342	122	30	42	10	125	8.2
110	11	10	IR	727 665 523	0.567	142	30	52	15	140	10.0
125	11	10	IR	727 665 524	0.777	152	35	52	15	160	11.4
140	11	10	IR	727 665 525	1.023	162	40	52	15	180	12.7
160	11	10	IR	727 665 526	1.292	162	40	52	15	200	14.6
180	11	10	IR	727 665 527	1.917	182	45	52	20	225	16.4
200	11	10	IR	727 665 528	2.365	182	45	52	20	250	18.2
225	11	10	IR	727 665 529	3.294	192	45	52	25	280	20.5
250	11	10	IR	727 665 530	3.695	212	50	62	25	280	22.7
280	11	10	IR	727 665 531	4.997	222	50	62	30	315	25.4
315	11	10	IR	727 665 532	6.348	222	50	62	30	355	28.6



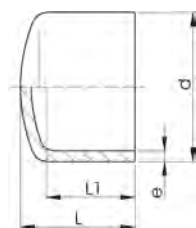
d	SDR	PN	FM	Code	Weight	L	L1	L2	L3	D	e
(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
355	11	10		727 665 533	7.405	192	30	62	35	400	32.2
400	11	10		727 665 534	10.432	212	30	72	40	450	36.3
450	11	10		727 665 535	14.153	232	35	72	45	500	40.9
500	11	10		727 665 536	19.414	252	40	72	50	560	45.4



PROGEF Standard End cap SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible



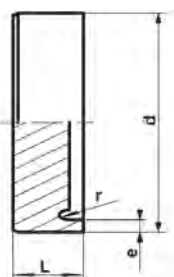
d	SDR	PN	FM	Code	Weight	L	L1	e
(mm)		(bar)			(kg)	(mm)	(mm)	(mm)
20	11	10	IR	727 968 106	0.005	49	42	1.9
25	11	10	IR	727 968 107	0.007	52	42	2.3
32	11	10	IR	727 968 108	0.016	57	47	2.9
40	11	10	IR	727 968 109	0.023	64	51	3.7
50	11	10	IR	727 968 110	0.048	72	59	4.6
63	11	10	IR	727 968 111	0.087	86	67	5.8
75	11	10	IR	727 968 112	0.138	94	73	6.8
90	11	10	IR	727 968 113	0.222	112	83	8.2
110	11	10	IR	727 968 114	0.375	124	90	10.0
125	11	10	IR	727 968 115	0.520	130	94	11.4
140	11	10	IR	727 968 116	0.695	142	99	12.7
160	11	10	IR	727 968 117	1.040	162	109	14.6
180	11	10	IR	727 968 118	1.375	170	113	16.4
200	11	10	IR	727 968 119	1.860	179	117	18.2
225	11	10	IR	727 968 120	2.625	203	127	20.5



PROGEF Standard End cap short SDR11/PN10

Model:

- Material: PP-H
- Machined
- Conventional butt-welding according to DVS 2207



d	SDR	PN	Code	Weight	L	e
(mm)		(bar)		(kg)	(mm)	(mm)
250	11	10	727 968 846	1.900	60	22.7
280	11	10	727 968 847	2.600	65	25.4
315	11	10	727 968 848	3.600	70	28.6
355	11	10	727 968 849	5.100	80	32.2
400	11	10	727 968 850	7.200	85	36.3
450	11	10	727 968 851	10.200	95	40.9
500	11	10	727 968 852	14.000	105	45.4

Butt fusion fittings SDR 17.6



1



2



PROGEF Standard Bend 90° SDR17.6/PN6

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- New code numbers in dimensions d125-d315 not available yet, please refer to the existing code numbers 727018415-727018423.

* Material:PP-R

d	SDR	PN	FM	Type	Code	Weight	L	L1	R	e
(mm)		(bar)				(kg)	(mm)	(mm)	(mm)	(mm)
50	17.6	6	IR	1	727 018 635	0.050	58	21	37.00	3.0
63	17.6	6	IR	1	727 018 636	0.081	66	21	45.00	3.8
75	17.6	6	IR	2	727 018 412	0.128	75	21	71.25	4.8
90	17.6	6	IR	2	727 018 413	0.222	90	22	85.50	5.7
110	17.6	6	IR	2	727 018 414	0.396	110	25	104.50	6.9
125	17.6	6	IR	2	727 018 215	0.625	145	34	126.00	7.1
140	17.6	6	IR	2	727 018 216	0.880	162	38	142.00	8.0
160	17.6	6	IR	2	727 018 217	1.273	183	40	162.00	9.1
180	17.6	6	IR	2	727 018 218	1.720	200	38	182.00	10.2
200	17.6	6	IR	2	727 018 219	2.329	220	40	202.00	11.4
225	17.6	6	IR	2	727 018 220	3.270	245	41	227.00	12.8
250	17.6	6	IR	2	727 018 221	4.629	280	51	252.00	14.2
280	17.6	6	IR	2	727 018 222	6.410	310	52	282.00	15.9
315	17.6	6	IR	2	727 018 223	9.173	350	61	318.00	17.9
*	355	17.6		2	727 018 424	11.640	345	70	330.00	21.2
*	400	17.6		2	727 018 425	15.200	365	70	350.00	23.9
*	450	17.6		2	727 018 426	22.240	425	70	400.00	26.9
*	500	17.6		2	727 018 427	31.020	470	90	445.00	29.8



1



2

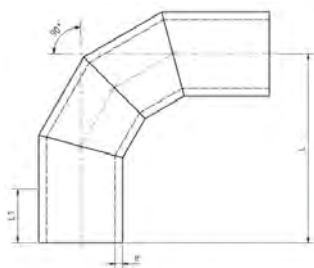


PROGEF Standard Bend 90° SDR17.6/PN6

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

d (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
125	17.6	6	727 018 415	0.556	125	28	116.00	7.1
140	17.6	6	727 018 416	0.785	140	33	131.00	8.0
160	17.6	6	727 018 417	1.156	160	33	151.00	9.1
180	17.6	6	727 018 418	1.619	180	33	171.00	10.2
200	17.6	6	727 018 419	2.208	200	33	190.00	11.4
225	17.6	6	727 018 420	3.039	220	33	210.00	12.8
250	17.6	6	727 018 421	4.359	256	48	232.00	14.2
280	17.6	6	727 018 422	6.696	286	48	262.00	15.9
315	17.6	6	727 018 423	8.580	321	48	297.00	17.9



PROGEF Elbow 90°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	700 649 396	315	150	6.3
125	700 649 397	338	150	7.1
140	700 649 398	360	150	8.0
160	700 649 399	390	150	9.1
180	700 649 400	420	150	10.2
200	700 649 401	450	150	11.4
225	700 649 402	488	150	12.8
250	700 649 403	625	250	14.2
280	700 649 404	670	250	15.9
315	700 649 405	773	300	17.9
355	700 649 406	833	300	20.1
400	700 649 407	900	300	22.7



PROGEF Standard Elbow 45° SDR17.6/PN6

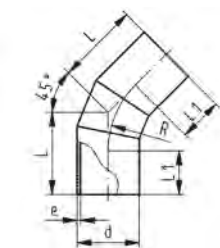
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

1) Material: PP-R

*Machined from S5/SDR11

	d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
*	50	17.6	6	IR	727 158 535	0.042	42	26	2.9
*	63	17.6	6	IR	727 158 536	0.081	47	29	3.6
	75	17.6	6	IR	727 158 412	0.099	49	29	4.3
	90	17.6	6	IR	727 158 413	0.165	57	34	5.1
	110	17.6	6	IR	727 158 414	0.286	70	43	6.3
*	125	17.6	6	IR	727 158 540	0.570	79	48	7.1
*	140	17.6	6	IR	727 158 541	0.721	88	55	8.0
*	160	17.6	6	IR	727 158 542	1.107	100	60	9.1
*	200	17.6	6	IR	727 158 544	2.225	124	75	11.4
*	225	17.6	6	IR	727 158 545	3.194	140	85	12.8
1	250	17.6	6	IR	727 158 546	4.970	225	133	14.2
1	280	17.6	6	IR	727 158 547	7.130	235	143	15.9
1	315	17.6	6	IR	727 158 548	9.600	255	154	17.9

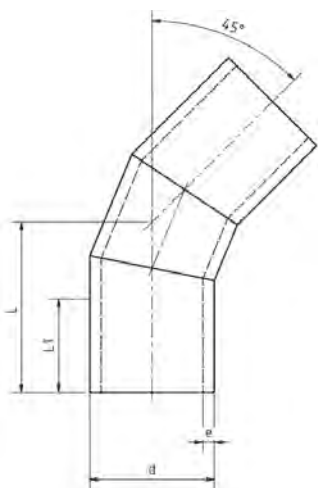


PROGEF Standard Bend 45° SDR17.6/PN6

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8

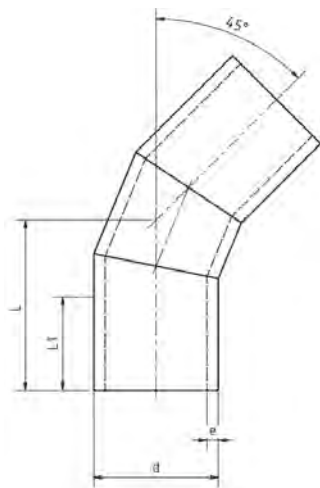
	d (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
	355	17.6	4	727 158 549	21.000	520	300	533	20.1
	400	17.6	4	727 158 550	28.100	548	300	600	22.7
	450	17.6	4	727 158 551	37.400	580	300	675	25.5
	500	17.6	4	727 158 552	52.600	665	350	750	28.4



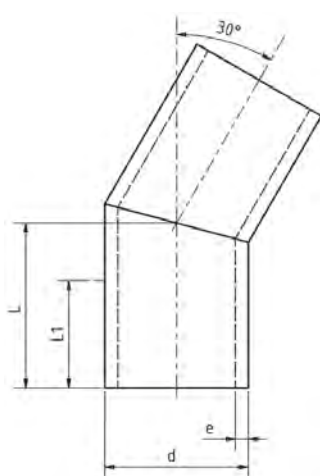
PROGEF Elbow 45°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	700 649 432	218	150	6.3
125	700 649 433	228	150	7.1
140	700 649 434	237	150	8.0
160	700 649 435	249	150	9.1
180	700 649 436	262	150	10.2
200	700 649 437	274	150	11.4
225	700 649 438	290	150	12.8
250	700 649 439	412	250	14.2



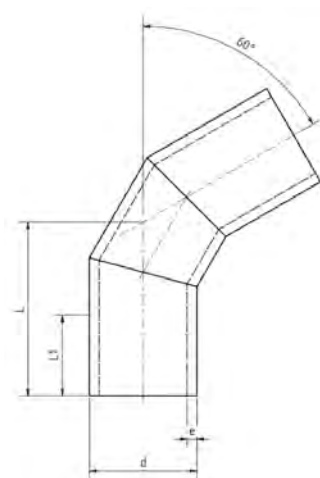
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
280	700 649 440	424	250	15.9
315	700 649 441	498	300	17.9
355	700 649 442	520	300	20.1
400	700 649 443	548	300	22.7



PROGEF Elbow 30°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

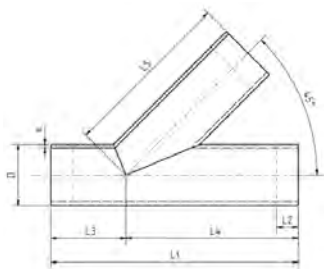
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	700 649 457	194	150	6.3
125	700 649 458	200	150	7.1
140	700 649 459	206	150	8.0
160	700 649 460	214	150	9.1
180	700 649 461	222	150	10.2
200	700 649 462	230	150	11.4
225	700 649 463	241	150	12.8
250	700 649 464	350	250	14.2
280	700 649 465	362	250	15.9
315	700 649 466	428	300	17.9
355	700 649 467	443	300	20.1
400	700 649 468	461	300	22.7



PROGEF Elbow 60°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

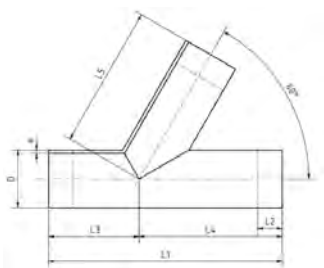
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	700 649 408	245	150	6.3
125	700 649 409	258	150	7.1
140	700 649 410	271	150	8.0
160	700 649 411	288	150	9.1
180	700 649 412	305	150	10.2
200	700 649 413	323	150	11.4
225	700 649 414	345	150	12.8
250	700 649 415	466	250	14.2
280	700 649 416	492	250	15.9
315	700 649 417	576	300	17.9
355	700 649 418	608	300	20.1
400	700 649 419	646	300	22.7



PROGEF Branch 45°, PP-H S8/SDR17,6

- For butt- and electro fusion
- Reduction factor = 0,5

d (mm)	Code	Weight (kg)	L1 (mm)	L2 (mm)	e (mm)
110	700 649 648	2.190	150	520	6.3
125	700 649 649	5.985	150	520	7.1
140	700 649 650	3.220	150	570	8.0
160	700 649 651	4.280	150	640	9.1
180	700 649 652	6.928	150	700	10.2
200	700 649 653	7.275	150	800	11.4
225	700 649 654	7.639	150	800	12.8
250	700 649 655	8.020	250	1000	14.2
280	700 649 656	8.421	250	1000	15.9
315	700 649 657	8.843	300	1300	17.9
355	700 649 658	9.285	300	1500	20.1
400	700 649 659	9.749	300	1500	22.7



PROGEF Branch 60° PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,5

d (mm)	Code	L1 (mm)	L2 (mm)	e (mm)
110	700 649 672	150	520	6.3
125	700 649 673	150	520	7.1
140	700 649 674	150	570	8.0
160	700 649 675	150	640	9.1
180	700 649 676	150	700	10.2
200	700 649 677	150	800	11.4
225	700 649 678	150	800	12.8
250	700 649 679	250	1000	14.2
280	700 649 680	250	1000	15.9
315	700 649 681	300	1300	17.9
355	700 649 682	300	1500	20.1
400	700 649 683	300	1500	22.7



PROGEF Standard Tee 90° equal SDR17.6/PN6

Model:

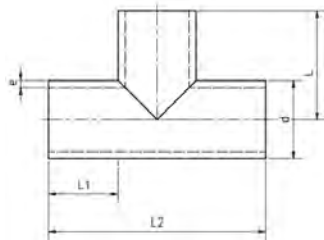
- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

Note:

¹Material: PP-R



	d	SDR	PN	FM	Code	Weight	L	L1	e
	(mm)		(bar)			(kg)	(mm)	(mm)	(mm)
	50	17.6	6	IR	727 208 410	0.084	92	57	2.9
	63	17.6	6	IR	727 208 411	0.172	107	64	3.6
	75	17.6	6	IR	727 208 412	0.212	75	20	4.3
	90	17.6	6	IR	727 208 413	0.396	90	20	5.1
	110	17.6	6	IR	727 208 414	0.705	110	20	6.3
	125	17.6	6	IR	727 208 415	1.154	125	50	7.1
	140	17.6	6	IR	727 208 416	1.765	160	63	8.0
	160	17.6	6	IR	727 208 417	2.335	163	60	9.1
	180	17.6	6	IR	727 208 418	4.000	217	97	10.2
	200	17.6	6	IR	727 208 419	5.060	220	94	11.4
	225	17.6	6	IR	727 208 420	6.870	227	75	12.8
	250	17.6	6	IR	727 208 421	7.410	225	67	14.2
	280	17.6	6	IR	727 208 422	10.680	266	88	15.9
	315	17.6	6	IR	727 208 423	14.105	283	86	17.9
1	355	17.6	6		727 208 424	20.800	345	105	20.1
1	400	17.6	6		727 208 425	27.200	365	105	22.7
1	450	17.6	6		727 208 426	47.300	425	135	26.7
1	500	17.6	6		727 208 427	54.800	470	155	29.7



Tees 90°, equal, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,6
- big dimensions on request

d	Code	L	L1	L2	e
(mm)		(mm)	(mm)	(mm)	(mm)
225	700 649 487	265	150	530	12.8
250	700 649 488	375	250	750	14.2
280	700 649 489	390	250	780	15.9
315	700 649 490	460	300	920	17.9
355	700 649 491	480	300	960	20.1
400	700 649 492	500	300	1000	22.7



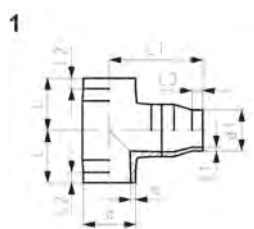
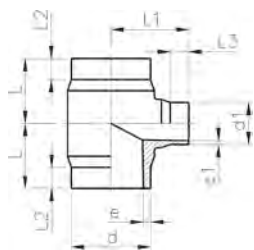
PROGEF Standard Tee 90° reduced SDR17.6/PN6

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

¹with IR welded reducer

* Branch SDR11



	d	d1	SDR	PN	FM	Code	Weight	L	L1	L2	L3	e	e1
	(mm)	(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
*	63	32	17.6	6	IR	727 208 301	0.120	65	70	25	25	3.6	2,9
	63	50	17.6	6	IR	727 208 302	0.124	65	70	25	25	3.6	2,9
*	75	32	17.6	6	IR	727 208 303	0.178	70	75	25	25	4.3	2,9
	75	50	17.6	6	IR	727 208 304	0.182	70	75	25	25	4.3	2,9
	75	63	17.6	6	IR	727 208 305	0.190	70	75	25	25	4.3	3,6
	90	50	17.6	6	IR	727 208 307	0.305	80	85	25	25	5.1	2,9
	90	63	17.6	6	IR	727 208 308	0.315	80	85	25	25	5.1	3,6
	90	75	17.6	6	IR	727 208 309	0.320	80	85	25	25	5.1	4,3
*	110	32	17.6	6	IR	727 208 310	0.489	90	95	30	25	6.3	2,9
	110	50	17.6	6	IR	727 208 311	0.490	90	95	30	25	6.3	2,9
	110	63	17.6	6	IR	727 208 312	0.491	90	95	30	25	6.3	3,6
	110	75	17.6	6	IR	727 208 313	0.500	90	95	30	25	6.3	4,3
	110	90	17.6	6	IR	727 208 314	0.514	90	95	30	25	6.3	5,1
1	125	63	17.6	6	IR	727 208 015	1.300	125	212	50	20	7.1	3,6
1	125	90	17.6	6	IR	727 208 016	1.400	125	229	50	41	7.1	5,1
1	125	110	17.6	6	IR	727 208 017	1.400	125	218	50	42	7.1	6,3
1	140	75	17.6	6	IR	727 208 018	2.000	160	255	63	41	8.0	4,3
1	140	90	17.6	6	IR	727 208 019	2.100	160	251	63	42	8.0	5,1
1	140	110	17.6	6	IR	727 208 020	2.100	160	240	63	43	8.0	6,3
	160	63	17.6	6	IR	727 208 321	1.535	142	135	50	30	9.1	3,6
	160	75	17.6	6	IR	727 208 322	1.550	142	135	50	30	9.1	4,3
	160	90	17.6	6	IR	727 208 323	1.567	142	135	50	30	9.1	5,1
	160	110	17.6	6	IR	727 208 324	1.577	142	135	50	30	9.1	6,3
1	160	125	17.6	6	IR	727 208 025	2.800	163	275	60	32	9.1	7,1
1	200	160	17.6	6	IR	727 208 035	5.900	220	325	94	40	11.4	9,1
1	200	180	17.6	6	IR	727 208 036	6.000	220	325	94	54	11.4	10,2
	225	90	17.6	6	IR	727 208 338	3.350	155	165	40	30	12.8	5,1
	225	110	17.6	6	IR	727 208 339	3.330	155	165	40	30	12.8	6,3
	225	160	17.6	6	IR	727 208 341	3.427	155	165	40	30	12.8	9,1
1	250	160	17.6	6	IR	727 208 043	8.900	225	389	67	52	14.2	9,1

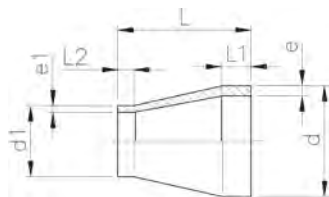


PROGEF Standard reducer S8.3/SDR17.6

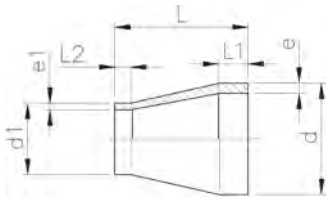
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

¹ Material: PP-R



	d	d1	FM	Code	Weight	L	L1	L2	e	e1
	(mm)	(mm)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
	50	40	IR	727 908 949	0.010	55	12	12	2.9	2,3
	63	40	IR	727 908 901	0.020	65	16	12	3.6	2,3
	63	50	IR	727 908 900	0.020	65	16	12	3.6	2,9
	75	40	IR	727 908 904	0.041	65	20	20	4.3	2,3
	75	50	IR	727 908 465	0.047	65	20	20	4.8	3,2
	75	63	IR	727 908 464	0.053	65	20	20	4.3	3,6
	90	63	IR	727 908 471	0.079	75	22	19	5.1	3,6
	90	75	IR	727 908 470	0.090	75	21	19	5.1	4,3
	110	63	IR	727 908 472	0.149	90	28	28	6.9	4,0
	110	75	IR	727 908 477	0.149	90	28	18	6.3	4,3

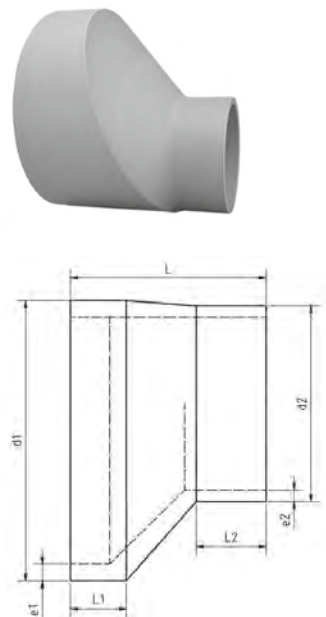


	d	d1	FM	Code	Weight	L	L1	L2	e	e1
	(mm)	(mm)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
	110	90	IR	727 908 476	0.158	90	28	20	6.3	5,1
	125	110	IR	727 908 912	0.190	108	32	28	7.1	6,3
	140	110	IR	727 908 917	0.322	115	35	28	8.0	6,3
	140	125	IR	727 908 916	0.353	115	35	32	8.0	7,1
	160	110	IR	727 908 922	0.454	124	40	28	9.1	6,3
	160	140	IR	727 908 920	0.482	124	40	35	9.1	8,0
	180	90	IR	727 908 928	0.866	157	45	22	10.2	5,1
	180	110	IR	727 908 927	0.698	157	45	28	10.2	6,3
	180	125	IR	727 908 926	0.596	136	45	32	10.2	7,1
	180	140	IR	727 908 925	0.632	136	45	35	10.2	8,0
	180	160	IR	727 908 924	0.677	136	45	40	10.2	9,1
	200	160	IR	727 908 930	0.805	151	50	40	11.4	9,1
	200	180	IR	727 908 929	0.895	151	50	45	11.4	10,2
	225	110	IR	727 908 936	1.001	171	55	40	12.8	6,3
	225	160	IR	727 908 934	1.082	171	55	45	12.8	9,1
	225	180	IR	727 908 933	1.337	171	55	45	12.8	10,2
	225	200	IR	727 908 932	1.184	184	60	40	12.8	11,4
	250	160	--	727 908 940	2.062	194	60	40	14.2	9,1
	250	225	--	727 908 937	1.792	182	60	55	14.2	12,8
1	280	225	--	727 908 942	1.365	105	30	20	15.9	12,8
1	280	250	--	727 908 941	0.858	70	30	18	15.9	14,2
1	315	225	--	727 908 947	2.062	130	30	20	17.9	12,8
1	315	250	--	727 908 946	1.578	100	30	20	17.9	14,2
1	315	280	--	727 908 945	1.156	63	30	18	17.9	15,9
1	355	250	--	727 908 959	3.000	245	90	60	20.1	14,2
1	355	280	--	727 908 958	2.700	245	90	70	20.1	15,9
1	355	315	--	727 908 957	2.400	245	90	80	20.1	17,9
1	400	315	--	727 908 972	3.600	260	95	80	22.7	17,9
1	400	355	--	727 908 971	3.100	260	95	90	22.7	20,1
	450	280	--	727 908 967	6.000	230	60	70	25.5	15,9
	450	315	--	727 908 984	5.400	230	60	80	25.5	17,9
	450	355	--	727 908 988	5.000	230	60	90	25.5	20,1
	450	400	--	727 908 989	5.000	230	60	95	25.5	22,7
	500	315	--	727 908 993	8.100	230	60	80	28.4	17,9
	500	355	--	727 908 994	7.300	230	60	95	28.4	20,1
	500	400	--	727 908 998	6.700	230	60	95	28.4	22,7
	500	450	--	727 908 999	5.500	230	60	60	28.4	25,5

PROGEF Reducing Bushes excentric, PP-H SDR17.6

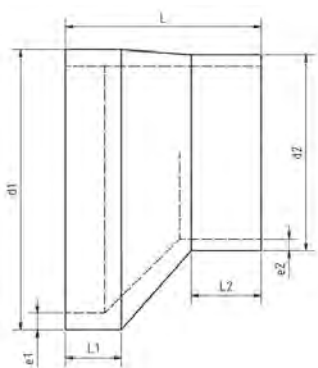
Model:

- Machined
- Conventional butt-welding according to DVS 2207



d1	d2	PN	Code	Weight	e1	L1	L	L2	e2
(mm)	(mm)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
63	50	6	700 647 750	0.020	3,6	35	120	35	2,9
75	50	6	700 647 751	0.041	4,3	40	120	35	2,9
75	63	6	700 647 752	0.048	4,3	40	120	35	3,6
90	63	6	700 647 753	0.079	5,1	50	140	50	3,6
90	75	6	700 647 754	0.090	5,1	50	140	50	4,3
110	75	6	700 647 755	1.000	6,3	50	140	50	4,3
110	90	6	700 647 756	0.158	6,3	50	140	50	5,1
125	90	6	700 647 757	0.190	7,1	50	140	50	5,1
125	110	6	700 647 758	0.215	7,1	50	140	50	6,3
140	90	6	700 647 759	0.308	8,0	50	140	50	5,1
140	110	6	700 647 760	0.338	8,0	50	140	50	6,3
160	90	6	700 647 761	1.000	9,5	50	140	54	5,4
160	110	6	700 647 762	0.454	9,5	40	120	45	6,6
160	125	6	700 647 763	0.071	9,5	40	110	44	7,4
160	140	6	700 647 764	0.482	9,5	40	90	33	8,3

table continued on the next page



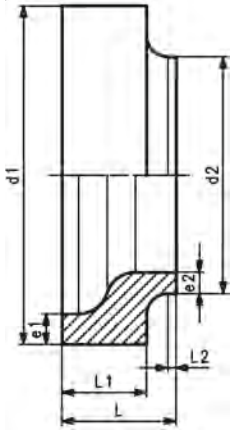
d1 (mm)	d2 (mm)	PN (bar)	Code	Weight (kg)	e1 (mm)	L1 (mm)	L (mm)	L2 (mm)	e2 (mm)
180	125	6	700 647 765	0.596	10,7	40	130	52	7,4
180	140	6	700 647 766	0.632	10,7	40	110	41	8,3
180	160	6	700 647 767	0.677	10,7	40	90	33	9,5
200	140	6	700 647 768	0.805	11,9	40	140	50	8,3
200	160	6	700 647 769	0.822	11,9	40	120	41	9,5
200	180	6	700 647 770	0.894	11,9	40	100	43	10,7
225	160	6	700 647 771	1.083	13,4	40	140	57	9,5
225	180	6	700 647 772	1.337	13,4	40	120	48	10,7
225	200	6	700 647 773	1.884	13,4	40	100	40	11,9
250	180	6	700 647 774	2.100	14,8	40	150	54	10,7
250	200	6	700 647 775	2.189	14,8	40	130	55	11,9
250	225	6	700 647 776	2.370	14,8	40	110	40	13,4
280	200	6	700 647 777	2.820	16,6	40	160	58	11,9
280	225	6	700 647 778	2.854	16,6	40	130	52	13,4
280	250	6	700 647 779	2.980	16,6	40	110	47	14,8
315	225	6	700 647 780	3.010	18,7	40	160	62	13,4
315	250	6	700 647 781	3.158	18,7	40	140	57	14,8
315	280	6	700 647 782	3.500	18,7	40	120	54	16,6
355	250	6	700 647 783	1.000	21,1	40	180	74	14,8
355	280	6	700 647 784	3.800	21,1	40	150	61	16,6
355	315	6	700 647 785	4.200	21,1	40	120	51	18,7
400	280	6	700 647 786	5.580	23,7	40	200	85	16,6
400	315	6	700 647 787	5.800	23,7	40	170	75	18,7
400	355	6	700 647 788	6.310	23,7	40	130	58	21,1
450	315	6	700 647 789	6.540	26,7	40	210	86	18,7
450	355	6	700 647 790	7.210	26,7	40	180	79	21,1
450	400	6	700 647 791	7.900	26,7	40	140	65	23,7
500	315	6	700 647 792	8.450	29,7	40	260	107	18,7
500	355	6	700 647 793	9.124	29,7	40	220	91	21,1
500	400	6	700 647 794	9.450	29,7	40	190	86	23,7
500	450	6	700 647 795	11.850	29,7	40	140	65	26,7
560	450	6	700 647 796	12.600	33,2	40	200	91	26,7
560	500	6	700 647 797	13.650	33,2	40	150	70	29,7
630	500	6	700 647 798	14.800	37,4	40	220	99	29,7
630	560	6	700 647 799	15.240	37,4	40	170	84	33,2



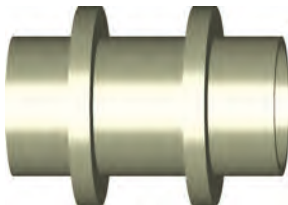
PROGEF Standard Flush style reducer SDR17.6/PN6

Model:

- Material: PP-H
- Flush style design
- Conventional butt-welding according to DVS 2207
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)



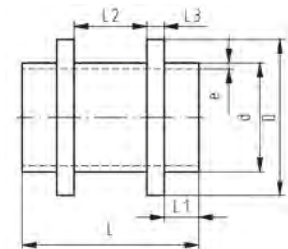
d1 (mm)	d2 (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e1 (mm)	e2 (mm)
355	225	17.6	6	727 909 859	3.736	120	85	10	21.1	13.4
355	250	17.6	6	727 909 860	3.160	115	80	10	20.1	14.2
355	280	17.6	6	727 909 861	2.946	115	80	10	20.1	15.9
355	315	17.6	6	727 909 862	2.587	115	80	15	20.1	17.9
400	225	17.6	6	727 909 866	6.000	135	100	10	23.7	13.4
400	250	17.6	6	727 909 867	5.732	135	100	10	23.7	14.8
400	280	17.6	6	727 909 868	5.388	135	100	10	23.7	16.6
400	315	17.6	6	727 909 869	4.880	135	100	10	22.7	17.9
400	355	17.6	6	727 909 870	4.395	135	100	13	22.7	20.1
450	225	17.6	6	727 909 872	8.881	150	110	10	26.7	13.4
450	250	17.6	6	727 909 873	8.577	150	110	10	26.7	14.8
450	280	17.6	6	727 909 874	7.684	150	100	15	25.5	15.9
450	315	17.6	6	727 909 875	7.005	150	100	15	25.5	17.9
450	355	17.6	6	727 909 876	6.405	150	100	15	25.5	20.1
450	400	17.6	6	727 909 877	5.942	150	100	15	25.5	22.7
500	225	17.6	6	727 909 879	11.545	165	115	10	29.7	13.4
500	250	17.6	6	727 909 880	11.273	165	115	10	29.7	14.8
500	280	17.6	6	727 909 881	10.916	165	115	10	29.7	16.6
500	315	17.6	6	727 909 882	10.003	165	115	10	28.4	17.9
500	355	17.6	6	727 909 883	9.672	165	115	10	28.4	20.1
500	400	17.6	6	727 909 884	8.231	165	115	10	28.4	22.7
500	450	17.6	6	727 909 885	7.599	165	115	25	28.4	25.5



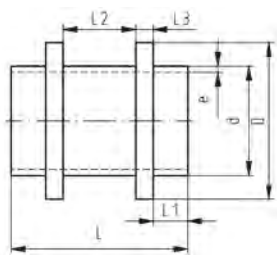
PROGEF Standard Fixpoint fitting SDR17.6/PN6

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Machined



d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	e (mm)
63	17.6	6	IR	727 665 539	0.138	122	30	42	10	90	3.8
75	17.6	6	IR	727 665 540	0.203	122	30	42	10	110	4.5
90	17.6	6	IR	727 665 541	0.267	122	30	42	10	125	5.4
110	17.6	6	IR	727 665 542	0.438	142	30	52	15	140	6.6
125	17.6	6	IR	727 665 543	0.592	152	35	52	15	160	7.4
140	17.6	6	IR	727 665 544	0.781	162	40	52	15	180	8.3
160	17.6	6	IR	727 665 545	0.971	162	40	52	15	200	9.5
180	17.6	6	IR	727 665 546	1.464	182	45	52	20	225	10.7
200	17.6	6	IR	727 665 547	1.808	182	45	52	20	250	11.9
225	17.6	6	IR	727 665 548	2.549	192	45	52	25	280	13.4
250	17.6	6	IR	727 665 549	2.678	212	50	62	25	280	14.8
280	17.6	6	IR	727 665 550	3.668	222	50	62	30	315	16.6
315	17.6	6	IR	727 665 551	4.666	222	50	62	30	355	18.7



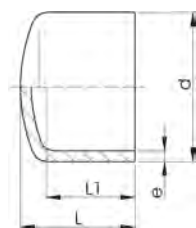
d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	e (mm)
355	17.6	6		727 665 552	5.567	192	30	62	35	400	21.1
400	17.6	6		727 665 553	7.835	212	30	72	40	450	23.7
450	17.6	6		727 665 554	10.552	232	35	72	45	500	26.7
500	17.6	6		727 665 555	14.608	252	40	72	50	560	29.7



PROGEF Standard End cap SDR17.6/PN6

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H



d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
50	17.6	6	IR	727 968 710	0.036	72	59	2.9
63	17.6	6	IR	727 968 711	0.061	83	66	3.6
75	17.6	6	IR	727 968 712	0.095	94	73	4.3
90	17.6	6	IR	727 968 713	0.160	110	83	5.1
110	17.6	6	IR	727 968 714	0.260	123	88	6.3
125	17.6	6	IR	727 968 715	0.360	127	92	7.1
140	17.6	6	IR	727 968 716	0.485	136	97	8.0
160	17.6	6	IR	727 968 717	0.735	161	109	9.1
180	17.6	6	IR	727 968 718	0.990	166	114	10.2
200	17.6	6	IR	727 968 719	1.310	179	117	11.4
225	17.6	6	IR	727 968 720	1.790	203	129	12.8



PROGEF Standard End cap short SDR17.6/PN6

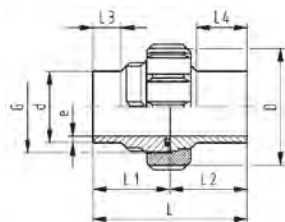
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- Machined



d (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	e (mm)
250	17.6	6	727 968 821	1.600	55	14.2
280	17.6	6	727 968 822	2.100	60	15.9
315	17.6	6	727 968 823	3.000	65	17.9
355	17.6	6	727 968 824	4.200	70	20.1
400	17.6	6	727 968 825	6.000	75	22.7
450	17.6	6	727 968 826	8.600	85	25.5
500	17.6	6	727 968 827	11.600	90	28.3

Butt fusion unions and o-rings



PROGEF Standard Union SDR11/PN10

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

With butt fusion ends

Gasket: O-ring EPDM

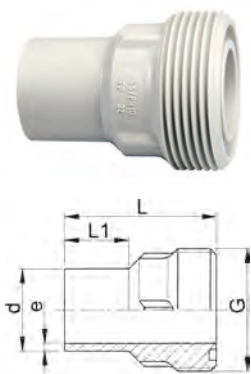
For the dimensions d75-110 please see instructions for the installation
d75-d110 new thread design since 2022

d (mm)	SDR	PN (bar)	FM	EPDM Code	FKM Code	Weight (kg)
20	11	10	IR	727 518 506	727 528 506	0.047
25	11	10	IR	727 518 507	727 528 507	0.072
32	11	10	IR	727 518 508	727 528 508	0.100
40	11	10	IR	727 518 509	727 528 509	0.145
50	11	10	IR	727 518 510	727 528 510	0.190
63	11	10	IR	727 518 511	727 528 511	0.332
75	11	10	IR	727 518 212	727 528 212	0.520
90	11	10	IR	727 518 213	727 528 213	0.533
110	11	10	IR	727 518 214	727 528 214	0.754

d (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D (mm)	G (inch)	e (mm)	Size	O-Ring EPDM
20	107.0	54.0	53.0	26	37	48	1	1.9	20,22 x 3,53	748.410.006
25	113.0	57.0	56.0	26	36	58	1 1/4	2.3	28,17 x 3,53	748.410.007
32	119.0	60.0	59.0	26	25	65	1 1/2	2.9	32,93 x 3,53	748.410.008
40	126.0	63.0	63.0	26	25	79	2	3.7	40,65 x 5,34	748.410.009
50	131.0	65.5	65.5	26	25	91	2 1/4	4.6	46,99 x 5,34	748.410.010
63	137.0	69.0	68.0	26	26	111	2 3/4	5.8	59,69 x 5,34	748.410.011
75	134.5	68.5	66.0	26	34	138	S110x5	6.8	66,04 x 5,33	748.410.024
90	134.5	68.5	66.0	26	45	138	S110x5	8.2	74,63 x 5,34	748.410.383
110	139.5	74.0	65.5	33	40	161	S130x5	10.0	94,62 x 5,34	748.410.248

d O-Ring FKM

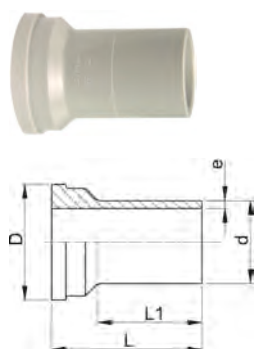
d (mm)	
20	749.410.006
25	749.410.007
32	749.410.008
40	749.410.009
50	749.410.010
63	749.410.011
75	749.410.024
90	749.410.383
110	749.410.248



PROGEF Standard Union bush SDR11/PN10

d75-d110 new thread design since 2022

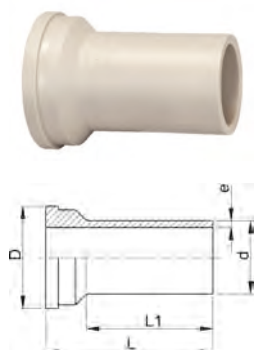
d	SDR	PN	FM	Code	Weight	L	L1	G	e
(mm)		(bar)			(kg)	(mm)	(mm)	(inch)	(mm)
20	11	10	IR	727 848 506	0.012	54	26	1	1.9
25	11	10	IR	727 848 507	0.020	57	26	1 1/4	2.3
32	11	10	IR	727 848 508	0.029	60	25	1 1/2	2.9
40	11	10	IR	727 848 509	0.047	63	25	2	3.7
50	11	10	IR	727 848 510	0.062	66	25	2 1/4	4.6
63	11	10	IR	727 848 511	0.107	69	25	2 3/4	5.8
75	11	10	IR	727 848 212	0.172	68	26	S110x5	6.8
90	11	10	IR	727 848 213	0.182	68	26	S110x5	8.2
110	11	10	IR	727 848 214	0.258	74	33	S130x5	10.0



PROGEF Standard Union end PP-H PN10

*just for variable area flow meter

d	SDR	PN	FM	Code	Weight	L	L1	D	e	
(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	
20	11	10	IR	727 508 506	0.009	53	38	30	1.9	
25	11	10	IR	727 508 507	0.017	57	42	39	2.3	
32	11	10	IR	727 508 508	0.026	60	41	45	2.9	
40	11	10	IR	727 508 509	0.043	63	42	57	3.7	
50	11	10	IR	727 508 510	0.058	66	44	63	4.6	
63	11	10	IR	727 508 511	0.095	69	45	78	5.8	
75	11	10	IR	727 508 212	0.146	66	34	103	6.8	
*	75	11	10	IR	700 256 401	0.172	66	34	101	6.8
90	11	10	IR	727 508 213	0.158	66	45	103	8.2	
110	11	10	IR	727 508 214	0.200	66	40	123	10.0	

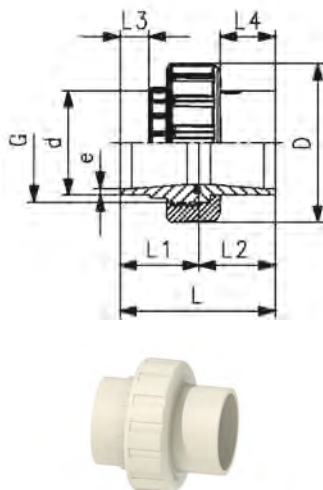


PROGEF Standard Union end long SDR11/PN10

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Suitable for unions, diaphragm valves type 314 and vortex sensors

d	SDR	PN	FM	Code	Weight	L	L1	D	e
(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)
20	11	10	IR	727 608 516	0.011	67	52	30	1.9
25	11	10	IR	727 608 517	0.018	71	53	39	2.3
32	11	10	IR	727 608 518	0.024	73	55	45	2.9
40	11	10	IR	727 608 519	0.041	81	60	57	3.7
50	11	10	IR	727 608 520	0.054	87	66	63	4.6
63	11	10	IR	727 608 521	0.122	93	70	78	5.8



PROGEF Standard Union SDR17.6 (PN6)

Model:

- Material: PP-H
- Jointing face: With O-ring groove
- **For the dimensions d75-110 please see instructions for the installation**
- With butt fusion ends
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

d (mm)	PN (bar)	SDR	FM	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	6	17.6	IR	727 518 112	0.479	727 528 112	0.476
90	6	17.6	IR	727 518 113	0.483	727 528 113	0.483
110	6	17.6	IR	727 518 114	0.663	727 528 114	0.663

d (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D (mm)	G (inch)	e (mm)	Size	O-Ring	EPDM
75	134.5	68.5	66.0	26	34	138	S110x5	4.3	66,04 x 5,33	748.410.024	
90	134.5	68.5	66.0	26	55	161	S110x5	5.1	74,63 x 5,34	748.410.383	
110	139.5	74.0	65.5	33	55	191	S130x5	6.3	94,62 x 5,34	748.410.248	

d O-Ring FKM

d (mm)	
75	749.410.024
90	749.410.383
110	749.410.248



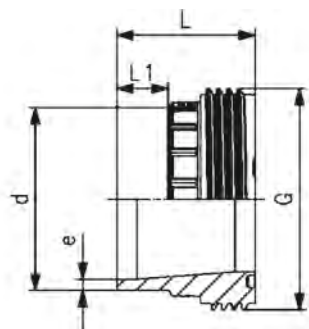
PROGEF Standard Union bush SDR17.6 (PN6)

Model:

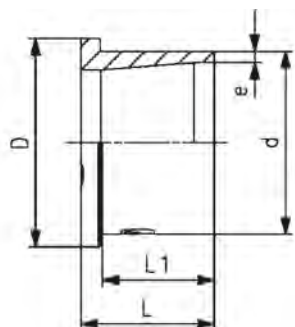
- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

With butt fusion ends

For the dimensions d75-110 please see instructions for the installation



d (mm)	PN (bar)	SDR	FM	Code	Weight (kg)	L (mm)	L1 (mm)	G (inch)	e (mm)
75	6	17.6	IR	727 848 112	0.172	68	26	S110x5	4.3
90	6	17.6	IR	727 848 113	0.182	68	26	S110x5	5.1
110	6	17.6	IR	727 848 114	0.258	74	33	S130x5	6.3



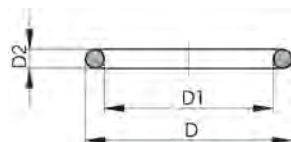
PROGEF Standard Union end SDR17.6 (PN6)

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

For the dimensions d75-110 please see instructions for the installation

d	PN	SDR	FM	Code	Weight	L	L1	D	e
(mm)	(bar)				(kg)	(mm)	(mm)	(mm)	(mm)
75	6	17.6	IR	727 508 112	0.146	66	34	103	4.3
90	6	17.6	IR	727 508 113	0.130	66	45	103	5.1
110	6	17.6	IR	727 508 114	0.233	66	55	123	6.3



O-Ring Union EPDM/FKM

Model:

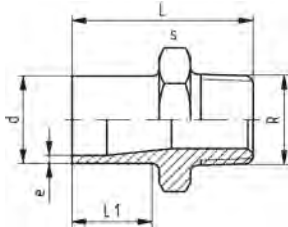
- For ecoFIT, PROGEF Std/Plus, SYGEF Std unions and adapter unions for butt fusion
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

Note:

For the O-Rings of new unions as of 10/2022, see respective union datasheet

d	DN	EPDM	Weight	FKM	D	D1	D2
(mm)	(mm)	Code	(kg)	Code	(mm)	(mm)	(mm)
20	15	748 410 006	0.002	749 410 006	27.28	20.22	3.53
25	20	748 410 007	0.002	749 410 007	35.23	28.17	3.53
32	25	748 410 008	0.003	749 410 008	39.99	32.93	3.53
40	32	748 410 009	0.003	749 410 009	51.33	40.65	5.34
50	40	748 410 010	0.004	749 410 010	57.68	46.99	5.34
63	50	748 410 011	0.005	749 410 011	70.37	56.69	5.34

Butt fusion transition fittings

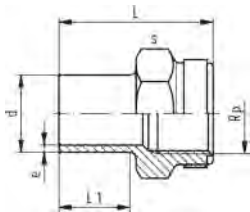


PROGEF Standard Adaptor nipple Metric R SDR11 (PN10)

Model:

- Material: PP-H
- With butt fusion spigot and BSP tapered male thread
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	SDR	FM	Code	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	R	½	10	11	IR	727 910 556	0.013	51	23	32	1.9
25	R	¾	10	11	IR	727 910 557	0.014	52	23	36	2.3
32	R	1	10	11	IR	727 910 558	0.027	55	23	46	2.9
40	R	1 ¼	10	11	IR	727 910 559	0.041	58	23	55	3.7
50	R	1 ½	10	11	IR	727 910 560	0.062	60	23	65	4.6
63	R	2	10	11	IR	727 910 561	0.096	67	26	80	5.8

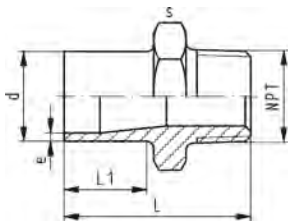


PROGEF Standard Adaptor socket Metric Rp SDR11 (PN10)

Model:

- Material: PP-H
- With butt fusion spigot **SDR11** and BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	SDR	FM	Code	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	Rp	½	10	11	IR	727 910 266	0.017	49	23	32	1.9
25	Rp	¾	10	11	IR	727 910 267	0.022	50	23	36	2.3
32	Rp	1	10	11	IR	727 910 268	0.038	54	23	46	2.9
40	Rp	1 ¼	10	11	IR	727 910 269	0.066	56	23	55	3.7
50	Rp	1 ½	10	11	IR	727 910 270	0.090	60	23	65	4.6
63	Rp	2	10	11	IR	727 910 271	0.123	62	23	80	5.8

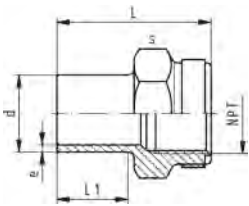


PROGEF Standard Adaptor nipple PN10 Metric NPT male SDR11

Model:

- Material: PP-H
- With butt fusion spigot **SDR11** and NPT tapered male thread
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	NPT	½	11	10	IR	727 914 656	0.013	51	23	32	1.9
25	NPT	¾	11	10	IR	727 914 657	0.026	52	23	36	2.3
32	NPT	1	11	10	IR	727 914 658	0.026	55	23	46	2.9
40	NPT	1 ¼	11	10	IR	727 914 659	0.041	58	24	55	3.7
50	NPT	1 ½	11	10	IR	727 914 660	0.062	60	23	65	4.6
63	NPT	2	11	10	IR	727 914 661	0.097	67	26	80	5.8

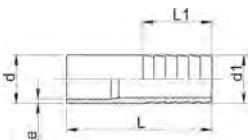


PROGEF Standard Adaptor nipple SDR11/PN10 Metric NPT female

Model:

- Material: PP-H
- With butt fusion spigot **SDR11** and NPT tapered female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

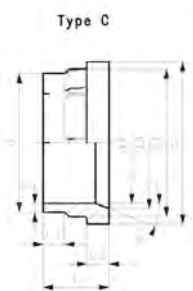
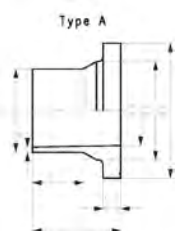
d	Size	SDR	PN	FM	Thread Type	Code	Weight	L	L1	s	e
(mm)	(inch)		(bar)				(kg)	(mm)	(mm)	(mm)	(mm)
20	½	11	10	IR	NPT	727 914 356	0.017	49	23	32	1.9
25	¾	11	10	IR	NPT	727 914 357	0.022	51	23	36	2.3
32	1	11	10	IR	NPT	727 914 358	0.039	54	23	46	2.9
40	1 ¼	11	10	IR	NPT	727 914 359	0.057	56	23	55	3.7
50	1 ½	11	10	IR	NPT	727 914 360	0.085	60	23	65	4.6
63	2	11	10	IR	NPT	727 914 361	0.122	62	23	80	5.8



PROGEF Standard Hose Connector Metric SDR11 (PN10)

d	PN	SDR	d1	FM	Code	Weight	L	L1	e
(mm)	(bar)		(mm)			(kg)	(mm)	(mm)	(mm)
20	10	11	20	IR	727 968 606	0.007	64	27	1.9
25	10	11	25	IR	727 968 607	0.014	75	36	2.3
32	10	11	32	IR	727 968 608	0.022	82	36	2.9
40	10	11	40	IR	727 968 609	0.032	84	42	3.7
50	10	11	50	IR	727 968 810	0.053	90	48	4.6
63	10	11	60	IR	727 968 811	0.088	119	50	5.8

Butt fusion flange adaptors, flanges and gaskets



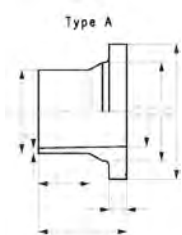
PROGEF Standard Flange adaptor PP-H SDR11/PN10 Combined jointing face: flat and serrated

Model:

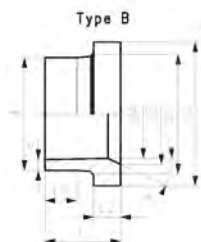
- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR- Infrared welding compatible
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567/578 and 038/039. Above use PROGEF Standard adaptor for butterfly valves SDR11 (d355-d500)
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07
- * Material: PP-R, not suitable for butterfly valves

	d (mm)	DN (mm)	SDR	PN (bar)	FM	Type	Code	Weight (kg)
	20	15	11	10	IR	A	727 798 706	0.015
	25	20	11	10	IR	A	727 798 707	0.029
	32	25	11	10	IR	A	727 798 708	0.042
	40	32	11	10	IR	A	727 798 709	0.061
	50	40	11	10	IR	A	727 798 710	0.091
	63	50	11	10	IR	A	727 798 711	0.144
	75	65	11	10	IR	B	727 798 712	0.243
	90	80	11	10	IR	B	727 798 713	0.324
	110	100	11	10	IR	B	727 798 714	0.441
	125	100	11	10	IR	B	727 798 715	0.520
	140	125	11	10	IR	B	727 798 716	0.800
*	160	150	11	10	IR	B	727 798 117	1.060
	180	150	11	10	IR	B	727 798 318	1.026
	200	200	11	10	IR	C	727 798 319	1.652
*	225	200	11	10	IR	C	727 798 120	2.100
	250	250	11	10	IR	C	727 798 521	2.630
	280	250	11	10	IR	C	727 798 322	2.521
	315	300	11	10	IR	C	727 798 523	3.247
*	355	350	11	10		C	727 798 324	6.600
*	400	400	11	10		C	727 798 325	9.100
*	450	500	11	10		C	727 798 326	17.300
*	500	500	11	10		C	727 798 327	18.400

	d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	a°
	20	26	45		16	50	29	7	1.9	
	25	32	58		20	52	27	9	2.3	
	32	40	68		26	54	28	10	2.9	
	40	49	78		32	56	25	11	3.7	
	50	60	88		40	62	32	12	4.6	
	63	75	102		51	68	38	14	5.8	
	75	89	122	66	61	80	43	16	6.9	30
	90	105	138	78	73	80	41	17	8.2	30
	110	125	158	100	90	80	40	18	10.0	30
	125	132	158	114	102	82	35	25	11.4	25
	140	155	188	127	114	89	39	25	12.8	27
*	160	175	212	151	131	107	40	25	14.6	30
	180	180	212	154	148	92	40	30	17.4	30
	200	232	268	203	174	100	35	32	19.3	30
*	225	235	268	210	184	133	45	32	20.5	30
	250	285	320	252	203	120	45	36	24.0	
	280	291	320	265	228	120	45	37	26.8	30
	315	338	370	300	256	150	50	52	30.2	22



	d	d1	d2	d3	d4	L	L1	L2	e	a°
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
*	355	373	430	342	284	162	70	40	33.9	45
*	400	427	482	387	320	172	70	46	38.2	45
*	450	514	585	400	360	225	105	60	43.0	15
*	500	530	585	442	400	231	105	60	47.8	15



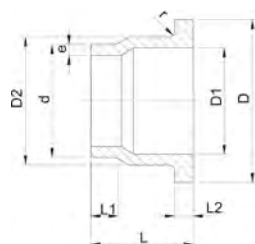
PROGEF Standard Outlet flange adaptor SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- To wafer check valves type 369

Attention:

- In conjunction with Outlet flange adaptors, **flange rings for socket systems** must be used.



d	DN	SDR	PN	Code	Weight	L	L1	L2	D	D1	D2	r	e
(mm)	(mm)		(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
40	32	11	10	727 808 034	0.172	64	30	11	80	37	50	3	3.7
50	40	11	10	727 808 035	0.096	67	30	12	90	43	61	3	4.6
63	50	11	10	727 808 036	0.157	74	30	14	105	54	76	4	5.8
75	65	11	10	727 808 037	0.223	78	30	16	125	70	90	4	6.8
90	80	11	10	727 808 038	0.325	87	35	17	140	82	108	4	8.2
110	100	11	10	727 808 039	0.475	102	41	18	160	105	131	4	10.0
140	125	11	10	727 808 041	0.899	124	47	25	190	130	165	4	12.7
160	150	11	10	727 808 042	1.246	149	52	25	215	158	188	4	14.6
225	200	11	10	727 808 045	2.638	180	55	32	270	206	248	4	20.5
280	250	11	10	727 808 047	4.088	240	63	35	325	259	308	4	25.4
315	300	11	10	727 808 048	4.960	272	66	35	375	308	346	4	28.6



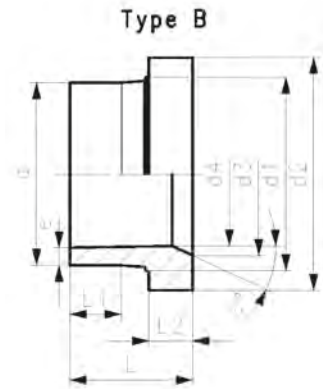
PROGEF Standard Flange adaptor for butterfly valves SDR11/PN10

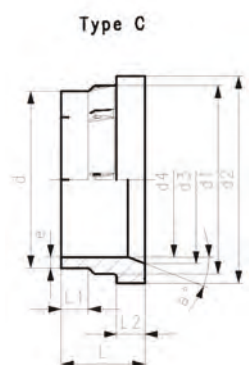
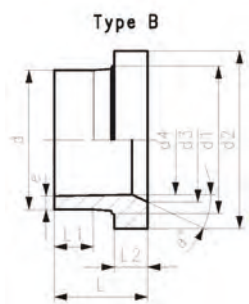
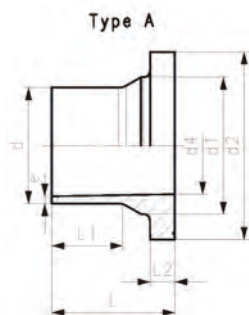
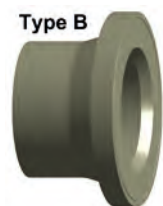
Model:

- Material: PP-R
- Conventional butt-welding according to DVS 2207
- Suitable for butterfly valve type 567/578 and 038/039

d	DN	SDR	PN	Type	Code	Weight
(mm)	(mm)		(bar)			(kg)
355	350	11	10	B	727 798 924	7.300
400	400	11	10	B	727 798 925	10.200
450	500	11	10	B	727 798 926	17.900
500	500	11	10	B	727 798 927	20.100

d1	d2	d3	d4	L	L1	L2	e	a°
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
373	430	350	284	187	70	65	33.9	25
427	482	400	320	196	70	70	38.2	25
467	533	450	360	272	105	107	43.0	23
530	585	498	400	261	105	90	47.8	25





PROGEF Standard Flange adaptor SDR17.6/PN6 combined joining face: flat and serrated

Model:

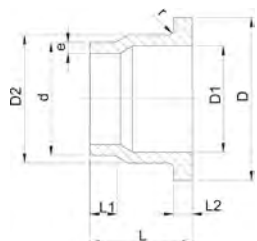
- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR- Infrared welding compatible
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d400, suitable for butterfly valve type 567/578 and 038/039. Above use PROGEF Standard adaptor for butterfly valves SDR17.6 (d450-d500)
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07

* Material: PP-R

**Material: PP-R, not suitable for butterfly valves

	d (mm)	DN (mm)	SDR	PN (bar)	FM	Type	Code	Weight (kg)
	50	40	17.6	6	IR	A	727 798 210	0.077
	63	50	17.6	6	IR	A	727 798 211	0.116
	75	65	17.6	6	IR	A	727 798 787	0.204
	90	80	17.6	6	IR	A	727 798 788	0.273
	110	100	17.6	6	IR	A	727 798 789	0.361
	125	100	17.6	6	IR	B	727 798 215	0.386
	140	125	17.6	6	IR	B	727 798 216	0.597
*	160	150	17.6	6	IR	B	727 798 417	0.730
	180	150	17.6	6	IR	A	727 798 218	0.630
	200	200	17.6	6	IR	C	727 798 219	1.268
**	225	200	17.6	6	IR	C	727 798 420	1.420
	250	250	17.6	6	IR	C	727 798 421	2.130
	280	250	17.6	6	IR	C	727 798 222	1.785
	315	300	17.6	6	IR	C	727 798 423	2.499
*	355	350	17.6	6		C	727 798 224	4.600
*	400	400	17.6	6		C	727 798 225	6.100
**	450	500	17.6	6		C	727 798 226	12.100
**	500	500	17.6	6		C	727 798 227	12.700

d (mm)	DN (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	a°
50	40	60	88		44	62	32	12	3.0	
63	50	75	102		55	68	38	14	3.8	
75	65	89	122		63	80	43	16	4.5	
90	80	105	138		78	80	42	17	5.4	
110	100	125	158		94	80	42	18	6.6	
125	100	132	158	114	110	82	35	25	7.4	25.0
140	125	155	188	127	123	89	39	25	8.3	27.0
*	160	150	175	158	142	100	40	19	9.1	30.0
	180	150	180		158	92	45	20	10.7	
	200	200	232	203	174	100	42	24	11.9	30.0
**	225	200	235	210	199	125	45	24	12.8	30.0
	250	250	285	252	221	120	45	26	14.8	25.0
	280	250	291	265	247	120	45	35	16.6	30.0
	315	300	335	300	278	150	50	51	18.7	21.0
*	355	350	373	346	310	155	70	33	21.1	21.0
*	400	400	427	395	350	162	70	36	23.7	21.0
**	450	500	514	400	400	211	105	46	26.7	4.0
**	500	500	530	442	442	217	105	46	29.7	1.5



PROGEF Standard Outlet flange adaptor SDR17.6/PN6

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- To wafer check valves type 369

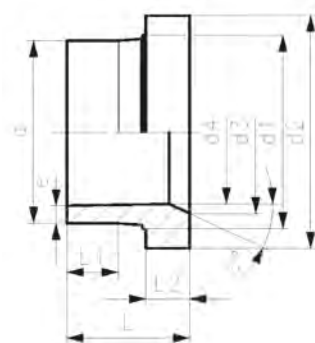
Attention:

- In conjunction with Outlet flange adaptors, **flange rings for socket systems** must be used.

d	DN	SDR	PN	Code	Weight	L	L1	L2	D	D1	D2	r	e
(mm)	(mm)		(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
40	32	17.6	6	727 808 009	0.048	64	30	11	80	37	50	3	2.3
50	40	17.6	6	727 808 010	0.091	67	30	12	90	43	61	3	2.9
63	50	17.6	6	727 808 011	0.096	74	30	14	105	54	76	4	3.6
75	65	17.6	6	727 808 012	0.170	78	30	16	125	70	90	4	4.3
90	80	17.6	6	727 808 013	0.260	87	35	17	140	82	108	4	5.1
110	100	17.6	6	727 808 014	0.429	102	41	18	160	105	131	4	6.3
140	125	17.6	6	727 808 016	0.808	124	47	18	190	130	165	4	8.0
160	150	17.6	6	727 808 017	1.107	149	52	18	215	158	188	4	9.1
225	200	17.6	6	727 808 020	2.324	180	55	24	270	206	248	4	12.7
280	250	17.6	6	727 808 022	3.563	240	63	25	325	259	308	4	15.9
315	300	17.6	6	727 808 023	2.450	272	66	25	375	308	346	4	17.9



Type B



PROGEF Standard Flange adaptor for butterfly valves SDR17.6/PN6

Model:

- Material: PP-R
- Conventional butt-welding according to DVS 2207
- Suitable for butterfly valve type 567/578 and 038/039

d	DN	SDR	PN	Type	Code	Weight
(mm)	(mm)		(bar)			(kg)
450	500	17.6	6	B	727 798 951	10.200
500	500	17.6	6	B	727 798 952	11.500

d	d1	d2	d3	d4	L	L1	L2	e	a°
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
450	467	533	450	397	224	105	59	27.5	23
500	530	585	498	440	217	105	46	30.5	25



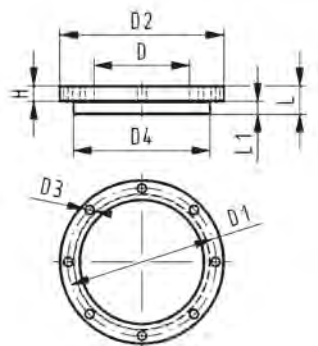
Blanking flange set PP-H Combined jointing face flat and serrated metric

Model:

- d63 - d315: backing flange PP-V with end blank PP-H
- d355 - d630: backing flange PP/Steel with end blank PP-H
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

AL: number of holes

L: height backing ring + collar thickness end blank



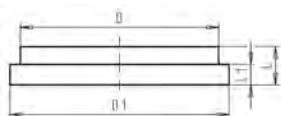
d	DN	PN	Code	Weight	D	D1	D2	D3	D4	L	L1	H	AL
(mm)	(mm)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
63	50	10	727 700 611	0.531	75	125	165	18	102	38	14	24	4
75	65	10	727 700 612	0.901	89	145	185	18	122	42	16	26	4
90	80	10	727 700 613	1.054	105	160	200	18	138	44	17	27	8
110	100	10	727 700 614	1.199	125	180	220	18	158	46	18	28	8
125	100	10	727 700 615	1.201	132	180	220	18	158	53	25	28	8
140	125	10	727 700 616	1.748	155	210	250	18	188	55	25	30	8
160	150	10	727 700 617	2.312	175	240	285	22	212	57	25	32	8
180	150	10	727 700 618	2.443	180	240	285	22	212	62	30	32	8
200	200	10	727 700 619	3.961	232	295	340	22	268	66	32	34	8
225	200	10	727 700 620	3.956	235	295	340	22	268	66	32	34	8
250	250	10	727 700 621	5.425	285	350	395	22	320	73	35	38	12
280	250	10	727 700 622	19.781	291	350	395	22	320	73	35	38	12
315	300	10	727 700 623	8.602	335	400	445	22	370	77	35	42	12
355	350	10	727 700 624	23.184	373	460	515	22	430	80	40	40	16
400	400	10	727 700 625	30.304	427	515	574	26	482	86	46	40	16
450	500	10	727 700 626	43.485	510	620	684	26	585	109	60	49	20
500	500	10	727 700 627	46.203	530	620	684	26	585	109	60	49	20



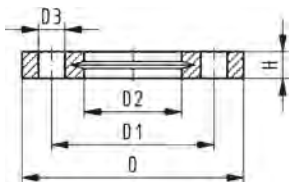
End blank PP-H For butt fusion systems metric

Model:

- Suitable for metric backing flanges



d	DN	PN	Code	Weight	D	D1	L	L1
(mm)	(mm)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)
63	50	16	727 960 811	0.167	75	102	30	14
75	65	16	727 960 812	0.254	89	122	30	16
90	80	16	727 960 813	0.336	105	138	30	17
110	100	16	727 960 814	0.470	125	158	30	18
125	100	16	727 960 815	0.458	132	158	35	25
140	125	16	727 960 816	0.683	155	188	40	25
160	150	10	727 960 817	0.912	175	212	40	25
180	150	10	727 960 818	1.316	180	212	45	30
200	200	10	727 960 819	2.337	232	268	50	32
225	200	10	727 960 820	1.958	235	268	50	32
250	250	10	727 960 821	3.025	285	320	55	35
280	250	10	727 960 822	3.981	291	320	60	35
315	300	10	727 960 823	5.028	335	370	65	35
355	350	10	727 960 824	7.374	373	430	70	40
400	400	10	727 960 825	10.504	427	482	75	46
450	500	10	727 960 826	18.720	510	585	80	60
500	500	10	727 960 827	21.903	530	585	90	60



Flanges PP-V (full plastic)

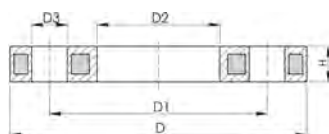
Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

d	DN	d	PN	Standard	Bolt / circle	Design	Code	Weight
(mm)	(mm)	(inch)	(bar)					(kg)
20	15		16	Metric	PN10	Butt/Socket	727 700 406	0.093
25	20		16	Metric	PN10	Butt/Socket	727 700 407	0.120
32	25		16	Metric	PN10	Butt/Socket	727 700 408	0.151
40	32		16	Metric	PN10	Butt/Socket	727 700 409	0.244
50	40		16	Metric	PN10	Butt/Socket	727 700 410	0.297
63	50		16	Metric	PN10	Butt/Socket	727 700 411	0.362
75	65		16	Metric	PN10	Butt/Socket	727 700 412	0.487
90	80		16	Metric	PN10	Butt	727 700 513	0.544
110	100		16	Metric	PN10	Butt	727 700 514	0.643
125	100		16	Metric	PN10	Butt	727 700 515	0.635
140	125		16	Metric	PN10	Butt	727 700 516	0.842
160	150	6	16	Metric/ASME	PN10/ class 150	Butt	727 700 517	1.200
180	150		16	Metric/ASME	PN10/ Class 150	Butt	727 700 518	1.200
200	200	8	16	Metric/ASME	PN10/ class 150	Butt	727 700 519	1.400
225	200	8	16	Metric/ASME	PN10/ class 150	Butt	727 700 520	1.400
250	250		10	Metric	PN10	Butt	727 700 521	2.052
280	250		10	Metric	PN10	Butt	727 700 522	1.700
315	300		10	Metric	PN10	Butt	727 700 523	2.400
355	350		10	Metric	PN10	Butt	727 700 524	4.440
400	400		10	Metric	PN10	Butt	727 700 525	5.624

d	D	D1	D2	D3	H max.	AL	SC
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
20	95	65	28	14	16	4	M12
25	105	75	34	14	17	4	M12
32	115	85	42	14	18	4	M12
40	140	100	51	18	20	4	M16
50	150	110	62	18	22	4	M16
63	165	125	78	18	24	4	M16
75	185	145	92	18	26	4	M16
90	200	160	108	18	27	8	M16
110	220	180	128	18	28	8	M16
125	220	180	135	18	28	8	M16
140	250	210	158	18	30	8	M16
160	285	240	178	22	32	8	M20
180	285	240	188	22	32	8	M20
200	340	297	235	22	34	8	M20
225	340	297	238	22	34	8	M20
250	395	350	288	22	38	12	M20
280	395	350	294	22	38	12	M20
315	445	400	338	22	42	12	M20
355	515	460	376	22	46	16	M20
400	574	515	430	26	50	16	M24



Flanges PP-Steel

Model:

- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

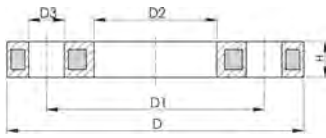
¹⁾ FM 1613 approved – 15 bar

²⁾ Profiled loose flange

	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	20	15	95	16	Metric	PN10	Butt/Socket	727 700 206	0.216
	25	20	105	16	Metric	PN10	Butt/Socket	727 700 207	0.279
	40	32	140	16	Metric	PN10	Butt/Socket	727 700 209	0.621
	50	40	150	16	Metric	PN10	Butt/Socket	727 700 210	0.722
	63	50	165	16	Metric	PN10	Butt/Socket	727 700 211	0.900
	75	65	185	16	Metric	PN10	Butt/Socket	727 700 212	1.110
1	90	80	200	16	Metric	PN10	Butt	724 700 313	1.390
	90	80	200	16	Metric	PN10	Butt	727 700 313	1.390
1	110	100	223	16	Metric	PN10	Butt	724 700 314	1.407
	110	100	220	16	Metric	PN10	Butt	727 700 314	1.407
1	125	100	223	16	Metric	PN10	Butt	724 700 315	1.408
	125	100	220	16	Metric	PN10	Butt	727 700 315	1.408
1	140	125	250	16	Metric	PN10	Butt	724 700 316	2.318
	140	125	250	16	Metric	PN10	Butt	727 700 716	2.318
1	160	150	285	16	Metric	PN10	Butt	724 700 317	3.491
	160	150	285	16	Metric/ASME	PN10/ class 150	Butt	727 700 717	3.491
1	180	150	285	16	Metric	PN10	Butt	724 700 318	3.108
	180	150	285	16	Metric/ASME	PN10/ Class 150	Butt	727 700 718	3.108
1, 2	200	200	344	16	Metric	PN16	Butt	724 700 319	3.549
	200	200	340	16	Metric/ASME	PN10/ class 150	Butt	727 700 719	5.600
1, 2	225	200	344	16	Metric	PN16	Butt	724 700 320	3.380
	225	200	340	16	Metric/ASME	PN10/ class 150	Butt	727 700 720	5.533
1, 2	250	250	410	16	Metric	PN16	Butt	724 700 321	6.390
	250	250	395	16	Metric	PN10	Butt	727 700 721	6.632
1, 2	280	250	410	16	Metric	PN16	Butt	724 700 322	6.310
	280	250	395	16	Metric	PN10	Butt	727 700 722	6.573
1, 2	315	300	455	16	Metric	PN16	Butt	724 700 323	9.740
	315	300	445	16	Metric	PN10	Butt	727 700 723	7.903
1, 2	355	350	521	16	Metric	PN16	Butt	724 700 324	15.203
	355	350	515	16	Metric	PN10	Butt	727 700 724	14.587
1, 2	400	400	582	16	Metric	PN16	Butt	724 700 325	20.600
	400	400	574	16	Metric	PN10	Butt	727 700 725	20.034
1, 2	450	500	685	10	Metric	PN10	Butt	724 700 426	25.600
1, 2	500	500	685	10	Metric	PN10	Butt	724 700 427	21.061
2	560	600	796	10	Metric	PN10	Butt	724 700 428	35.000
2	630	600	800	10	Metric	PN10	Butt	724 700 429	28.500
2	710	700	912	6	Metric	PN10	Butt	724 700 430	25.500
2	800	800	1026	6	Metric	PN10	Butt	724 700 431	39.300
2	900	900	1129	6	Metric	PN10	Butt	724 700 432	48.500

	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
	20	65	28	14	12	4	M12
	25	75	34	14	12	4	M12
	40	100	51	18	16	4	M16
	50	110	62	18	20	4	M16
	63	125	78	18	20	4	M16
	75	145	92	18	20	4	M16
1	90	160	108	18	20	8	M16

table continued on the next page



	d	D1	D2	D3	H max.	AL	SC
	(mm)	(mm)	(mm)	(mm)	(mm)		
	90	160	108	18	20	8	M16
1	110	180	128	18	20	8	M16
	110	180	128	18	20	8	M16
1	125	180	135	18	20	8	M16
	125	180	135	18	20	8	M16
1	140	210	158	18	24	8	M16
	140	210	158	18	24	8	M16
1	160	240	178	22	28	8	M20
	160	240	178	22	24	8	M20
1	180	240	188	22	28	8	M20
	180	240	188	22	24	8	M20
1, 2	200	295	235	22	31	12	M20
	200	295	235	22	27	8	M20
1, 2	225	295	238	22	31	12	M20
	225	297	238	22	27	8	M20
1, 2	250	355	288	26	35	12	M24
	250	350	288	22	30	12	M20
1, 2	280	355	294	26	36	12	M24
	280	350	294	22	30	12	M20
1, 2	315	410	338	26	43	12	M24
	315	400	338	22	34	12	M20
1, 2	355	470	376	26	55	16	M24
	355	460	376	23	40	16	M20
1, 2	400	525	430	30	56	16	M27
	400	515	430	26	40	16	M24
1, 2	450	620	517	26	56	20	M24
1, 2	500	620	533	26	56	20	M24
2	560	725	618	30	68	20	M27
2	630	725	645	30	68	20	M27
2	710	840	740	30	49	24	M27
2	800	950	843	33	58	24	M30
2	900	1050	947	33	62	28	M30

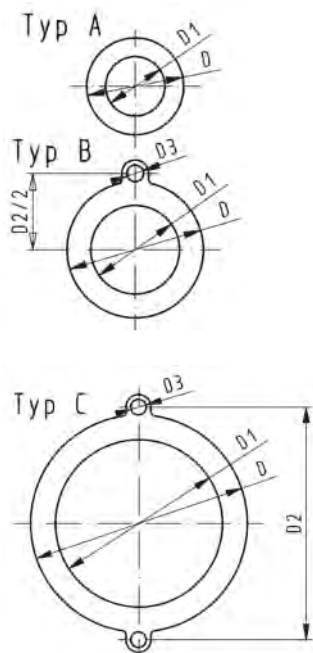


Flat gasket EPDM

Model:

- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flanges adaptors



d (mm)	DN (mm)	PN (bar)	Type	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	di FA (mm)
16	10	10	A	748 400 305	0.004	46	16			2	6 - 26
20	15	10	A	748 400 306	0.012	51	20			2	10 - 30
25	20	10	A	748 400 307	0.004	61	25			2	15 - 35
32	25	10	A	748 400 308	0.008	71	32			2	22 - 42
40	32	10	A	748 400 309	0.013	82	40			3	30 - 50
50	40	10	A	748 400 310	0.016	92	50			3	40 - 60
63	50	10	A	748 400 311	0.018	107	63			3	53 - 73
75	65	10	A	748 400 312	0.029	127	71			3	61 - 81
90	80	10	A	748 400 313	0.035	142	84			3	74 - 94
110	100	10	B	748 400 314	0.051	162	104	180	18	4	94 - 114

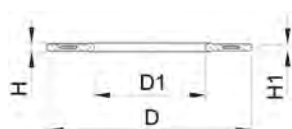


Profile Flange Gasket EPDM/FKM metric

Model:

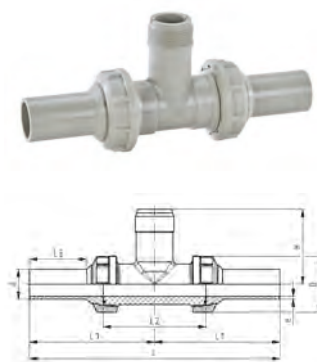
- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

di FA are the suitable inner diameters of flanges adaptors



d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
16	10	16	748 440 705	749 440 705	0.012	46	16	6 - 16	4	3
20	15	16	748 440 706	749 440 706	0.013	51	20	10 - 20	4	3
25	20	16	748 440 707	749 440 707	0.014	61	22	12 - 22	4	3
32	25	16	748 440 708	749 440 708	0.019	71	28	18 - 28	4	3
40	32	16	748 440 709	749 440 709	0.026	82	40	30 - 40	4	3
50	40	16	748 440 710	749 440 710	0.039	92	46	36 - 46	4	3
63	50	16	748 440 711	749 440 711	0.050	107	58	48 - 58	5	4
75	65	16	748 440 712	749 440 712	0.082	127	69	59 - 69	5	4
90	80	16	748 440 713	749 440 713	0.083	142	84	73 - 84	5	4
110	100	16	748 440 714	749 440 714	0.127	162	104	94 - 104	6	5

Butt fusion installation fittings



PROGEF Standard installation fitting type 318 SDR11/PN10 For butt fusion systems metric

Model:

- Material: PP-H
- Threaded outlet 1 1/4" NPSM
- Union end with butt fusion spigot PP-H

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

Attention:

- sensor length depends on installation fitting

d (mm)	DN (mm)	FM	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	IR	727 318 006	0.151	727 318 036	0.136
25	20	IR	727 318 007	0.190	727 318 037	0.208
32	25	IR	727 318 008	0.250	727 318 038	0.250
40	32	IR	727 318 009	0.356	727 318 039	0.358
50	40	IR	727 318 010	0.510	727 318 040	0.510
63	50	IR	727 318 011	0.800	727 318 041	0.800

d (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	H (mm)	e (mm)	Sensor Type
20	224	112	90	52	48	76	2	flow X0, pH XX
25	242	121	100	53	58	78	2	flow X0, pH XX
32	256	128	110	55	65	81	3	flow X0, pH XX
40	272	136	110	60	79	85	4	flow X0, pH XX
50	294	147	120	66	91	89	5	flow X0, pH XX
63	316	158	130	70	105	95	6	flow X0, pH XX



PROGEF Standard installation fitting type 311 PN10

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512

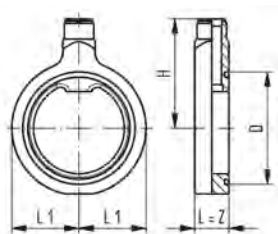
Attention:

- sensor length depends on installation fitting

Model:

- Material: PP-H
- Threaded outlet 1 1/4" NPSM
- Suitable for backing flanges metric and inch
- Suitable for SDR 11 - SDR 17.6
- Delivered with profile O-ring

d (inch)	d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
2 1/2	75	65	727 311 012	0.430	727 311 042	0.460
3	90	80	727 311 013	0.528	727 311 043	0.542
4	110	100	727 311 014	0.652	727 311 044	0.668
	125	100	727 311 015	0.565	727 311 045	0.595
5	140	125	727 311 016	0.816	727 311 046	0.842
6	160	150	727 311 017	0.983	727 311 047	0.984
	180	150	727 311 018	0.828	727 311 048	0.868
8	200	200	727 311 019	1.524	727 311 049	1.578



d (inch)	d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
8	225	200	727 311 020	1.278	727 311 050	1.332
10	250	250	727 311 021	2.133	727 311 051	2.209
10	280	250	727 311 022	1.760	727 311 052	1.836
12	315	300	727 311 023	2.409	727 311 053	2.495

d (inch)	d (mm)	D (mm)	L (mm)	L1 (mm)	H (mm)	Sensor Type
2 1/2	75	88	48	61	133	flow X1
3	90	102	48	69	140	flow X1
4	110	132	48	79	149	flow X1
	125	132	48	79	144	flow X1
5	140	157	48	94	149	flow X1
6	160	182	48	106	156	flow X1
	180	182	48	106	163	flow X1
8	200	236	48	134	170	flow X1
8	225	236	48	134	178	flow X1
10	250	289	48	160	263	flow X2
10	280	289	48	160	273	flow X2
12	315	329	48	185	285	flow X2

PROGEF Standard installation fitting type 312 metric

Model:

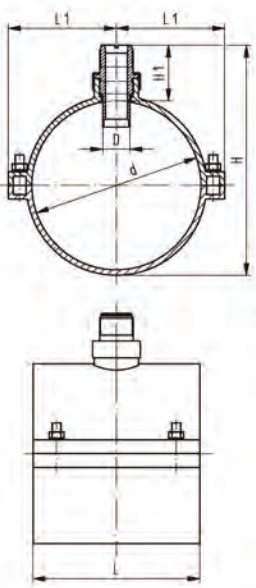
- Material: PP-H
- Threaded outlet 1 1/4" NPSM
- Top saddle with EPDM gasket
- Stainless steel bolts and nuts

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- suitable for all plastic pipes

Attention:

- sensor length depends on installation fitting
- working temperature max. +40°C (water)



d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	D (mm)	Sensor Type
75	65	8	727 312 072	0.488	78	62	172	88	34	flow X1
90	80	8	727 312 073	0.514	86	69	186	87	34	flow X1
110	100	8	727 312 074	0.602	98	79	206	86	34	flow X1
125	100	8	727 312 075	0.667	101	85	212	78	34	flow X1
140	125	6	727 312 076	0.949	114	104	227	75	34	flow X1
160	150	6	727 312 077	0.985	114	114	243	72	34	flow X1
180	150	6	727 312 078	2.118	168	134	348	144	34	flow X2
200	200	6	727 312 079	2.045	168	132	357	142	34	flow X2
225	200	5	727 312 080	2.211	174	146	375	136	34	flow X2
250	250	5	727 312 081	2.616	179	159	397	131	34	flow X2
280	250	5	727 312 082	3.583	179	167	426	127	34	flow X2
315	300	5	727 312 083	4.311	248	202	450	120	34	flow X2

PROGEF Standard installation fitting type 314

Model:

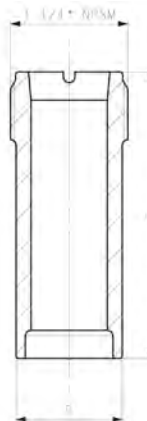
- Material: PP-H
- Threaded outlet 1 1/4" NPSM
- For conventional hot gas back welding according to DVS 2207 part 3

Attention:

- pH sensors can also be used for dimensions above d180/DN150 and below d75/DN65 with 727 314 000 The length might have to be adjusted (sensor has to touch the medium)
- only for pressureless or low pressure application
- pressure rate depends on quality of hot gas back welding
- please consult the instruction manual
- Installation by trained and certified welders only
- sensor length depends on installation fitting

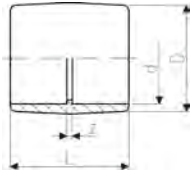
Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735



d (mm)	DN (mm)	PN* (bar)	Code	Weight (kg)	L (mm)	D (mm)	Sensor Type
65 - 150	65 - 150	-	727 314 000	0.050	68	38	flow X0, pH XX
200 - 350	200 - 350	-	727 314 001	0.057	102	38	flow X1
350 - 600	350 - 600	-	727 314 002	0.885	178	38	flow X2

Socket fusion fittings

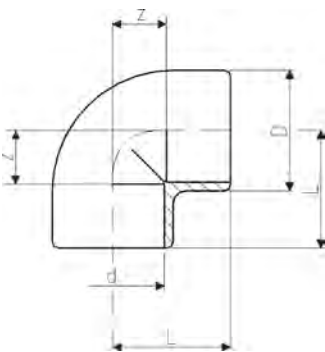


PROGEF Standard Socket equal PN10

Model:

- Material: PP-H
- * use pipe SDR 7.4

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)	z (mm)
*16	10	727 910 105	0.010	33	26	7
20	10	727 910 106	0.013	35	31	7
25	10	727 910 107	0.020	39	36	7
32	10	727 910 108	0.028	43	44	7
40	10	727 910 109	0.045	48	54	8
50	10	727 910 110	0.072	54	66	8
63	10	727 910 111	0.118	62	82	8
75	10	727 910 112	0.147	70	93	8
90	10	727 910 113	0.238	81	112	11
110	10	727 910 114	0.425	96	134	14

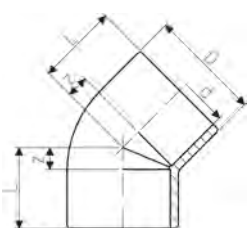


PROGEF Standard Elbow 90° PN10

Model:

- Material: PP-H
- * use pipe SDR 7.4

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)	z (mm)
* 16	10	727 100 105	0.014	25	26	12
20	10	727 100 106	0.020	28	31	14
25	10	727 100 107	0.029	32	36	16
32	10	727 100 108	0.044	38	44	20
40	10	727 100 109	0.071	44	54	24
50	10	727 100 110	0.121	51	66	28
63	10	727 100 111	0.228	62	82	35
75	10	727 100 112	0.301	76	93	45
90	10	727 100 113	0.477	88	110	53
110	10	727 100 114	0.869	106	134	65

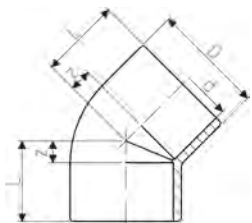


PROGEF Standard Elbow 45° PN10

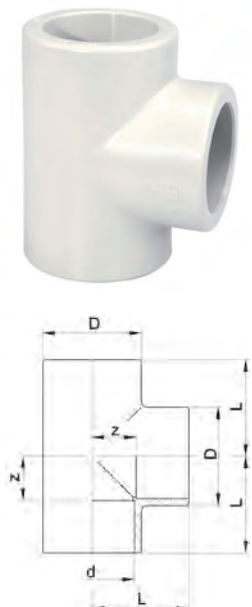
Model:

- Material: PP-H
- * use pipe SDR 7.4

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)	z (mm)
* 16	10	727 150 105	0.009	20	23	7
20	10	727 150 106	0.016	21	31	7
25	10	727 150 107	0.024	24	36	8
32	10	727 150 108	0.036	28	44	10
40	10	727 150 109	0.059	33	53	13
50	10	727 150 110	0.084	36	64	13



d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)	z (mm)
63	10	727 150 111	0.183	43	82	16
75	10	727 150 112	0.219	51	93	20
90	10	727 150 113	0.336	58	110	23
110	10	727 150 114	0.657	68	134	27

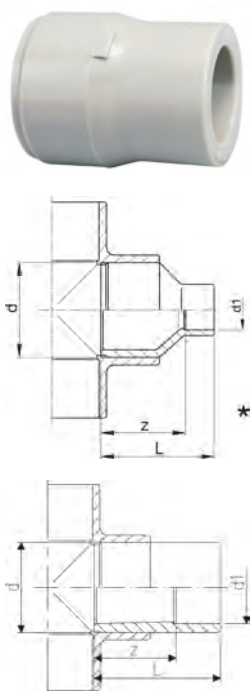


PROGEF Standard Tee 90° equal PN10

Model:

- Material: PP-H
- * use pipe SDR 7.4

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)	z (mm)
* 16	10	727 200 105	0.020	25	26	12
20	10	727 200 106	0.027	28	31	14
25	10	727 200 107	0.039	32	36	16
32	10	727 200 108	0.057	38	44	20
40	10	727 200 109	0.095	44	54	24
50	10	727 200 110	0.161	51	66	28
63	10	727 200 111	0.286	62	82	35
75	10	727 200 112	0.390	76	93	45
90	10	727 200 113	0.727	88	114	53
110	10	727 200 114	1.062	106	134	65



PROGEF Standard Reducer PN10

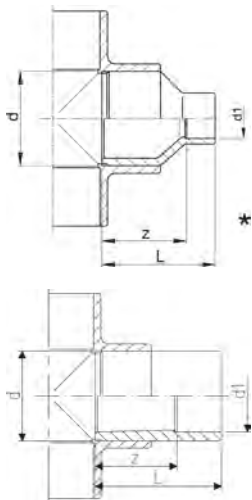
Model:

- Material: PP-H

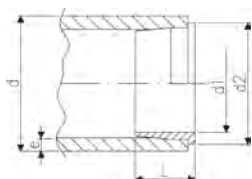
Note:

- * Fusion spigot and socket

d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	L (mm)	z (mm)
20	16	10	727 910 334	0.013	35	22
25	16	10	727 910 338	0.010	38	25
25	20	10	727 910 337	0.012	37	23
32	20	10	727 910 342	0.016	43	29
32	25	10	727 910 341	0.019	43	27
40	20	10	727 910 348	0.022	48	34
40	25	10	727 910 347	0.025	48	32
40	32	10	727 910 346	0.030	48	30
50	20	10	727 910 355	0.034	54	40
50	25	10	727 910 354	0.034	54	38
50	32	10	727 910 353	0.039	54	36
50	40	10	727 910 352	0.048	54	34
63	25	10	727 910 361	0.054	64	46
63	32	10	727 910 360	0.062	64	46
63	40	10	727 910 359	0.069	64	44
63	50	10	727 910 358	0.083	64	41



d	d1	PN	Code	Weight	L	z
(mm)	(mm)	(bar)		(kg)	(mm)	(mm)
75	63	10	727 910 364	0.098	62	35
90	63	10	727 910 371	0.170	88	61
90	75	10	727 910 370	0.142	70	39
110	90	10	727 910 376	0.235	81	46



PROGEF Standard stiffener

Model:

- Material: PP-H
- Used as support during d20 and d25 socket fusion jointing to prevent the pipe from collapsing during the heating and jointing process.

d	Code	Weight	L	d1	d2	e
(mm)		(kg/m)	(mm)	(mm)	(mm)	(mm)
20	727 900 006	0.001	10	14	18	1.9
25	727 900 007	0.004	11	18	23	2.3



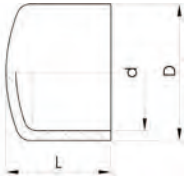
PROGEF Standard Barrel nipple PN10

Model:

- Material: PP-H
- With fusion spigots on both sides
- For the shortest possible distance between fittings

* In these two sizes, stiffeners Code No. 727 900 006 (20 x 1.9) and 727 900 007 (25 x 2.3), or pipe SDR 7.4 must be used with socket fusion joints.

d	PN	Code	Weight	L
(mm)	(bar)		(kg)	(mm)
16	10	727 910 905	0.005	36
*	20	727 910 906	0.005	37
*	25	727 910 907	0.006	41
	32	727 910 908	0.010	45
	40	727 910 909	0.017	50
	50	727 910 910	0.029	55
	63	727 910 911	0.058	64
	75	727 910 912	0.095	76
	90	727 910 913	0.163	90
	110	727 910 914	0.305	108



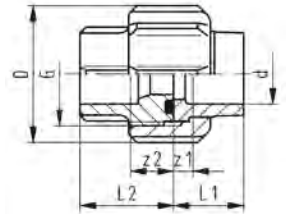
PROGEF Standard End cap PN10

Model:

- Material: PP-H
- * use pipe SDR 7.4

Remarks	d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)
*	16	10	727 960 105	0.006	20	25
	20	10	727 960 106	0.009	27	30
	25	10	727 960 107	0.015	30	36
	32	10	727 960 108	0.023	34	44
	40	10	727 960 109	0.035	38	53
	50	10	727 960 110	0.061	44	65
	63	10	727 960 111	0.102	51	80
	75	10	727 960 112	0.149	65	91
	90	10	727 960 113	0.277	77	111
	110	10	727 960 114	0.411	93	137

Socket fusion unions and o-rings



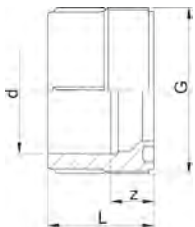
PROGEF Standard Union PN10

Model:

- Material: PP-H
 - Fusion socket metric
 - Jointing face: With O-ring groove
 - **For the dimensions d75-110 please see instructions for the installation**
- d75-d110 new thread design since 2022

d (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)
16	10	727 510 155	727 520 155	0.020
20	10	727 510 156	727 520 156	0.038
25	10	727 510 157	727 520 157	0.062
32	10	727 510 158	727 520 158	0.080
40	10	727 510 159	727 520 159	0.137
50	10	727 510 160	727 520 160	0.136
63	10	727 510 161	727 520 161	0.251
75	10	727 510 192	727 520 192	0.427
90	10	727 510 193	727 520 193	0.625
110	10	727 510 194	727 520 194	1.161

d (mm)	L1 (mm)	L2 (mm)	D (mm)	G (inch)	z1 (mm)	z2 (mm)	Size	O-Ring EPDM	O-Ring FKM
16	18	24	35	3/4	3	9	15,54 x 2,62	748.410.005	749.410.005
20	19	26	48	1	3	10	20,22 x 3,53	748.410.006	749.410.006
25	21	28	58	1 1/4	3	10	28,17 x 3,53	748.410.007	749.410.007
32	23	30	65	1 1/2	3	10	32,93 x 3,53	748.410.008	749.410.008
40	25	34	79	2	3	12	40,65 x 5,34	748.410.009	749.410.009
50	28	39	91	2 1/4	3	14	46,99 x 5,34	748.410.010	749.410.010
63	32	47	111	2 3/4	3	18	59,69 x 5,34	748.410.011	749.410.011
75	36	51	138	S110x5	3	18	74,63 x 5,34	748.410.383	749.410.383
90	42	55	161	S130x5	5	18	94,62 x 5,34	748.410.248	749.410.248
110	49	54	191	S155x5	6	12	114,7 x 6,99	748.410.384	749.410.384

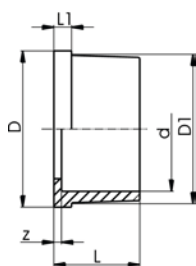


PROGEF Standard Union bush PN10

Model:

- Material: PP-H
 - Fusion socket metric
 - **For the dimensions d75-110 please see instructions for the installation**
- d75-d110 new thread design since 2022

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	z (mm)	G (kierre R/ Rp BS) (inch)
16	10	727 840 155	0.006	24	11	3/4
20	10	727 840 156	0.011	26	12	1
25	10	727 840 157	0.012	28	12	1 1/4
32	10	727 840 158	0.021	30	12	1 1/2
40	10	727 840 159	0.033	34	14	2
50	10	727 840 160	0.039	39	16	2 1/4
63	10	727 840 161	0.076	47	20	2 3/4
75	10	727 840 192	0.080	51	18	S110x5
90	10	727 840 193	0.220	55	18	S130x5
110	10	727 840 194	0.303	54	12	S155x5

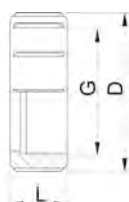


PROGEF Standard union end PN10

Model:

- Material: PP-H
- Fusion socket metric

d	SDR	FM	Code	Weight	L	L1	D	D1	z
(mm)				(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
16			727 500 105	0.003	18	4	24	22	3
20			727 500 106	0.006	19	5	30	28	3
25			727 500 107	0.011	21	5	39	36	3
32			727 500 108	0.014	23	6	45	42	3
40			727 500 109	0.025	25	6	57	53	3
50			727 500 110	0.025	28	7	63	59	3
63			727 500 111	0.043	32	8	79	74	3
75	11	IR	727 500 312	0.090	36	10	103	91	3
90	11	IR	727 500 313	0.130	42	11	123	108	5
110	11	IR	727 500 314	0.220	49	12	148	131	6

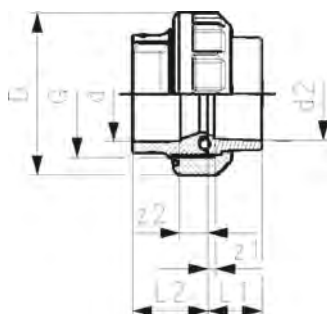


PROGEF Standard Union nut PP-H

Model:

- Material: PP glass-fibre reinforced
- d75-d110 new thread design since 2022

PN	Butt Fusion d	G (R/Rp BS Thread)	Socket Fusion d	Code	Weight	L	D
(bar)	(mm)	(inch)	(mm)		(kg)	(mm)	(mm)
10	16	3/4	16	727 890 405	0.007	21	35
10	20	1	20	727 890 406	0.023	21	47
10	25	1 1/4	25	727 890 407	0.035	23	56
10	32	1 1/2	32	727 890 408	0.044	24	63
10	40	2	40	727 890 409	0.044	27	77
10	50	2 1/4	50	727 890 410	0.062	30	84
10	63	2 3/4	63	727 890 411	0.119	39	111
10	110	S130x5	90	727 890 113	0.400	48	161
10		S155x5	110	727 890 114	0.499	52	191
10	75 - 90	S110x5	75	727 890 112	0.205	46	138

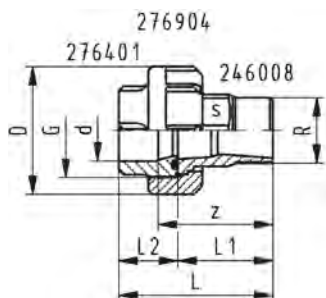


PROGEF Standard Adapter union PN10 Metric BS Inch

Model:

- Material: PP-H
- Fusion socket metric
- Jointing face: With O-ring groove

d	PN	d2	Code	Weight	L1	L2	D	G (kierre R/Rp BS)	z1	z2
(mm)	(bar)	(inch)		(kg)	(mm)	(mm)	(mm)	(inch)	(mm)	(mm)
20	10	1/2	727 513 006	0.041	19	26	48	1	5	12
25	10	3/4	727 513 007	0.061	21	28	58	1 1/4	5	12
32	10	1	727 513 008	0.079	23	30	65	1 1/2	5	12
40	10	1 1/4	727 513 009	0.108	25	34	79	2	5	14
50	10	1 1/2	727 513 010	0.133	28	39	91	2 1/4	5	16
63	10	2	727 513 011	0.252	32	47	111	2 3/4	5	20

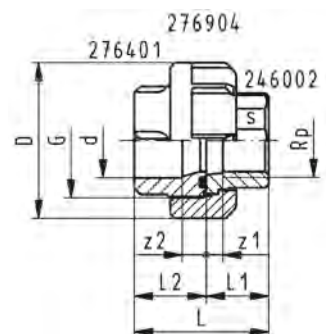


PROGEF Standard Adaptor union PN10 PP-H/malleable iron galvanised metric R

Model:

- Gasket: O-ring EPDM
- Union End: Malleable iron with taper male thread R
- Union bush: fusion socket PP-H metric
- Union Nut: PP-H

d	Thread Type	Size	PN	Code	Weight	L	L1	L2	D	G	s	z
(mm)		(inch)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(inch)	(mm)	(mm)
20	R	½	10	727 530 806	0.112	66	40	26	43	1	25	50
25	R	¾	10	727 530 807	0.171	71	43	28	51	1 1/4	31	53
32	R	1	10	727 530 808	0.236	78	48	30	58	1 1/2	38	58
40	R	1 ¼	10	727 530 809	0.379	91	57	34	72	2	48	69
50	R	1 ½	10	727 530 810	0.512	98	59	39	83	2 1/4	54	73
63	R	2	10	727 530 811	0.763	109	62	47	100	2 3/4	67	80



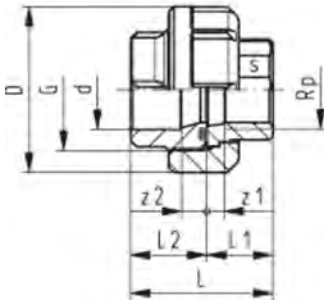
PROGEF Standard Adaptor union PN10 PP-H/malleable iron galvanised metric Rp

Model:

- Union End: malleable iron with parallel female thread Rp
- Union bush: fusion socket PP-H metric
- Union Nut: PP-H
- Gasket: O-ring EPDM

d	Thread Type	Size	PN	Code	Weight
(mm)		(inch)	(bar)		(kg)
20	Rp	½	10	727 530 306	0.073
25	Rp	¾	10	727 530 307	0.118
32	Rp	1	10	727 530 308	0.199
40	Rp	1 ¼	10	727 530 309	0.276
50	Rp	1 ½	10	727 530 310	0.317
63	Rp	2	10	727 530 311	0.579

d	L	L1	L2	D	G	s	z1	z2
(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)
20	48	22	26	43	1	25	9	10
25	50	22	28	51	1 1/4	31	7	10
32	56	26	30	58	1 1/2	38	9	10
40	65	31	34	72	2	48	12	12
50	72	33	39	83	2 1/4	54	14	14
63	82	35	47	100	2 3/4	67	11	18



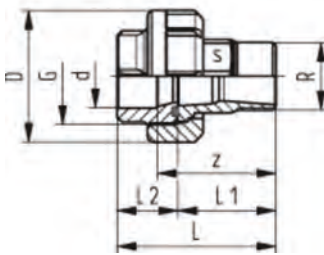
PROGEF Standard Adaptor union PN10 PP-H/brass metric Rp

Model:

- Union Nut: PP-H
- Union bush: fusion socket PP-H metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)
20	Rp	½	10	727 550 506	0.091
25	Rp	¾	10	727 550 507	0.152
32	Rp	1	10	727 550 508	0.194
40	Rp	1 ¼	10	727 550 509	0.317
50	Rp	1 ½	10	727 550 510	0.436
63	Rp	2	10	727 550 511	0.774

d (mm)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	s (mm)	G (inch)	z1 (mm)	z2 (mm)
20	48	22	26	48	25	1	7	10
25	53	25	28	58	30	1 1/4	9	10
32	57	27	30	65	36	1 1/2	8	10
40	65	31	34	79	46	2	10	12
50	74	35	39	91	55	2 1/4	13	14
63	87	40	47	105	65	2 3/4	14	18

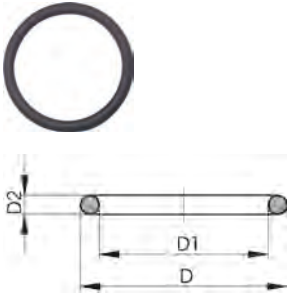


PROGEF Standard adaptor union PN10 PP-H/brass metric R

Model:

- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM
- Union Nut: PP-H
- Union bush: fusion socket PP-H metric

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	s (mm)	G (inch)	z (mm)
20	R	½	10	727 550 906	0.130	63	37	26	48	25	1	47
25	R	½	10	727 550 957	0.203	65	37	28	58	30	1 1/4	47
25	R	¾	10	727 550 907	0.203	70	42	28	58	30	1 1/4	52
25	R	1	10	727 550 967	0.318	99	46	30	58	30	1 1/4	81
32	R	½	10	727 550 958	0.298	67	37	30	65	36	1 1/2	47
32	R	¾	10	727 550 968	0.298	72	42	30	65	36	1 1/2	52
32	R	1	10	727 550 908	0.389	76	46	30	65	36	1 1/2	56
40	R	1 ¼	10	727 550 909	0.493	86	52	34	79	46	2	64
50	R	1 ½	10	727 550 910	0.650	95	56	39	91	55	2 1/4	70
63	R	2	10	727 550 911	1.123	114	67	47	105	65	2 3/4	85



O-Ring Union EPDM/FKM

Model:

- For ecoFIT, PROGEF Std/Plus, SYGEF Std unions and adapter unions for butt fusion
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

Note:

For the O-Rings of new unions as of 10/2022, see respective union datasheet

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	D (mm)	D1 (mm)	D2 (mm)
20	15	748 410 006	0.002	749 410 006	27.28	20.22	3.53
25	20	748 410 007	0.002	749 410 007	35.23	28.17	3.53
32	25	748 410 008	0.003	749 410 008	39.99	32.93	3.53
40	32	748 410 009	0.003	749 410 009	51.33	40.65	5.34
50	40	748 410 010	0.004	749 410 010	57.68	46.99	5.34
63	50	748 410 011	0.005	749 410 011	70.37	56.69	5.34

Socket fusion transition fittings

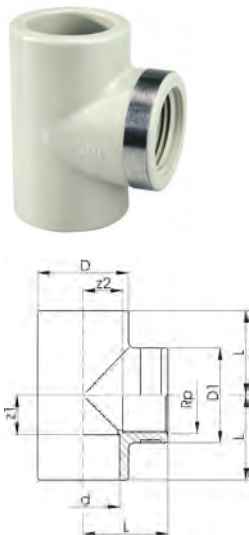


PROGEF Standard Elbow 90° PN10 metric Rp

Model:

- Material: PP-H
- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (lb)	L (mm)	D (mm)	z1 (mm)	z2 (mm)
20	Rp	½	10	727 100 206	0.049	28	30	14	14
25	Rp	¾	10	727 100 207	0.077	32	35	16	16
32	Rp	1	10	727 100 208	0.126	38	44	20	20
40	Rp	1 ¼	10	727 100 209	0.192	44	54	24	24

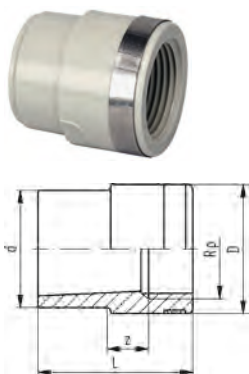


PROGEF Standard Tee 90° PN10 metric Rp

Model:

- Material: PP-H
- Line, with fusion socket metric
- Branch, with BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)	D1 (mm)	z1 (mm)	z2 (mm)
20	Rp	½	10	727 200 206	0.030	28	31	30	14	14
25	Rp	¾	10	727 200 207	0.042	32	36	35	16	16
32	Rp	1	10	727 200 208	0.071	38	44	45	20	20
40	Rp	1 ¼	10	727 200 209	0.107	44	54	55	24	24

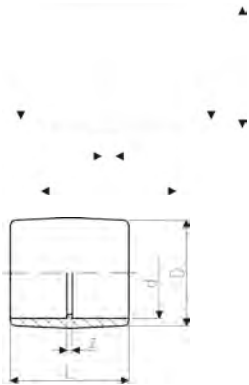


PROGEF Standard Reducing bush PN10 metric Rp

Model:

- Material: PP-H
- With fusion spigot metric and BSP parallel female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	z (mm)
20	Rp	¼	10	727 910 433	0.011	36	7
20	Rp	¾	10	727 910 434	0.011	36	7
25	Rp	½	10	727 910 437	0.015	45	6
32	Rp	¾	10	727 910 441	0.022	47	8
40	Rp	1	10	727 910 446	0.039	53	9
50	Rp	1 ¼	10	727 910 452	0.061	55	10

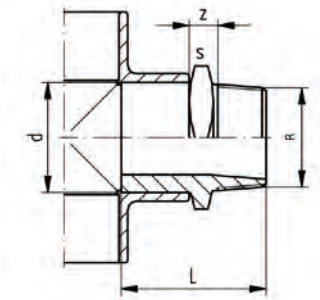


PROGEF Standard Adaptor socket PN10 Metric Inch BS

Model:

- Material: PP-H
- With fusion socket metric and BS Inch (ASTM)

d (mm)	d1 (inch)	PN (bar)	Code	Weight (kg)	L (mm)	d2 (mm)	z (mm)
20	¾	10	727 913 006	0.014	35	31	7
25	¾	10	727 913 007	0.019	39	36	7
32	1	10	727 913 008	0.025	43	44	7
40	1 ¼	10	727 913 009	0.040	48	54	8
50	1 ½	10	727 913 010	0.074	54	66	8
63	2	10	727 913 011	0.130	62	82	8
90	3	10	727 913 013	0.234	81	112	10
110	4	10	727 913 014	0.389	96	134	12

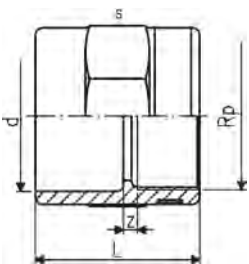


PROGEF Standard Adaptor nipple PN10 Metric R

Model:

- Material: PP-H
- With fusion spigot metric and R tapered male thread
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)	z (mm)
16	R	¾	10	727 910 505	0.008	37	27	13
20	R	½	10	727 910 506	0.011	42	32	13
25	R	¾	10	727 910 507	0.015	46	36	13
32	R	1	10	727 910 508	0.027	52	46	12
40	R	1 ¼	10	727 910 509	0.040	56	55	14
50	R	1 ½	10	727 910 510	0.061	60	65	15
63	R	2	10	727 910 511	0.100	69	80	16

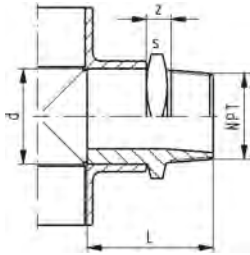


PROGEF Standard Adaptor socket PN10 Metric Rp

Model:

- Material: PP-H
- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)	z (mm)
20	Rp	¾	10	727 910 205	0.017	35	32	7
20	Rp	½	10	727 910 206	0.018	40	32	7
25	Rp	¾	10	727 910 207	0.025	42	36	7
32	Rp	1	10	727 910 208	0.040	48	46	7
40	Rp	1 ¼	10	727 910 209	0.064	53	55	7
50	Rp	1 ½	10	727 910 210	0.089	54	65	9
63	Rp	2	10	727 910 211	0.144	62	80	9

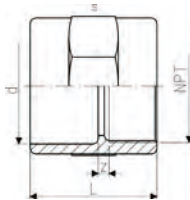


PROGEF Standard Adaptor nipple PN10 Metric NPT male

Model:

- Material: PP-H
- With fusion spigot metric and NPT tapered male thread
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)	z (mm)
16	NPT	¾	10	727 914 555	0.008	37	27	13
20	NPT	½	10	727 914 556	0.013	42	32	13
25	NPT	¾	10	727 914 557	0.015	46	36	13
32	NPT	1	10	727 914 558	0.026	52	46	12
40	NPT	1 ¼	10	727 914 559	0.041	56	55	14
50	NPT	1 ½	10	727 914 560	0.061	60	65	15
63	NPT	2	10	727 914 561	0.100	69	80	16

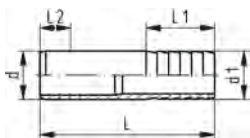


PROGEF Standard Adaptor socket PN10 Metric NPT female

Model:

- Material: PP-H
- With fusion socket metric and NPT tapered female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)	z (mm)
20	NPT	½	10	727 914 266	0.018	40	32	7
25	NPT	¾	10	727 914 267	0.023	42	36	7
32	NPT	1	10	727 914 268	0.039	48	46	7
40	NPT	1 ¼	10	727 914 269	0.056	53	55	7
50	NPT	1 ½	10	727 914 270	0.095	54	65	9
63	NPT	2	10	727 914 271	0.145	62	80	9

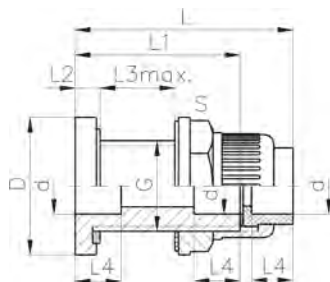


PROGEF Standard Hose connector PN10 Metric

Model:

- Material: PP-H
- With socket fusion spigot metric and parallel hose connection

d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)
20	20	10	727 960 406	0.008	78	27	14
25	25	10	727 960 407	0.014	91	36	16
32	32	10	727 960 408	0.025	100	36	18
40	40	10	727 960 409	0.038	104	42	20
50	50	10	727 960 610	0.061	113	48	23
63	60	10	727 960 611	0.084	147	50	27



PROGEF Standard Tank adaptor

Model:

- End connection: union with fusion socket metric
- Gasket: flat gasket EPDM
- Material: PP-H

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 max (mm)	L4 (mm)	D (mm)	s (mm)	G (inch)	Diameter of bore in tank side (mm)
20	10	167 050 226	0.098	89	67	11	30	16	56	38	1	35
25	10	167 050 227	0.153	96	72	12	32	18	65	47	1 ¼	43
32	10	167 050 228	0.185	100	75	12	33	20	70	53	1 ½	49
40	10	167 050 229	0.292	106	78	12	32	22	95	75	2	61
50	10	167 050 230	0.308	112	82	13	32	25	95	75	2 ¼	67
63	10	167 050 231	0.493	122	87	13	33	29	115	101	2 ¾	83

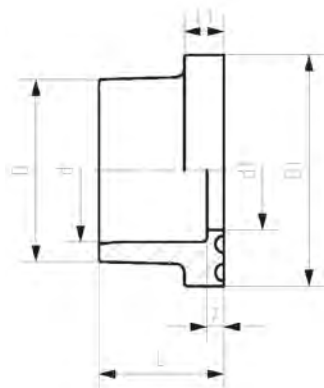
Socket fusion flange adaptors, flanges and gaskets



PROGEF Standard Flange adaptor PN10 Jointing face flat/serrated

Model:

- Material: PP-H
- Connection: according to EN ISO 15494-1
- Counterpart: flange adaptor flat/serrated or with O-ring groove
- Flanges: PP - steel, No. 27 70 02, PP-V, No. 27 70 04
- ANSI: profile flange gasket EPDM No. 48 44 05, FKM No. 49 44 05
- ISO: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07



d (mm)	DN (mm)	Standard	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	D (mm)	D1 (mm)	d1 (mm)	z (mm)
20	15	Metric/ANSI	10	727 790 206	0.011	19	7	27	45	16	5
25	20	Metric	10	727 790 207	0.022	21	9	33	58	21	5
25	20	ANSI	10	727 790 257	0.018	21	7	33	54	21	5
32	25	Metric	10	727 790 208	0.033	23	10	41	68	28	5
32	25	ANSI	10	727 790 258	0.026	23	7	41	63	28	5
40	32	Metric	10	727 790 209	0.046	25	11	50	78	36	5
40	32	ANSI	10	727 790 259	0.041	25	8	50	73	36	5
50	40	Metric	10	727 790 210	0.060	28	12	61	88	45	5
50	40	ANSI	10	727 790 260	0.055	28	8	61	82	45	5
63	50	Metric/ANSI	10	727 790 211	0.090	32	14	76	102	57	5
75	65	Metric/ANSI	10	727 790 212	0.155	36	16	90	122	69	5
90	80	Metric	10	727 790 213	0.204	42	17	108	138	84	7
90	80	ANSI	10	727 790 263	0.189	36	16	108	133	84	5
110	100	Metric/ANSI	10	727 790 214	0.286	48	18	131	158	100	7



PROGEF Standard Flange adaptor PN10 Jointing face with o-ring groove

Model:

- Material: PP-H
- Counterpart: flange adaptor flat/serrated, No. 27 79 02
- Flanges: PP - steel, No. 27 70 02 (mm) or No. 27 70 12 (ANSI), PP-V, No. 27 70 04
- Gasket: O-ring EPDM No. 48 41 01, FKM No. 49 41 01



d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
20	15	10	727 810 106	0.007	27	34	16	22	9	8
25	20	10	727 810 107	0.012	33	41	21	24	10	8
32	25	10	727 810 108	0.018	41	50	28	26	10	8
40	32	10	727 810 109	0.027	50	61	36	30	13	10
50	40	10	727 810 110	0.043	61	73	45	33	13	10
63	50	10	727 810 111	0.070	76	90	57	37	14	10
75	65	10	727 810 112	0.105	90	106	69	40	15	10
90	80	10	727 810 113	0.170	108	125	84	47	16	12
110	100	10	727 810 114	0.263	131	150	100	55	18	13



PROGEF Standard Outlet flange adaptor PN6 Jointing face flat

Model:

- Material: PP-H
- With fusion socket metric
- Suitable for wafer check valves Type 369
- To be installed on the outlet side of the valve
- Use flanges PP-V 27 70 04

d	DN	PN	Code	Weight	L	L1	D	D1	z
(mm)	(mm)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
40	32	6	727 800 009	0.068	55	11	50	78	35
50	40	6	727 800 010	0.087	61	12	61	88	38
63	50	6	727 800 011	0.136	69	14	76	102	41
75	65	6	727 800 012	0.214	79	16	90	122	49
90	80	6	727 800 013	0.350	100	17	107	138	65
110	100	6	727 800 014	0.468	105	18	130	158	62



Flanges PP-V (full plastic)

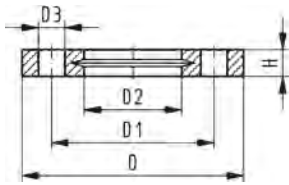
Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

d	DN	d	PN	Standard	Bolt / circle	Design	Code	Weight
(mm)	(mm)	(inch)	(bar)					(kg)
20	15		16	Metric	PN10	Butt/Socket	727 700 406	0.093
25	20		16	Metric	PN10	Butt/Socket	727 700 407	0.120
32	25		16	Metric	PN10	Butt/Socket	727 700 408	0.151
40	32		16	Metric	PN10	Butt/Socket	727 700 409	0.244
50	40		16	Metric	PN10	Butt/Socket	727 700 410	0.297
63	50		16	Metric	PN10	Butt/Socket	727 700 411	0.362
75	65		16	Metric	PN10	Butt/Socket	727 700 412	0.487
90	80		16	Metric	PN10	Socket	727 700 413	0.550
110	100		16	Metric	PN10	Socket	727 700 414	0.640
140	125		16	Metric	PN10	Socket	727 700 416	0.781
160	150		16	Metric/ASME	PN10/ class 150	Socket	727 700 417	1.050
200	200		16	Metric/ASME	PN10/ class 150	Socket	727 700 419	1.629
225	200		16	Metric/ASME	PN10/ class 150	Socket	727 700 420	1.400
250	250		10	Metric	PN10	Socket	727 700 421	2.229
280	250		10	Metric	PN10	Socket	727 700 422	1.651
315	300		10	Metric	PN10	Socket	727 700 423	2.461
355	350		10	Metric	PN10	Socket	727 700 424	3.000
400	400		10	Metric	PN10	Socket	727 700 425	5.135

d	D	D1	D2	D3	H max.	AL	SC
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
20	95	65	28	14	16	4	M12
25	105	75	34	14	17	4	M12
32	115	85	42	14	18	4	M12
40	140	100	51	18	20	4	M16
50	150	110	62	18	22	4	M16
63	165	125	78	18	24	4	M16
75	185	145	92	18	26	4	M16
90	200	160	110	18	27	8	M16
110	220	180	133	18	28	8	M16
140	250	210	167	18	30	8	M16
160	285	240	190	22	32	8	M20



d	D	D1	D2	D3	H max.	AL	SC
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
200	340	297	226	22	34	8	M20
225	340	295	250	22	34	8	M20
250	395	350	277	22	38	12	M20
280	395	350	310	22	38	12	M20
315	445	400	348	22	42	12	M20
355	515	460	388	22	46	16	M20
400	574	515	442	26	50	16	M24



Flanges PP-Steel

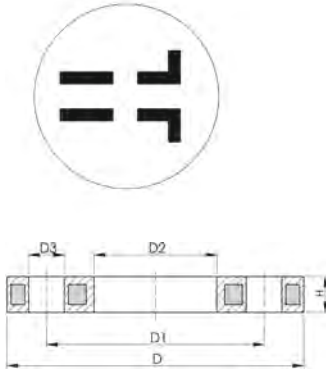
Model:

- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

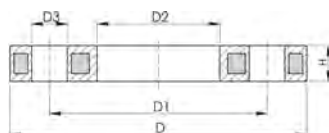
¹⁾ FM 1613 approved – 15 bar

²⁾ Profiled loose flange



d	DN	D	PN	Standard	Bolt / circle	Design	Code	Weight
(mm)	(mm)	(mm)	(bar)					(kg)
20	15	95	16	Metric	PN10	Butt/Socket	727 700 206	0.216
25	20	105	16	Metric	PN10	Butt/Socket	727 700 207	0.279
32	25	115	16	Metric	PN10	Butt/Socket	727 700 208	0.429
40	32	140	16	Metric	PN10	Butt/Socket	727 700 209	0.621
50	40	150	16	Metric	PN10	Butt/Socket	727 700 210	0.722
63	50	165	16	Metric	PN10	Butt/Socket	727 700 211	0.900
75	65	185	16	Metric	PN10	Butt/Socket	727 700 212	1.110
90	80	200	16	Metric	PN10	Socket	727 700 213	1.369
110	100	220	16	Metric	PN10	Socket	727 700 214	1.522
125	125	250	16	Metric	PN10	Socket	727 700 815	2.475
140	125	250	16	Metric	PN10	Socket	727 700 816	2.033
160	150	285	16	Metric/ASME	PN10/ class 150	Socket	727 700 817	3.167
200	200	340	16	Metric/ASME	PN10/ class 150	Socket	727 700 819	6.143
225	200	340	16	Metric/ASME	PN10/ class 150	Socket	727 700 820	4.448
250	225	395	16	Metric	PN10	Socket	727 700 031	8.340
250	250	395	16	Metric	PN10	Socket	727 700 821	7.179
280	250	395	16	Metric	PN10	Socket	727 700 822	5.547
315	300	445	16	Metric	PN10	Socket	727 700 823	6.980
355	350	515	16	Metric	PN10	Socket	727 700 824	12.465
400	400	574	16	Metric	PN10	Socket	727 700 825	17.607

d	D1	D2	D3	H max.	AL	SC
(mm)	(mm)	(mm)	(mm)	(mm)		
20	65	28	14	12	4	M12
25	75	34	14	12	4	M12
32	85	42	14	16	4	M12
40	100	51	18	16	4	M16
50	110	62	18	20	4	M16
63	125	78	18	20	4	M16
75	145	92	18	20	4	M16
90	160	110	18	20	8	M16
110	180	133	18	20	8	M16
125	210	150	18	26	8	M16
140	210	167	18	26	8	M16
160	240	190	22	26	8	M20
200	295	226	22	29	8	M20
225	297	250	22	29	8	M20
250	325	277	22	32	8	M20



d	D1	D2	D3	H max.	AL	SC
(mm)	(mm)	(mm)	(mm)	(mm)		
250	350	277	22	32	12	M20
280	350	310	22	32	12	M20
315	400	348	22	36	12	M20
355	460	388	23	42	16	M20
400	515	442	26	42	16	M24

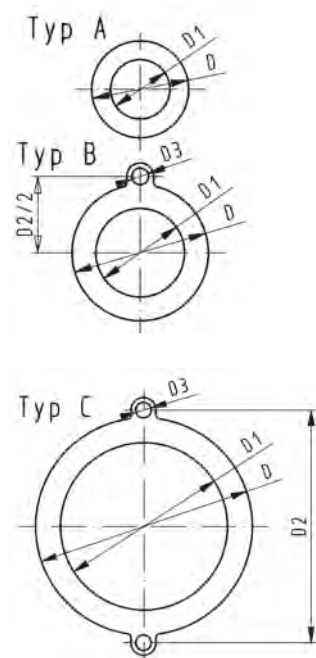


Flat gasket EPDM

Model:

- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flanges adaptors



d	DN	PN	Type	EPDM Code	Weight (kg)	D	D1	D2	D3	H	di FA
(mm)	(mm)	(bar)				(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	10	10	A	748 400 305	0.004	46	16			2	6 - 26
20	15	10	A	748 400 306	0.012	51	20			2	10 - 30
25	20	10	A	748 400 307	0.004	61	25			2	15 - 35
32	25	10	A	748 400 308	0.008	71	32			2	22 - 42
40	32	10	A	748 400 309	0.013	82	40			3	30 - 50
50	40	10	A	748 400 310	0.016	92	50			3	40 - 60
63	50	10	A	748 400 311	0.018	107	63			3	53 - 73
75	65	10	A	748 400 312	0.029	127	71			3	61 - 81
90	80	10	A	748 400 313	0.035	142	84			3	74 - 94
110	100	10	B	748 400 314	0.051	162	104	180	18	4	94 - 114
125	100	10	B	748 400 315	0.044	162	119	180	18	4	109 - 129
140	125	10	B	748 400 316	0.068	192	134	210	18	4	124 - 144
160 - 180	150	10	B	748 400 317	0.090	218	155	241	22	4	145 - 165
200	200	6	C	748 400 319	0.180	273	195	295	22	5	185 - 205
225	200	6	C	748 400 320	0.140	273	216	295	22	5	206 - 226
250	250	6	C	748 400 321	0.210	328	250	350	22	5	240 - 260
280	250	6	C	748 400 322	0.151	328	273	350	22	5	263 - 283
315	300	6	C	748 400 323	0.237	378	305	400	22	5	295 - 315

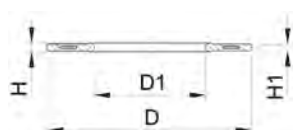


Profile Flange Gasket EPDM/FKM metric

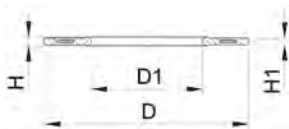
Model:

- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

di FA are the suitable inner diameters of flanges adaptors

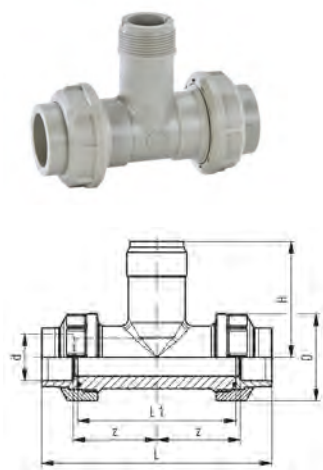


d	DN	PN	EPDM Code	FKM Code	Weight (kg)	D	D1	di FA	H	H1
(mm)	(mm)	(bar)				(mm)	(mm)	(mm)	(mm)	(mm)
16	10	16	748 440 705	749 440 705	0.012	46	16	6 - 16	4	3
20	15	16	748 440 706	749 440 706	0.013	51	20	10 - 20	4	3
25	20	16	748 440 707	749 440 707	0.014	61	22	12 - 22	4	3
32	25	16	748 440 708	749 440 708	0.019	71	28	18 - 28	4	3
40	32	16	748 440 709	749 440 709	0.026	82	40	30 - 40	4	3
50	40	16	748 440 710	749 440 710	0.039	92	46	36 - 46	4	3
63	50	16	748 440 711	749 440 711	0.050	107	58	48 - 58	5	4



d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
75	65	16	748 440 712	749 440 712	0.082	127	69	59 - 69	5	4
90	80	16	748 440 713	749 440 713	0.083	142	84	73 - 84	5	4
110	100	16	748 440 714	749 440 714	0.127	162	104	94 - 104	6	5
125	100	16	748 440 715	749 440 715	0.105	162	123	113 - 123	6	5
140	125	16	748 440 716	749 440 716	0.173	192	137	127 - 137	6	5
160 - 180	150	16	748 440 717	749 440 717	0.207	218	160	150 - 160	8	6
200	200	16	748 440 719	749 440 719	0.263	273	203	192 - 203	8	6
225	200	16	748 440 720	749 440 720	0.255	273	220	207 - 220	8	6
250	250	16	748 440 721	749 440 721	0.462	328	252	238 - 252	8	6
280	250	16	748 440 722	749 440 722	0.323	328	274	264 - 274	8	6
315	300	16	748 440 723	749 440 723	0.549	378	306	296 - 306	8	6
355	350	16	748 440 724	749 440 724	0.870	438	355	340 - 355	10	7
400	400	16	748 440 725	749 440 725	1.088	489	400	385 - 400	10	7
450	500	10	748 440 726	749 440 726	0.718	594	403	393 - 403	10	7
500	500	10	748 440 727	749 440 727	0.718	594	447	437 - 447	10	7
560	600	10	748 440 728	749 440 728	0.923	695	494	484 - 494	10	7
630	600	10	748 440 729	749 440 729	0.923	695	555	545 - 555	10	7
710	700	6	748 440 730		0.890	810	712	562 - 712	6	3
800	800	6	748 440 731		1.340	917	813	663 - 813	6	3
900	900	6	748 440 732		1.170	1017	915	765 - 915	6	3
1000	1000	6	748 440 733		1.360	1124	1016	866 - 1016	6	3

Socket fusion installation fittings



PROGEF Standard installation fitting type 310 PN10 For socket systems metric

Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- Union end with fusion socket PP-H

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

Attention:

- sensor length depends on installation fitting

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	727 310 006	0.136	727 310 036	0.136
25	20	727 310 007	0.190	727 310 037	0.190
32	25	727 310 008	0.250	727 310 038	0.250
40	32	727 310 009	0.356	727 310 039	0.356
50	40	727 310 010	0.510	727 310 040	0.510
63	50	727 310 011	0.800	727 310 041	0.645

d (mm)	L (mm)	L1 (mm)	D (mm)	H (mm)	z (mm)	Sensor Type
20	128	90	48	76	50	flow X0, pH XX
25	142	100	58	78	55	flow X0, pH XX
32	156	110	65	81	60	flow X0, pH XX
40	160	110	79	85	60	flow X0, pH XX
50	176	120	91	89	65	flow X0, pH XX
63	194	130	105	95	70	flow X0, pH XX

Ball valves type 546 Pro



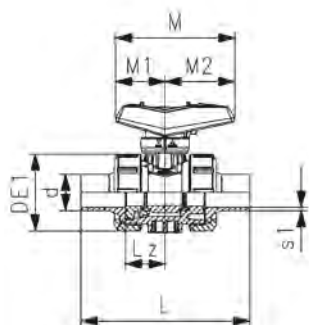
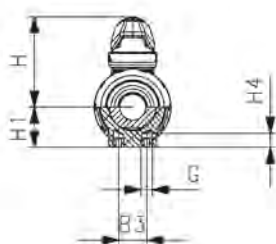
PROGEF Standard Ball Valve type 546 Pro PP-H With butt fusion spigots IR-Plus SDR11 ISO

Model:

- Lockable lever as standard
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	185	167 546 442	0.121	167 546 452	0.123
25	20	¾	10	350	167 546 443	0.183	167 546 453	0.185
32	25	1	10	700	167 546 444	0.260	167 546 454	0.263
40	32	1 ¼	10	1000	167 546 445	0.454	167 546 455	0.456
50	40	1 ½	10	1600	167 546 446	0.633	167 546 456	0.642
63	50	2	10	3100	167 546 447	1.151	167 546 457	1.180
75	65	2 ½	10	5000	167 546 448	2.822	167 546 458	2.602
90	80	3	10	7000	167 546 449	4.717	167 546 459	5.500
110	100	4	10	11000	167 546 450	6.171	167 546 460	8.700

d	B3	DE1	G	H	H1	H4	L	Lz	M	M1	M2	s1
(mm)	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	25	50	M6	197	27	12	130	28	82	35	47	1.9
25	25	58	M6	201	30	12	143	33	106	44	62	2.3
32	25	68	M8	207	36	12	150	36	106	44	62	3.0
40	45	84	M8	213	44	15	171	43	131	57	74	3.7
50	45	97	M8	219	51	15	191	45	131	57	74	4.6
63	45	124	M8	234	64	15	220	51	152	66	86	5.8
75	70	166	M8	234	85	15	266	68	270	64	206	8.2
90	70	200	M8	234	105	15	264	71	270	64	206	10.0
110	100	238	M12	234	123	22	301	82	320	64	206	12.0



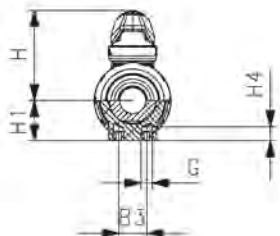
PROGEF Standard Ball Valve type 546 Pro With butt fusion spigots SDR17.6 ISO

Model:

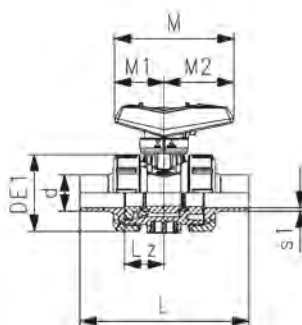
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
40	32	1 ¼	10	1000	167 546 065	0.450		0.450
50	40	1 ½	10	1600	167 546 066	0.635	167 546 076	0.635
63	50	2	10	3100	167 546 067	1.159	167 546 077	1.200
75	65	2 ½	10	5000	167 546 068	2.575	167 546 078	3.387
90	80	3	10	7000	167 546 069	4.731	167 546 079	5.500
110	100	4	10	11000	167 546 070	8.600	167 546 080	8.600



d	B3	DE1	G	H	H1	H4	L	Lz	M	M1	M2	s1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
40	45	84	M8	213	44	15	171	43	131	57	74	
50	45	97	M8	219	51	15	191	45	131	57	74	2.9
63	45	124	M8	234	64	15	220	51	152	66	86	3.6
75	70	166	M8	234	85	15	266	68	270	64	206	4.6
90	70	200	M8	234	105	15	264	71	270	64	206	5.5
110	120	238	M12	234	123	22	301	82	320	64	206	6.7



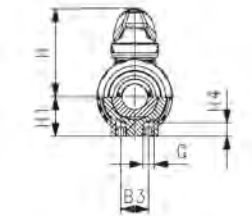
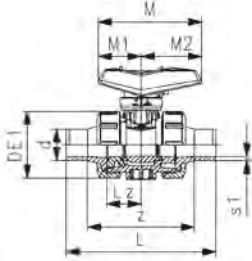
PROGEF Standard Ball Valve type 546 Pro With sockets fusion spigots PP-H ISO

Model:

- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	3/8	10	70	167 546 041	0.120	167 546 051	0.120
20	15	1/2	10	185	167 546 042	0.120	167 546 052	0.120
25	20	3/4	10	350	167 546 043	0.180	167 546 053	0.180
32	25	1	10	700	167 546 044	0.266	167 546 054	0.260
40	32	1 1/4	10	1000	167 546 045	0.450	167 546 055	0.450
50	40	1 1/2	10	1600	167 546 046	0.635	167 546 056	0.640
63	50	2	10	3100	167 546 047	1.174	167 546 057	1.210
75	65	2 1/2	10	5000	167 546 048	3.800	167 546 058	3.800
90	80	3	10	7000	167 546 049	5.600	167 546 059	5.600
110	100	4	10	11000	167 546 050	8.800	167 546 060	8.800

d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)	z (mm)
16	25	50	M6	197	27	12	110	28	82	35	47	3.0	84
20	25	50	M6	197	27	12	120	28	82	35	47	3.0	92
25	25	58	M6	201	30	12	139	33	106	44	62	3.0	107
32	25	68	M8	207	36	12	150	36	106	44	62	4.0	114
40	45	84	M8	213	44	15	170	43	131	57	74	4.5	130
50	45	97	M8	219	51	15	190	45	131	57	74	5.5	144
63	45	124	M8	234	64	15	220	51	152	66	86	7.0	166
75	70	166	M8	234	85	15	280	68	270	64	206	8.5	190
90	70	200	M8	234	105	15	196	71	270	64	206	10.0	92
110	120	238	M12	234	123	22	336	82	320	64	206	12.0	208



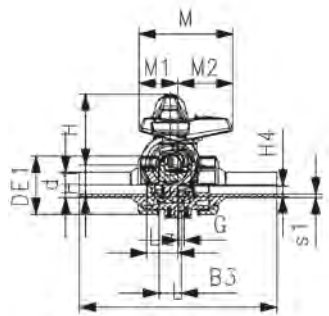
PROGEF Standard Ball valve type 546 Pro
With butt fusion spigots long PP-H SDR11 ISO

Model:

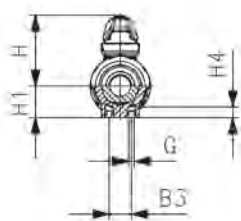
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	185	167 546 262	0.130	167 546 272	0.130
25	20	¾	10	350	167 546 263	0.195	167 546 273	0.195
32	25	1	10	700	167 546 264	0.280	167 546 274	0.280
40	32	1 ¼	10	1000	167 546 265	0.492	167 546 275	0.480
50	40	1 ½	10	1600	167 546 266	0.691	167 546 276	0.700
63	50	2	10	3100	167 546 267	1.274	167 546 277	1.288



d	B3	DE1	G	H	H1	H4	L	Lz	M	M1	M2	s1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	25	50	M6	197	27	12	130	28	82	35	47	1.9
25	25	58	M6	201	30	12	143	33	106	44	62	2.3
32	25	68	M8	207	36	12	150	36	106	44	62	3.0
40	45	81	M8	213	44	15	171	43	131	57	74	3.7
50	45	97	M8	219	51	15	191	45	131	57	74	4.6
63	45	124	M8	234	64	15	220	51	152	66	86	5.8



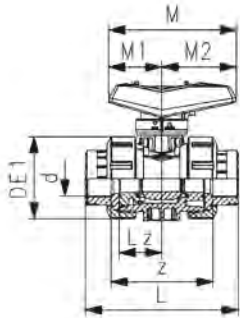
PROGEF Standard Ball Valve type 546 Pro With threaded sockets PP-H Iso Rp Re

Model:

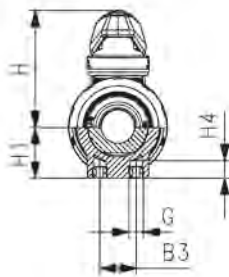
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	3/8	10	70	167 546 021	0.120	167 546 031	0.120
20	15	1/2	10	185	167 546 022	0.130	167 546 032	0.120
25	20	3/4	10	350	167 546 023	0.180	167 546 033	0.180
32	25	1	10	700	167 546 024	0.282	167 546 034	0.270
40	32	1 1/4	10	1000	167 546 025	0.460	167 546 035	0.460
50	40	1 1/2	10	1600	167 546 026	0.635	167 546 036	0.635
63	50	2	10	3100	167 546 027	1.190	167 546 037	1.190



d	B3	DE1	G	H	H1	H4	L	Lz	M	M1	M2	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	25	50	M6	197	27	12	95	28	82	35	47	69
20	25	50	M6	197	27	12	100	28	82	35	47	67
25	25	58	M6	201	30	12	114	33	106	44	62	78
32	25	68	M8	207	36	12	127	36	106	44	62	85
40	45	84	M8	213	44	15	146	43	131	57	74	100
50	45	97	M8	219	51	15	152	45	131	57	74	106
63	45	124	M8	234	64	15	177	51	152	66	86	121



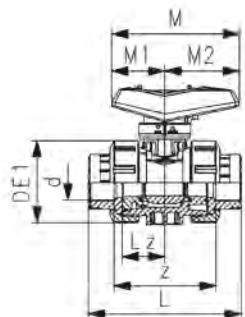
PROGEF Standard Ball valve type 546 Pro With threaded sockets PP-H ASTM NPT Re

Model:

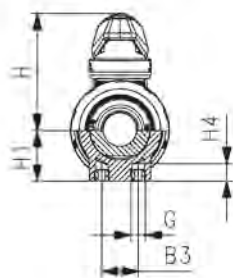
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	$\frac{3}{8}$	10	70	167 546 321	0.120	167 546 331	0.120
20	15	$\frac{1}{2}$	10	185	167 546 322	0.128	167 546 332	0.120
25	20	$\frac{3}{4}$	10	350	167 546 323	0.180	167 546 333	0.180
32	25	1	10	700	167 546 324	0.270	167 546 334	0.270
40	32	1 $\frac{1}{4}$	10	1000	167 546 325	0.460	167 546 335	0.460
50	40	1 $\frac{1}{2}$	10	1600	167 546 326	0.635	167 546 336	0.635
63	50	2	10	3100	167 546 327	1.204	167 546 337	1.190



d	B3	DE1	G	H	H1	H4	L	Lz	M	M1	M2	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	25	50	M6	197	27	12	95	28	82	35	47	69
20	25	50	M6	197	27	12	100	28	82	35	47	67
25	25	58	M6	201	30	12	114	33	106	44	62	78
32	25	68	M8	207	36	12	127	36	106	44	62	85
40	45	84	M8	213	44	15	146	43	131	57	74	100
50	45	97	M8	219	51	15	152	45	131	57	74	106
63	45	124	M8	234	64	15	177	51	152	66	86	121



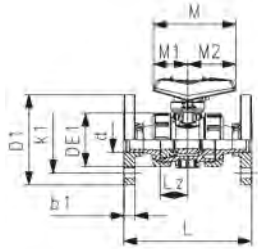
PROGEF Standard Ball Valve type 546 Pro With fixed flanges PP-H ser. ISO

Model:

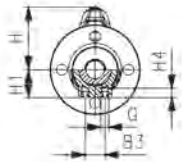
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	185	167 546 182	0.245	167 546 192	0.245
25	20	¾	10	350	167 546 183	0.345	167 546 193	0.345
32	25	1	10	700	167 546 184	0.492	167 546 194	0.495
40	32	1 ¼	10	1000	167 546 185	0.820	167 546 195	0.824
50	40	1 ½	10	1600	167 546 186	1.052	167 546 196	1.066
63	50	2	10	3100	167 546 187	1.751	167 546 197	1.751



d	b1	B3	DE1	D1	G	H	H1	H4	k1	L	Lz	M	M1	M2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	12	25	50	95	M6	197	27	12	56	130	28	82	35	47
25	12	25	58	105	M6	201	30	12	75	150	33	106	44	62
32	14	25	68	115	M8	207	36	12	85	160	36	106	44	62
40	16	45	84	140	M8	213	44	15	100	180	43	131	57	74
50	16	45	97	150	M8	219	51	15	110	200	45	131	57	74
63	16	45	124	165	M8	234	64	15	125	230	51	152	66	86



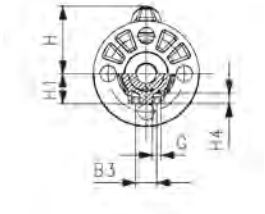
PROGEF Standard Ball Valve type 546 Pro
With backing flanges PP-St ISO with PP-H

Model:

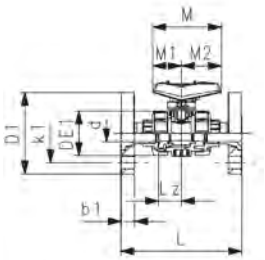
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



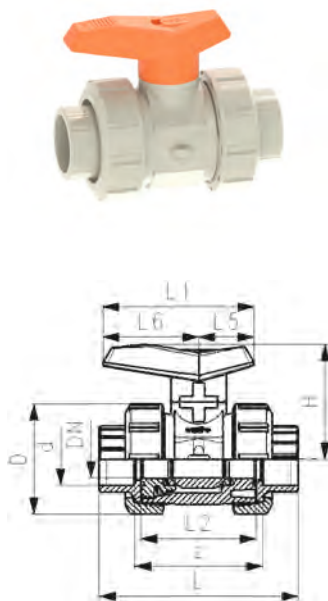
d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
75	65	2 1/2	10	5000	167 546 808	6.352	167 546 818	5.417
90	80	3	10	7000	167 546 809	7.907	167 546 819	7.941
110	100	4	10	11000	167 546 810	10.896	167 546 820	9.928



d	b1	B3	D1	DE1	G	H	H1	H4	k1	L	Lz	M	M1	M2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
75	18	70	166	166	M8	234	85	15	145	290	68	270	64	206
90	20	70	200	200	M8	234	105	15	160	310	71	270	64	206
110	20	120	238	238	M12	234	123	22	180	350	82	320	64	206

Ball valves type 542

Ball valve type 542 PP-H With fusion socket



Model:

- For easy installation and removal
- Ball seat PTFE/ red lever

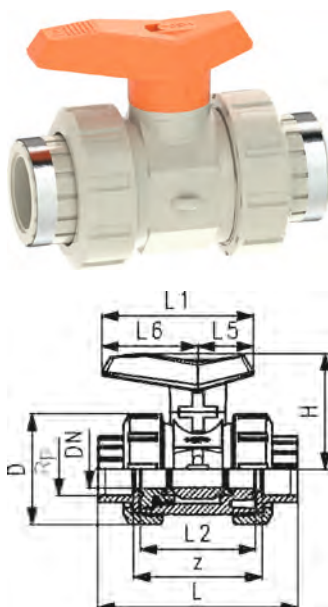
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d	DN	Size	PN	kv-value (Δp=1 bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
(mm)	(mm)	(inch)	(bar)	(l/min)				
16	10	3/8	10	71	167 542 001	0.115	167 542 011	0.115
20	15	1/2	10	185	167 542 002	0.114	167 542 012	0.114
25	20	3/4	10	350	167 542 003	0.177	167 542 013	0.177
32	25	1	10	700	167 542 004	0.244	167 542 014	0.244
40	32	1 1/4	10	1000	167 542 005	0.435	167 542 015	0.435
50	40	1 1/2	10	1600	167 542 006	0.597	167 542 016	0.597
63	50	2	10	3100	167 542 007	1.104	167 542 017	1.104

d	D	H	L	L1	L2	L5	L6	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	50	54	93	72	56	26	46	67
20	50	54	95	72	56	26	46	67
25	58	66	109	93	65	34	59	77
32	68	71	119	93	71	34	59	83
40	84	85	137	110	85	41	69	97
50	97	92	147	110	89	41	69	101
63	124	108	169	128	101	49	79	115

Ball valve type 542 PP-H With threaded socket (Rp) reinforced With PTFE ball seal



Model:

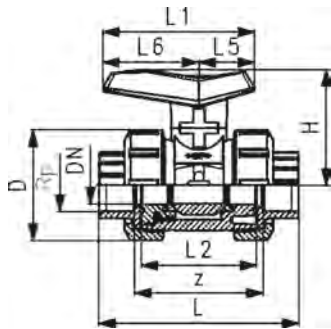
- For easy installation and removal
- Ball seat PTFE/ red lever

Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d	DN	Thread Type	Size	PN	kv-value (Δp=1 bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
(mm)	(mm)		(inch)	(bar)	(l/min)				
16	10	Rp	3/8	10	71	167 542 021	0.120	167 542 031	0.120
20	15	Rp	1/2	10	185	167 542 022	0.130	167 542 032	0.130
25	20	Rp	3/4	10	350	167 542 023	0.180	167 542 033	0.180
32	25	Rp	1	10	700	167 542 024	0.282	167 542 034	0.282
40	32	Rp	1 1/4	10	1000	167 542 025	0.460	167 542 035	0.460
50	40	Rp	1 1/2	10	1600	167 542 026	0.635	167 542 036	0.635
63	50	Rp	2	10	3100	167 542 027	1.190	167 542 037	1.190

d	D	H	L	L1	L2	L5	L6	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	50	54	96	72	56	26	46	70
20	50	54	99	72	56	26	46	66
25	58	66	111	93	65	34	59	75



d	D	H	L	L1	L2	L5	L6	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
32	68	71	127	93	71	34	59	85
40	84	85	147	110	85	41	69	101
50	97	92	157	110	89	41	69	111
63	124	108	184	128	101	49	79	129



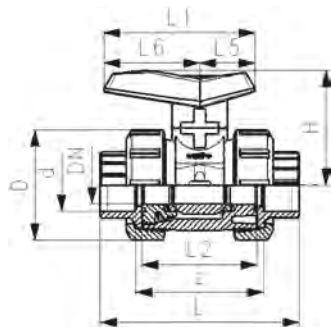
Ball valve type 542 PP-H With threaded socket (NPT)

Model:

- For easy installation and removal
- Ball seat PTFE/ red lever

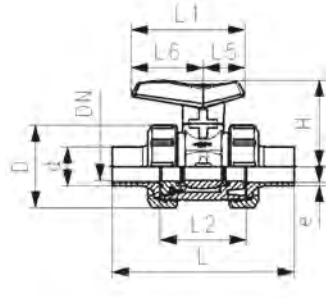
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	$\frac{3}{8}$	10	71	167 542 321	0.120	167 542 331	0.120
20	15	$\frac{1}{2}$	10	185	167 542 322	0.128	167 542 332	0.128
25	20	$\frac{3}{4}$	10	350	167 542 323	0.180	167 542 333	0.180
32	25	1	10	700	167 542 324	0.270	167 542 334	0.270
40	32	1 $\frac{1}{4}$	10	1000	167 542 325	0.460	167 542 335	0.460
50	40	1 $\frac{1}{2}$	10	1600	167 542 326	0.635	167 542 336	0.635
63	50	2	10	3100	167 542 327	1.204	167 542 337	1.204

d	D	H	L	L1	L2	L5	L6	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	50	54	96	72	56	26	46	70
20	50	54	99	72	56	26	46	66
25	58	66	111	93	65	34	59	78
32	68	71	127	93	71	34	59	86
40	84	85	147	110	85	41	69	103
50	97	92	157	110	89	41	69	113
63	124	108	184	128	101	49	79	138



Ball valve type 542 PP-H With butt fusion spigots SDR11 metric

Model:

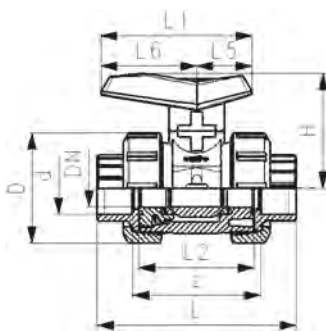
- For easy installation and removal
- Ball seat PTFE/ red lever

Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	SDR	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	11	167 542 442	0.121	167 542 452	0.121
25	20	¾	10	350	11	167 542 443	0.183	167 542 453	0.183
32	25	1	10	700	11	167 542 444	0.260	167 542 454	0.260
40	32	1 ¼	10	1000	11	167 542 445	0.454	167 542 455	0.454
50	40	1 ½	10	1600	11	167 542 446	0.633	167 542 456	0.633
63	50	2	10	3100	11	167 542 447	1.151	167 542 457	1.151

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	e (mm)
20	50	54	130	72	56	26	46	1.9
25	58	66	144	93	65	34	59	2.3
32	68	71	151	93	71	34	59	2.9
40	84	85	171	110	85	41	69	3.7
50	97	92	190	110	89	41	69	4.6
63	124	108	221	128	101	49	79	5.8



Ball valve type 542 PP-H With fusion socket (metric)

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)
16	10	¾	10	71	167 541 001	0.115
20	15	½	10	185	167 541 002	0.114
25	20	¾	10	350	167 541 003	0.177
32	25	1	10	700	167 541 004	0.244
40	32	1 ¼	10	1000	167 541 005	0.435
50	40	1 ½	10	1600	167 541 006	0.597
63	50	2	10	3100	167 541 007	1.104

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	93	72	56	26	46	67
20	50	54	95	72	56	26	46	67
25	58	66	109	93	65	34	59	77
32	68	71	119	93	71	34	59	83
40	84	85	137	110	85	41	69	97
50	97	92	147	110	89	41	69	101
63	124	108	169	128	101	49	79	115



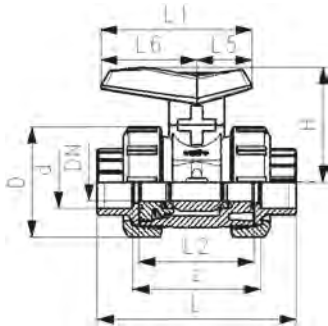
Ball valve type 542 PP-H
With threaded socket (Rp)
With PE ball seal

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
16	10	3/8	10	71	167 541 021	0.120
20	15	1/2	10	185	167 541 022	0.130
25	20	3/4	10	350	167 541 023	0.180
32	25	1	10	700	167 541 024	0.282
40	32	1 1/4	10	1000	167 541 025	0.460
50	40	1 1/2	10	1600	167 541 026	0.635
63	50	2	10	3100	167 541 027	1.190

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	96	72	56	26	46	70
20	50	54	99	72	56	26	46	66
25	58	66	111	93	65	34	59	75
32	68	71	127	93	71	34	59	85
40	84	85	147	110	85	41	69	101
50	97	92	157	110	89	41	69	111
63	124	108	184	128	101	49	79	129



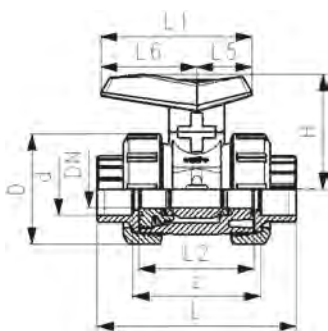
Ball valve type 542 PP-H
With threaded socket (NPT)

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

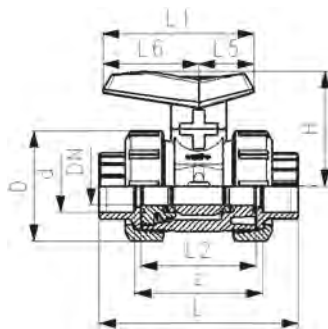
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
16	10	3/8	10	71	167 541 321	0.120
20	15	1/2	10	185	167 541 322	0.128
25	20	3/4	10	350	167 541 323	0.180
32	25	1	10	700	167 541 324	0.270
40	32	1 1/4	10	1000	167 541 325	0.460
50	40	1 1/2	10	1600	167 541 326	0.635
63	50	2	10	3100	167 541 327	1.204

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	96	72	56	26	46	70
20	50	54	99	72	56	26	46	66
25	58	66	111	93	65	34	59	78



d	D	H	L	L1	L2	L5	L6	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
32	68	71	127	93	71	34	59	86
40	84	85	147	110	85	41	69	103
50	97	92	157	110	89	41	69	113
63	124	108	184	128	101	49	79	138



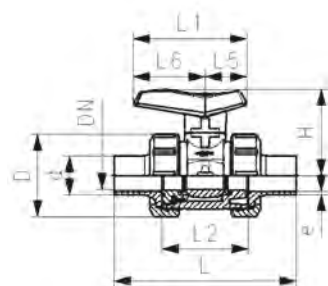
Ball valve type 542 PP-H With butt fusion spigots SDR11

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

Option:

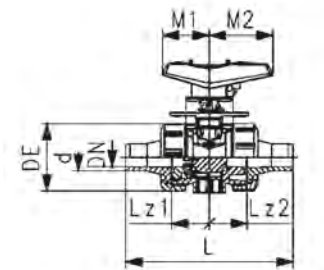
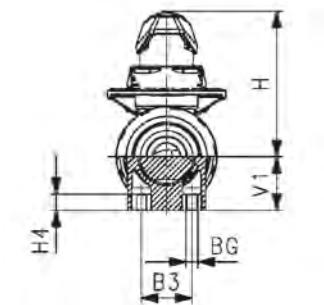
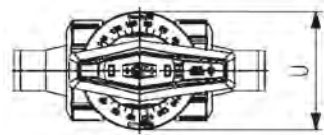
- Individual configuration of the valve possible
- Assembling of a valve tag possible



d	DN	Size	PN	kv-value	SDR	EPDM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)		Code	(kg)
				(l/min)			
20	15	½	10	185	11	167 541 442	0.121
25	20	¾	10	350	11	167 541 443	0.183
32	25	1	10	700	11	167 541 444	0.260
40	32	1 ¼	10	1000	11	167 541 445	0.454
50	40	1 ½	10	1600	11	167 541 446	0.633
63	50	2	10	3100	11	167 541 447	1.151

d	D	H	L	L1	L2	L5	L6	e
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	50	54	130	72	56	26	46	1.9
25	58	66	144	93	65	34	59	2.3
32	68	71	151	93	71	34	59	2.9
40	84	85	171	110	85	41	69	3.7
50	97	92	190	110	89	41	69	4.6
63	124	108	220	128	101	49	79	5.8

Ball valves type 523 Pro



PROGEF Standard Metering ball valve type 523 Pro With socket fusion spigots metric

Model:

- Material: PP-H
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

Option:

- Other materials on demand

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	11	167 523 441	0.130	167 523 451	0.130
20	15	10	20	167 523 442	0.130	167 523 452	0.130

d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG (mm)	B3 (mm)	H4 (mm)	U (mm)
16	35	47	28	28	110	27	72	99	50	M6	25	12	59
20	35	47	28	28	120	27	72	99	50	M6	25	12	59



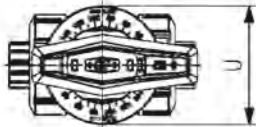
PROGEF Standard Metering ball valve type 523 Pro With fusion sockets metric

Model:

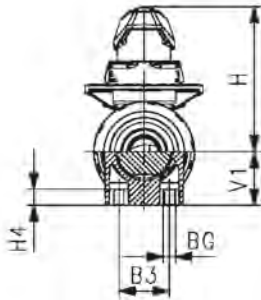
- Material: PP-H
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

Option:

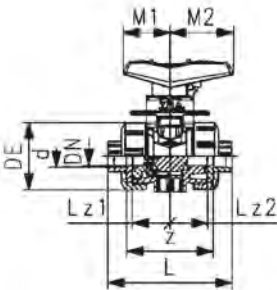
- Other materials on demand

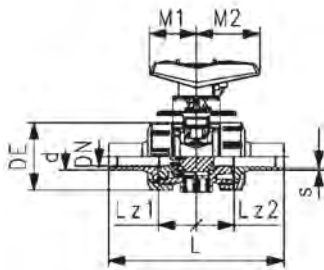
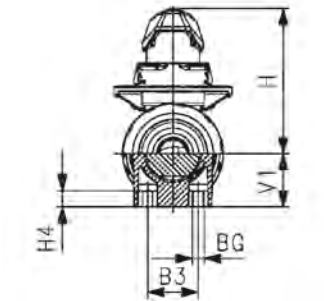
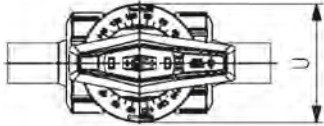


d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	11	167 523 401	0.130	167 523 411	0.130
20	15	10	20	167 523 402	0.130	167 523 412	0.130



d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG (mm)	B3 (mm)	H4 (mm)	U (mm)	z (mm)
16	35	47	28	28	92	27	72	99	50	M6	25	12	59	67
20	35	47	28	28	95	27	72	99	50	M6	25	12	59	67





PROGEF Standard Metering ball valve type 523 Pro With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

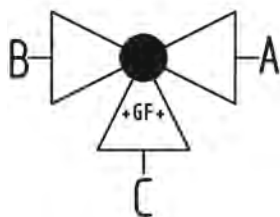
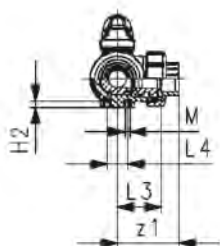
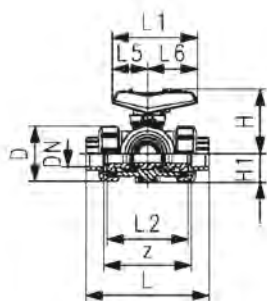
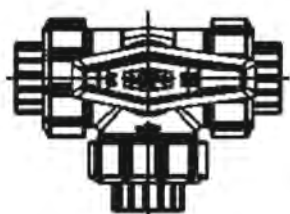
Option:

- Other materials on demand

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	20	167 523 482	0.130	167 523 492	0.130

d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG (mm)	B3 (mm)	H4 (mm)	U (mm)	s (mm)
20	35	47	28	28	130	27	72	99	50	M6	25	12	59	1.9

Ball valves type 543 Pro



PROGEF Standard 3-Way ball valve type 543 Pro Horizontal/L-port With fusion sockets metric

Model:

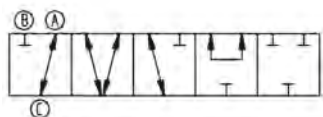
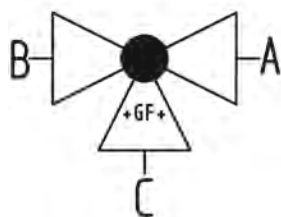
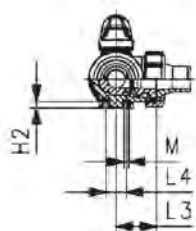
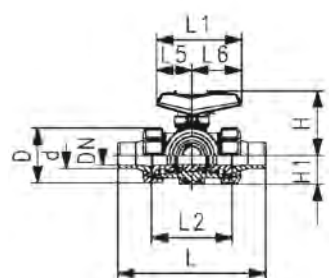
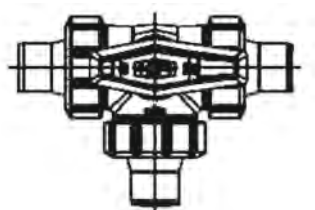
- Lockable lever as standard (DN10-DN50)
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	3/8	10	50	167 543 001	0.161	167 543 011	0.161
20	15	1/2	10	75	167 543 002	0.165	167 543 012	0.165
25	20	3/4	10	150	167 543 003	0.237	167 543 013	0.237
32	25	1	10	280	167 543 004	0.374	167 543 014	0.361
40	32	1 1/4	10	480	167 543 005	0.616	167 543 015	0.616
50	40	1 1/2	10	620	167 543 006	0.950	167 543 016	0.912
63	50	2	10	1230	167 543 007	1.843	167 543 017	1.882

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	3/8
20	50	61	27	8	112	82	72	36	25	35	47	6	82	41	1/2
25	58	74	30	8	129	106	85	43	25	44	62	6	97	49	3/4
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	44	9	170	131	118	59	45	57	74	8	132	66	1 1/4
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	1 1/2
63	124	117	64	9	244	152	176	88	45	66	86	8	188	94	2



PROGEF Standard 3-Way ball valve type 543 Pro

Horizontal/L-port

With socket fusion spigots metric

Model:

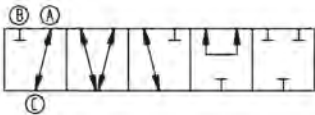
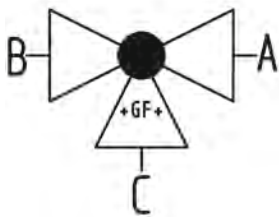
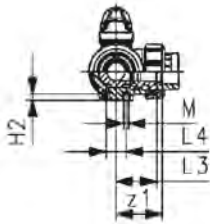
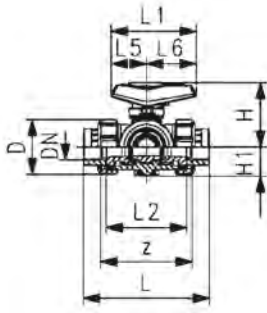
- Lockable lever as standard (DN10-DN50)
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	$\frac{3}{8}$	10	50	167 543 021	0.165	167 543 031	0.165
20	15	$\frac{1}{2}$	10	75	167 543 022	0.171	167 543 032	0.171
25	20	$\frac{3}{4}$	10	150	167 543 023	0.247	167 543 033	0.247
32	25	1	10	280	167 543 024	0.377	167 543 034	0.377
40	32	1 $\frac{1}{4}$	10	480	167 543 025	0.629	167 543 035	0.629
50	40	1 $\frac{1}{2}$	10	620	167 543 026	0.953	167 543 036	0.953
63	50	2	10	1230	167 543 027	1.855	167 543 037	1.855

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	L7	M	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
														(inch)
16	50	61	28	8	126	82	72	36	25	35	47	133	6	$\frac{3}{8}$
20	50	61	28	8	136	82	72	36	25	35	47	144	6	$\frac{1}{2}$
25	58	74	32	8	159	106	85	43	25	44	62	170	6	$\frac{3}{4}$
32	68	80	36	8	178	106	98	49	25	44	62	191	6	1
40	84	95	45	9	204	131	118	59	45	57	74	223	8	1 $\frac{1}{4}$
50	97	102	51	9	237	131	135	68	45	57	74	256	8	1 $\frac{1}{2}$
63	124	117	65	9	296	152	176	88	45	66	86	319	8	2



PROGEF Standard 3-Way ball valve type 543 Pro

Horizontal/L-port

With threaded sockets reinforced Rp

Model:

- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	Thread Type	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)		(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
					(l/min)				
16	10	Rp	$\frac{3}{8}$	10	50	167 543 081	0.161	167 543 091	0.161
20	15	Rp	$\frac{1}{2}$	10	75	167 543 082	0.165	167 543 092	0.165
25	20	Rp	$\frac{3}{4}$	10	150	167 543 083	0.237	167 543 093	0.237
32	25	Rp	1	10	280	167 543 084	0.361	167 543 094	0.361
40	32	Rp	1 $\frac{1}{4}$	10	480	167 543 085	0.616	167 543 095	0.616
50	40	Rp	1 $\frac{1}{2}$	10	620	167 543 086	0.912	167 543 096	0.912
63	50	Rp	2	10	1230	167 543 087	1.773	167 543 097	1.773

D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
50	61	28	8	112	82	72	36	25	35	47	6	86	43
50	61	28	8	114	82	72	36	25	35	47	6	84	42
58	74	32	8	131	106	85	43	25	44	62	6	99	50
68	80	36	8	154	106	98	49	25	44	62	6	112	56
84	95	45	9	180	131	118	59	45	57	74	8	132	66
97	102	51	9	203	131	135	68	45	57	74	8	153	77
124	117	65	9	258	152	176	88	45	66	86	8	196	98



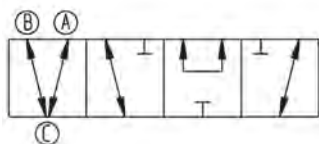
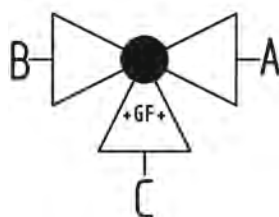
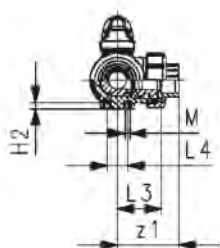
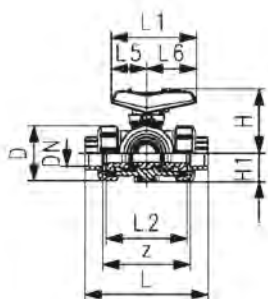
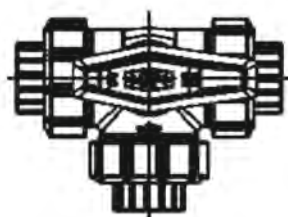
PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/T-port
With fusion sockets metric

Model:

- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

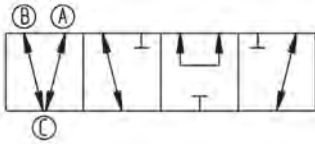
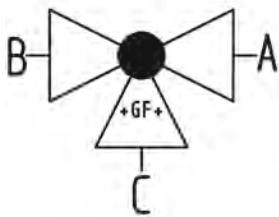
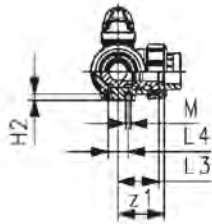
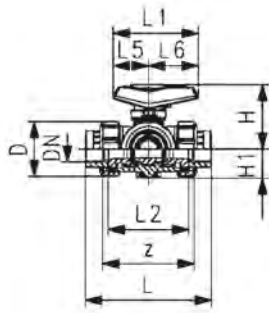
Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	$\frac{3}{8}$	10	140	167 543 201	0.160	167 543 211	0.160
20	15	$\frac{1}{2}$	10	200	167 543 202	0.164	167 543 212	0.164
25	20	$\frac{3}{4}$	10	470	167 543 203	0.236	167 543 213	0.236
32	25	1	10	793	167 543 204	0.372	167 543 214	0.357
40	32	1 $\frac{1}{4}$	10	1290	167 543 205	0.631	167 543 215	0.609
50	40	1 $\frac{1}{2}$	10	1910	167 543 206	0.936	167 543 216	0.898
63	50	2	10	3100	167 543 207	1.822	167 543 217	1.857

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	inch
															(inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	$\frac{3}{8}$
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	$\frac{1}{2}$
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	$\frac{3}{4}$
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	1 $\frac{1}{4}$
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	1 $\frac{1}{2}$
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2



PROGEF Standard 3-Way ball valve type 543 Pro

Horizontal/T-port

With threaded sockets reinforced Rp

Model:

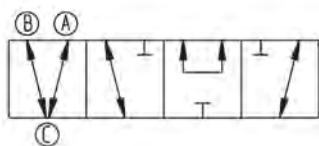
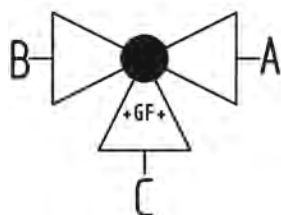
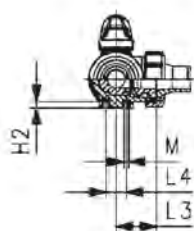
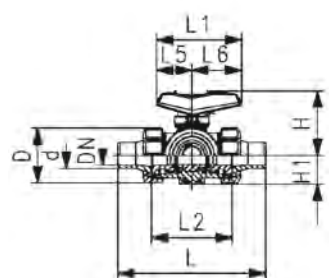
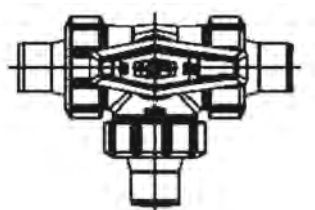
- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	Thread	Type	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)			(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
						(l/min)				
16	10	Rp		$\frac{3}{8}$	10	140	167 543 281	0.160	167 543 291	0.160
20	15	Rp		$\frac{1}{2}$	10	200	167 543 282	0.164	167 543 292	0.164
25	20	Rp		$\frac{3}{4}$	10	470	167 543 283	0.236	167 543 293	0.236
32	25	Rp		1	10	793	167 543 284	0.357	167 543 294	0.357
40	32	Rp		1 $\frac{1}{4}$	10	1290	167 543 285	0.609	167 543 295	0.609
50	40	Rp		1 $\frac{1}{2}$	10	1910	167 543 286	0.898	167 543 296	0.898
63	50	Rp		2	10	3100	167 543 287	1.744	167 543 297	1.744

D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
50	61	28	8	112	82	72	36	25	35	47	6	86	43
50	61	28	8	114	82	72	36	25	35	47	6	84	42
58	74	32	8	131	106	85	43	25	44	62	6	99	50
68	80	36	8	154	106	98	49	25	44	62	6	112	56
84	95	45	9	180	131	118	59	45	57	74	8	132	66
97	102	51	9	203	131	135	68	45	57	74	8	153	77
124	117	65	9	258	152	176	88	45	66	86	8	196	98



PROGEF Standard 3-Way ball valve type 543 Pro

Horizontal/T-port

With socket fusion spigots metric

Model:

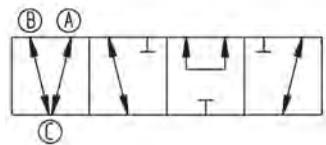
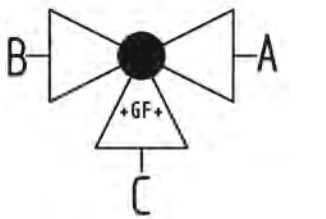
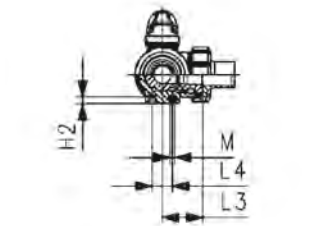
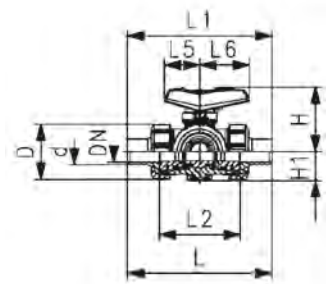
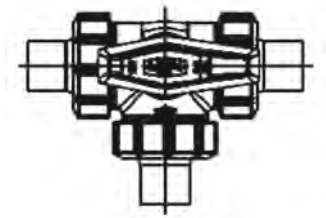
- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	$\frac{3}{8}$	10	140	167 543 221	0.164	167 543 231	0.164
20	15	$\frac{1}{2}$	10	200	167 543 222	0.170	167 543 232	0.170
25	20	$\frac{3}{4}$	10	470	167 543 223	0.245	167 543 233	0.245
32	25	1	10	793	167 543 224	0.372	167 543 234	0.372
40	32	1 $\frac{1}{4}$	10	1290	167 543 225	0.622	167 543 235	0.622
50	40	1 $\frac{1}{2}$	10	1910	167 543 226	0.939	167 543 236	0.939
63	50	2	10	3100	167 543 227	1.913	167 543 237	1.826

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	L7	M	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
														(inch)
16	50	61	28	8	126	82	72	36	25	35	47	133	6	$\frac{3}{8}$
20	50	61	28	8	136	82	72	36	25	35	47	144	6	$\frac{1}{2}$
25	58	74	32	8	159	106	85	43	25	44	62	170	6	$\frac{3}{4}$
32	68	80	36	8	178	106	98	49	25	44	62	191	6	1
40	84	95	45	9	204	131	118	59	45	57	74	223	8	1 $\frac{1}{4}$
50	97	102	51	9	237	131	135	68	45	57	74	256	8	1 $\frac{1}{2}$
63	124	117	65	9	296	152	176	88	45	66	86	319	8	2



PROGEF Standard 3-Way ball valve type 543 Pro Horizontal/T-port With butt fusion spigots IR-Plus SDR11 metric

Model:

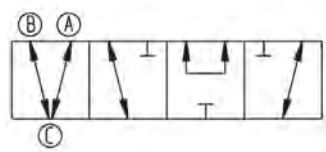
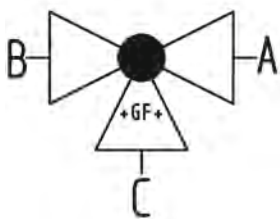
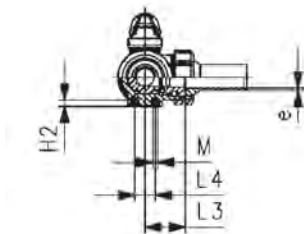
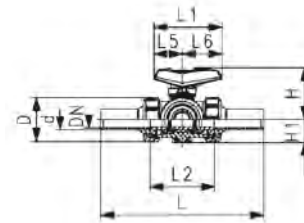
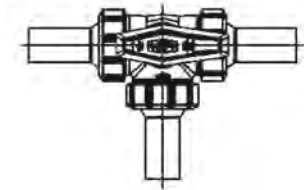
- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	200	167 543 262	0.173	167 543 272	0.170
25	20	¾	10	470	167 543 263	0.245	167 543 273	0.245
32	25	1	10	793	167 543 264	0.372	167 543 274	0.372
40	32	1 ¼	10	1290	167 543 265	0.622	167 543 275	0.622
50	40	1 ½	10	1910	167 543 266	0.939	167 543 276	0.939
63	50	2	10	3100	167 543 267	1.826	167 543 277	1.826

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	e	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
														(inch)
20	50	61	28	8	146	82	72	36	25	35	47	6	1.9	½
25	58	61	32	8	163	82	85	43	25	35	47	6	2.3	¾
32	68	74	36	8	178	106	98	49	25	44	62	6	2.9	1
40	84	80	45	9	204	106	118	59	45	44	62	8	3.7	1 ¼
50	97	95	51	9	237	131	135	68	45	57	74	8	4.6	1 ½
63	124	102	65	9	296	131	176	88	45	57	74	8	5.8	2



PROGEF Standard 3-Way ball valve type 543 Pro Horizontal/T-port With butt fusion spigots long SDR11 metric

Model:

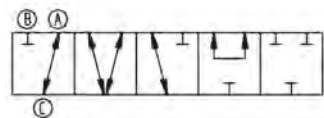
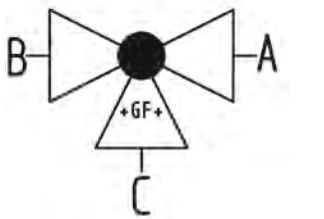
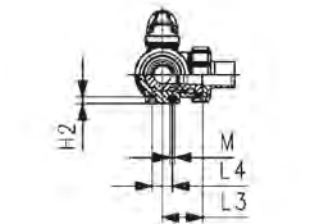
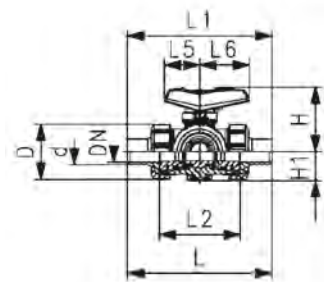
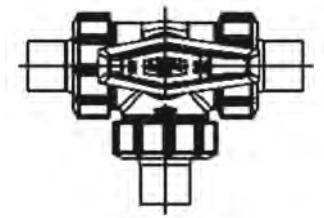
- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	200	167 543 302	0.160	167 543 312	1.744
25	20	¾	10	470	167 543 303	0.164	167 543 313	0.160
32	25	1	10	793	167 543 304	0.236	167 543 314	0.164
40	32	1 ¼	10	1290	167 543 305	0.357	167 543 315	0.236
50	40	1 ½	10	1910	167 543 306	0.609	167 543 316	0.357
63	50	2	10	3100	167 543 307	0.898	167 543 317	0.609

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)	e (mm)	closest inch (inch)
20	50	61	28	8	210	82	72	36	25	35	45	6	1.9	½
25	58	61	32	8	237	82	85	43	25	35	58	6	2.3	¾
32	68	74	36	8	250	106	98	49	25	44	58	6	2.9	1
40	84	80	45	9	282	106	118	59	45	44	74	8	3.7	1 ¼
50	97	95	51	9	317	131	135	68	45	57	74	8	4.6	1 ½
63	124	102	65	9	396	131	176	88	45	57	87	8	5.8	2



PROGEF Standard 3-Way ball valve type 543 Pro Horizontal/L-port With butt fusion spigots IR-Plus SDR11 metric

Model:

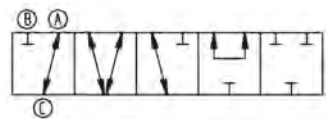
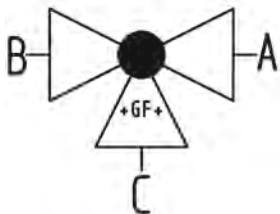
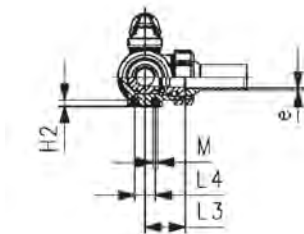
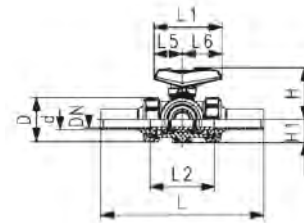
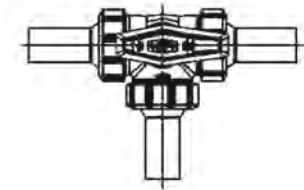
- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	75	167 543 062	0.171	167 543 072	0.171
25	20	¾	10	150	167 543 063	0.247	167 543 073	0.247
32	25	1	10	280	167 543 064	0.377	167 543 074	0.377
40	32	1 ¼	10	480	167 543 065	0.629	167 543 075	0.629
50	40	1 ½	10	620	167 543 066	0.989	167 543 076	0.953
63	50	2	10	1230	167 543 067	1.928	167 543 077	1.855

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	e	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
														(inch)
20	50	61	28	8	146	82	72	36	25	35	47	6	1.9	½
25	58	74	32	8	163	106	85	43	25	44	62	6	2.3	¾
32	68	80	36	8	178	106	98	49	25	44	62	6	2.9	1
40	84	95	45	9	204	131	118	59	45	57	74	8	3.7	1 ¼
50	97	102	51	9	237	131	135	68	45	57	74	8	4.6	1 ½
63	124	117	65	9	296	152	176	88	45	66	86	8	5.8	2



PROGEF Standard 3-Way ball valve type 543 Pro Horizontal/L-port With butt fusion spigots long SDR11 metric

Model:

- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	75	167 543 102	0.179	167 543 112	0.179
25	20	¾	10	150	167 543 103	0.262	167 543 113	0.262
32	25	1	10	280	167 543 104	0.399	167 543 114	0.399
40	32	1 ¼	10	480	167 543 105	0.675	167 543 115	0.675
50	40	1 ½	10	620	167 543 106	1.032	167 543 116	1.032
63	50	2	10	1230	167 543 107	2.221	167 543 117	2.221

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)	e (mm)	closest inch (inch)
20	50	61	28	8	210	82	72	36	25	35	47	6	1.9	½
25	58	61	32	8	237	82	85	43	25	35	47	6	2.3	¾
32	68	74	36	8	250	106	98	49	25	44	62	6	2.9	1
40	84	80	45	9	282	106	118	59	45	44	62	8	3.7	1 ¼
50	97	95	51	9	317	131	135	68	45	57	74	8	4.6	1 ½
63	124	102	65	9	396	131	176	88	45	57	74	8	5.8	2

Ball valves electric type 127



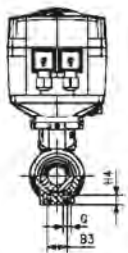
PROGEF Standard Ball valve type 127 100-230V With manual emergency override With fusion sockets PP-H ISO

Model:

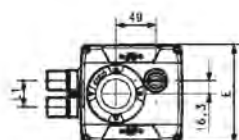
- IP68 Rating
- Factory set control range 90°<
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

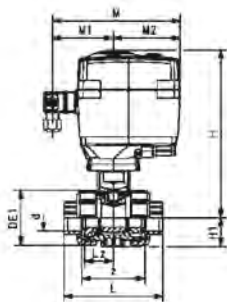
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	3/8	10	70	199 127 502	2.100	199 127 512	2.100
20	15	1/2	10	185	199 127 503	2.099	199 127 513	2.100
25	20	3/4	10	350	199 127 504	2.200	199 127 514	2.200
32	25	1	10	700	199 127 505	2.249	199 127 515	2.300
40	32	1 1/4	10	1000	199 127 506	2.433	199 127 516	2.600
50	40	1 1/2	10	1600	199 127 507	3.000	199 127 517	3.000
63	50	2	10	3100	199 127 508	3.800	199 127 518	3.800



d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA15	25	50	122	M6	197	27	12	93	33	28	161	77	83	67
20	EA15	25	50	122	M6	197	27	12	95	33	28	161	77	83	66
25	EA15	25	58	122	M6	201	30	12	109	33	33	161	77	83	77
32	EA15	25	68	122	M6	207	36	12	119	33	36	161	77	83	83
40	EA15	45	84	122	M8	213	44	15	135	33	43	161	77	83	99
50	EA15	45	97	122	M8	219	51	15	147	33	45	161	77	83	105
63	EA15	45	124	122	M8	234	64	15	168	33	51	161	77	83	117





PROGEF Standard Ball valve type 127

100-230V

With manual emergency override

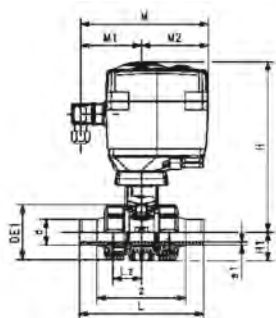
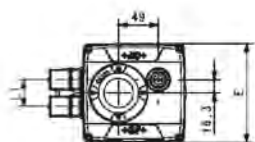
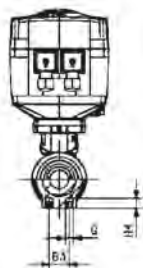
With socket fusion spigots PP-H ISO

Model:

- IP68 Rating
- Factory set control range 90°<
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	$\frac{3}{8}$	10	70	199 127 522	2.100	199 127 532	2.100
20	15	$\frac{1}{2}$	10	185	199 127 523	2.101	199 127 533	2.100
25	20	$\frac{3}{4}$	10	350	199 127 524	2.200	199 127 534	2.200
32	25	1	10	700	199 127 525	2.255	199 127 535	2.300
40	32	1 $\frac{1}{4}$	10	1000	199 127 526	2.438	199 127 536	2.600
50	40	1 $\frac{1}{2}$	10	1600	199 127 527	2.621	199 127 537	2.629
63	50	2	10	3100	199 127 528	3.800	199 127 538	3.800

d	Actuator	B3	DE1	E	G	H	H1	H4	L	L1	Lz	M	M1	M2	s1
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	EA15	25	50	122	M6	197	27	12	110	33	28	161	77	83	3.0
20	EA15	25	50	122	M6	197	27	12	120	33	28	161	77	83	3.0
25	EA15	25	58	122	M6	201	30	12	139	33	33	161	77	83	3.0
32	EA15	25	68	122	M6	207	36	12	150	33	36	161	77	83	4.0
40	EA15	45	84	122	M8	213	44	15	170	33	43	161	77	83	4.5
50	EA15	45	97	122	M8	219	51	15	190	33	45	161	77	83	5.5
63	EA15	45	124	122	M8	234	64	15	220	33	51	161	77	83	7.0

d	z
(mm)	(mm)
16	84
20	92
25	107
32	114
40	130
50	144
63	166



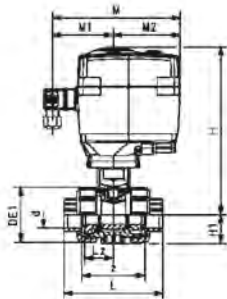
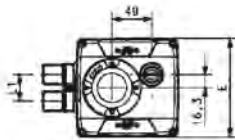
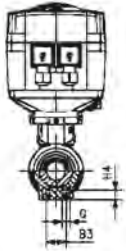
**PROGEF Standard Ball valve type 127
24V**
With manual emergency override
With fusion sockets PP-H ISO

Model:

- Factory set control range 90°<
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts
- IP68 Rating

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	3/8	10	70	199 127 542	2.100	199 127 552	2.100
20	15	1/2	10	185	199 127 543	2.100	199 127 553	2.100
25	20	3/4	10	350	199 127 544	2.167	199 127 554	2.200
32	25	1	10	700	199 127 545	2.300	199 127 555	2.241
40	32	1 1/4	10	1000	199 127 546	2.418	199 127 556	2.600
50	40	1 1/2	10	1600	199 127 547	3.000	199 127 557	3.000
63	50	2	10	3100	199 127 548	3.800	199 127 558	3.800

d	Actuator	B3	DE1	E	G	H	H1	H4	L	L1	Lz	M	M1	M2	z
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	EA15	25	50	122	M6	197	27	12	93	33	28	161	77	83	67
20	EA15	25	50	122	M6	197	27	12	95	33	28	161	77	83	66
25	EA15	25	58	122	M6	201	30	12	109	33	33	161	77	83	77
32	EA15	25	68	122	M6	207	36	12	119	33	36	161	77	83	83
40	EA15	45	84	122	M8	213	44	15	135	33	43	161	77	83	99
50	EA15	45	97	122	M8	219	51	15	147	33	45	161	77	83	105
63	EA15	45	124	122	M8	234	64	15	168	33	51	161	77	83	117



PROGEF Standard Ball valve type 127

24V

With manual emergency override

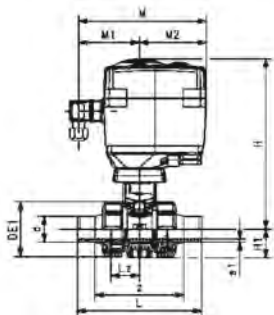
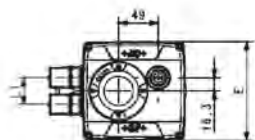
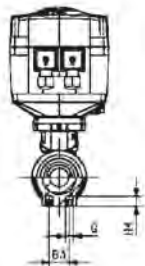
With socket fusion spigots PP-H ISO

Model:

- IP68 Rating
- Factory set control range 90°<
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	3/8	10	70	199 127 562	2.100	199 127 572	2.100
20	15	1/2	10	185	199 127 563	2.100	199 127 573	2.096
25	20	3/4	10	350	199 127 564	2.200	199 127 574	2.200
32	25	1	10	700	199 127 565	2.245	199 127 575	2.300
40	32	1 1/4	10	1000	199 127 566	2.600	199 127 576	2.600
50	40	1 1/2	10	1600	199 127 567	3.000	199 127 577	3.000
63	50	2	10	3100	199 127 568	3.800	199 127 578	3.800

d	Actuator	B3	DE1	E	G	H	H1	H4	L	L1	Lz	M	M1	M2	s1
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	EA15	25	50	122	M6	197	27	12	110	33	28	161	77	83	3.0
20	EA15	25	50	122	M6	197	27	12	120	33	28	161	77	83	3.0
25	EA15	25	58	122	M6	201	30	12	139	33	33	161	77	83	3.0
32	EA15	25	68	122	M6	207	36	12	150	33	36	161	77	83	4.0
40	EA15	45	84	122	M8	213	44	15	170	33	43	161	77	83	4.5
50	EA15	45	97	122	M8	219	51	15	190	33	45	161	77	83	5.5
63	EA15	45	124	122	M8	234	64	15	220	33	51	161	77	83	7.0

d	z
(mm)	(mm)
16	84
20	92
25	107
32	114
40	130
50	144
63	166



PROGEF Standard Ball valve type 127

100-230V

With manual emergency override

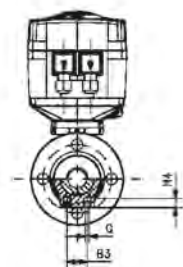
With fixed flanges PP-H ser. ISO

Model:

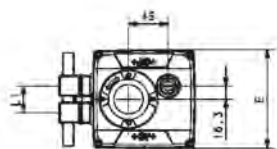
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

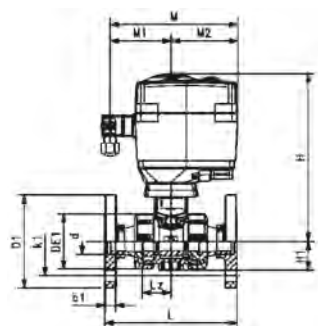
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	185	199 127 583	2.300	199 127 593	2.300
25	20	¾	10	350	199 127 584	2.500	199 127 594	2.500
32	25	1	10	700	199 127 585	2.555	199 127 595	2.700
40	32	1 ¼	10	1000	199 127 586	3.200	199 127 596	3.200
50	40	1 ½	10	1600	199 127 587	3.700	199 127 597	3.700
63	50	2	10	3100	199 127 588	4.800	199 127 598	4.800



d	Actuator	b1	B3	D1	DE1	E	G	H	H1	H4	k1	L	L1	Lz	M
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	EA15	12	25	95	50	122	M6	197	27	12	56	130	33	28	161
25	EA15	12	25	105	58	122	M6	201	30	12	75	150	33	33	161
32	EA15	14	25	115	68	122	M6	207	36	12	85	160	33	36	161
40	EA15	16	45	140	84	122	M6	213	44	15	100	180	33	43	161
50	EA15	16	45	150	97	122	M6	219	51	15	110	200	33	45	161
63	EA15	18	45	165	124	122	M6	234	64	15	125	230	33	51	161



d	M1	M2
(mm)	(mm)	(mm)
20	77	83
25	77	83
32	77	83
40	77	83
50	77	83
63	77	83



PROGEF Standard Ball valve type 127

24V

With manual emergency override

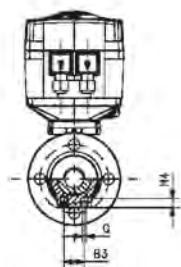
With fixed flanges PP-H ser. ISO

Model:

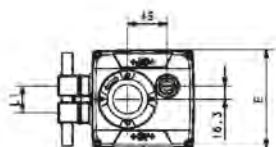
- IP68 Rating
- Factory set control range 90°<
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

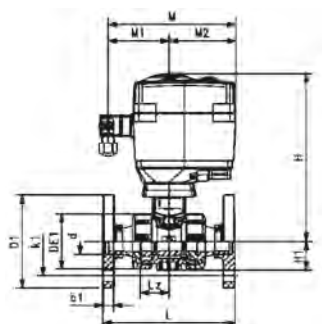
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d	DN	Size	PN	kv-value	EPDM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
20	15	½	10	185	199 127 783	2.300
25	20	¾	10	350	199 127 784	2.500
32	25	1	10	700	199 127 785	2.700
40	32	1 ¼	10	1000	199 127 786	2.496
50	40	1 ½	10	1600	199 127 787	3.700
63	50	2	10	3100	199 127 788	4.800



d	Actuator	b1	B3	D1	DE1	E	G	H	H1	H4	k1	L	L1	Lz	M
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	EA15	12	25	95	50	122	M6	197	27	12	56	120	33	28	161
25	EA15	12	25	105	58	122	M6	201	30	12	75	139	33	33	161
32	EA15	14	25	115	68	122	M8	207	36	12	85	150	33	36	161
40	EA15	16	45	140	84	122	M8	213	44	15	100	170	33	43	161
50	EA15	16	45	150	97	122	M8	219	51	15	110	189	33	45	161
63	EA15	18	45	165	124	122	M8	234	64	15	125	219	33	51	161



d	M1	M2
(mm)	(mm)	(mm)
20	77	83
25	77	83
32	77	83
40	77	83
50	77	83
63	77	83



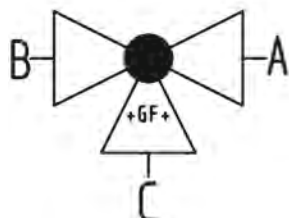
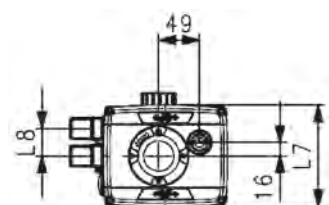
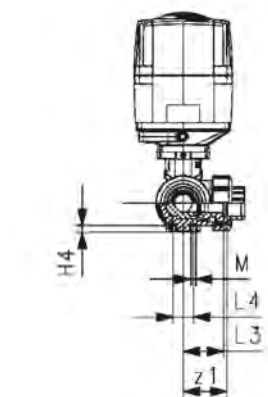
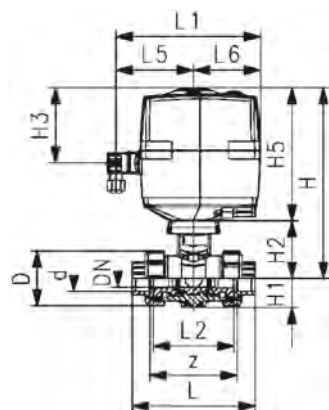
PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/L-port 100-230V
With manual emergency override
With fusion sockets metric

Model:

- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts
- Material: PP-H

Option:

- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

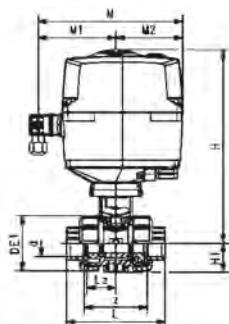
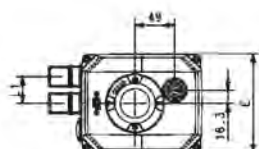
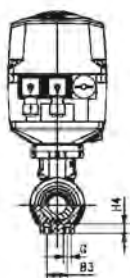


d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	3/8	10	50	EA25	199 168 022	2.038	199 168 032	2.038
20	15	1/2	10	75	EA25	199 168 023	2.042	199 168 033	2.042
25	20	3/4	10	150	EA25	199 168 024	2.132	199 168 034	2.132
32	25	1	10	280	EA25	199 168 025	2.257	199 168 035	2.257
40	32	1 1/4	10	480	EA25	199 168 026	2.548	199 168 036	2.548
50	40	1 1/2	10	620	EA25	199 168 027	2.844	199 168 037	2.844
63	50	2	10	1230	EA25	199 168 028	4.205	199 168 038	3.751

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
16	50	231	28	64	94	167	8	110	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	129	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	146	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	170	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	193	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	244	180	176	88	45	97	83	122

d (mm)	L8 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	33	6	82	41	3/8
20	33	6	82	41	1/2
25	33	6	97	49	3/4
32	33	6	110	55	1
40	33	8	132	66	1 1/4
50	33	8	151	76	1 1/2
63	33	8	188	94	2

Ball valves electric type 180



PROGEF Standard Ball valve type 180 100-230V With manual emergency override With fusion sockets PP-H ISO

Model:

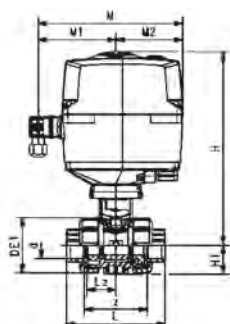
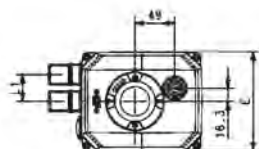
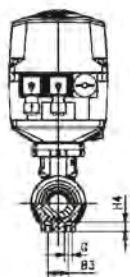
- IP68 Rating
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	3/8	10	70	199 180 002	2.100	199 180 012	2.100
20	15	1/2	10	185	199 180 003	2.439	199 180 013	2.100
25	20	3/4	10	350	199 180 004	2.200	199 180 014	2.200
32	25	1	10	700	199 180 005	2.577	199 180 015	2.589
40	32	1 1/4	10	1000	199 180 006	2.763	199 180 016	2.600
50	40	1 1/2	10	1600	199 180 007	3.000	199 180 017	3.000
63	50	2	10	3100	199 180 008	3.800	199 180 018	3.482
75	65	2 1/2	10	5000	199 180 009	6.200	199 180 019	6.200
90	80	3	10	7000	199 180 010	8.000	199 180 020	8.000
110	100	4	10	11000	199 180 011	11.200	199 180 021	11.200

d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA25	25	50	122	M6	227	27	12	93	33	28	180	97	83	67
20	EA25	25	50	122	M6	227	27	12	95	33	28	180	97	83	66
25	EA25	25	58	122	M6	231	30	12	109	33	33	180	97	83	77
32	EA25	25	68	122	M8	237	36	12	119	33	36	180	97	83	83
40	EA25	45	84	122	M8	243	44	15	135	33	43	180	97	83	99
50	EA25	45	97	122	M8	249	51	15	147	33	45	180	97	83	105
63	EA25	45	124	122	M8	264	64	15	168	33	51	180	97	83	117
75	EA45	70	166	122	M8	313	85	15	233	33	68	180	98	82	167
90	EA45	70	200	122	M8	325	105	15	254	33	71	180	98	82	180
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	215



PROGEF Standard Ball valve type 180

24V

With manual emergency override

With fusion sockets PP-H ISO

Model:

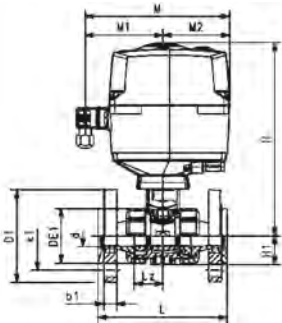
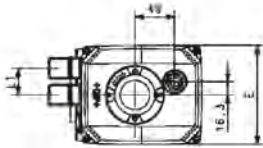
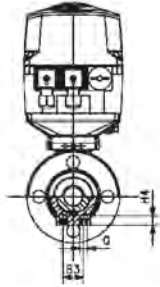
- IP68 Rating
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	3/8	10	70	199 180 042	2.100	199 180 052	2.100
20	15	1/2	10	185	199 180 043	2.413	199 180 053	2.100
25	20	3/4	10	350	199 180 044	2.483	199 180 054	2.200
32	25	1	10	700	199 180 045	2.300	199 180 055	2.300
40	32	1 1/4	10	1000	199 180 046	2.746	199 180 056	2.600
50	40	1 1/2	10	1600	199 180 047	3.555	199 180 057	3.000
63	50	2	10	3100	199 180 048	3.447	199 180 058	3.460
75	65	2 1/2	10	5000	199 180 049	6.200	199 180 059	6.200
90	80	3	10	7000	199 180 050	8.000	199 180 060	8.000
110	100	4	10	11000	199 180 051	11.200	199 180 061	11.200

d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA25	25	50	122	M6	227	27	12	93	33	28	180	97	83	67
20	EA25	25	50	122	M6	227	27	12	95	33	28	180	97	83	68
25	EA25	25	58	122	M6	231	30	12	109	33	33	180	97	83	77
32	EA25	25	68	122	M8	237	36	12	119	33	36	180	97	83	83
40	EA25	45	84	122	M8	243	44	15	135	33	43	180	97	83	99
50	EA25	45	97	122	M8	249	51	15	147	33	45	180	97	83	105
63	EA25	45	124	122	M8	264	64	15	168	33	51	180	97	83	117
75	EA45	70	166	122	M8	313	85	15	233	33	68	180	98	82	167
90	EA45	70	200	122	M8	325	105	15	254	33	71	180	98	82	180
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	215



PROGEF Standard Ball valve type 180
100-230V
With manual emergency override
With backing flanges PP-St ISO with PP-H

Model:

- IP68 Rating
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

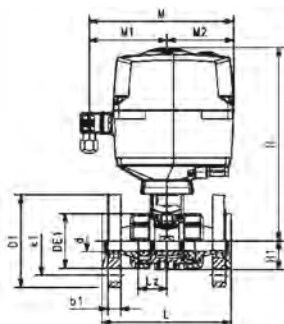
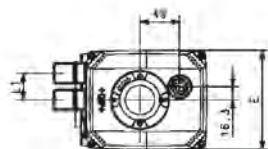
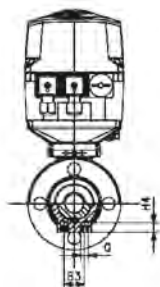
Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 1/2	10	5000	199 180 129	10.500	199 180 139	10.500
90	80	3	10	7000	199 180 130	12.800	199 180 140	13.200
110	100	4	10	11000	199 180 131	18.400	199 180 141	18.400

d (mm)	Actuator	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)
75	EA45	18	70	166	166	122	M8	313	85	15	145	290	33	68	180
90	EA45	20	70	200	200	122	M8	325	105	15	160	310	33	71	180
110	EA120	20	120	238	238	122	M12	363	123	22	180	350	33	82	180

d (mm)	M1 (mm)	M2 (mm)
75	98	82
90	98	82
110	98	82



PROGEF Standard Ball valve type 180
24V
With manual emergency override
With backing flanges PP-St ISO with PP-H

Model:

- IP68 Rating
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

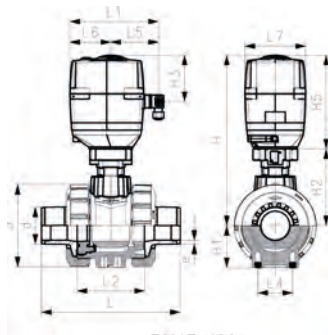
Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
75	65	2 1/2	10	5000	199 180 149	10.500	199 180 159	10.500
90	80	3	10	7000	199 180 150	13.200	199 180 160	13.200
110	100	4	10	11000	199 180 151	18.400	199 180 161	18.400

d	Actuator	b1	B3	D1	DE1	E	G	H	H1	H4	k1	L	L1	Lz	M
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
75	EA45	18	70	166	166	122	M8	313	85	15	145	290	33	68	180
90	EA45	20	70	200	200	122	M8	325	105	15	160	310	33	71	180
110	EA120	20	120	238	238	122	M12	363	123	22	180	350	33	82	180

d	M1	M2
(mm)	(mm)	(mm)
75	98	82
90	98	82
110	98	82



DN65-100

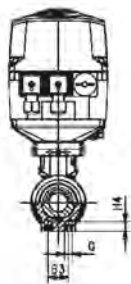
PROGEF Standard Ball valve type 180
100-230V
With manual emergency override
With butt fusion spigots PP-H SDR11 ISO

Model:

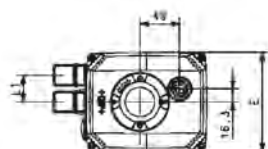
- IP68 Rating
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

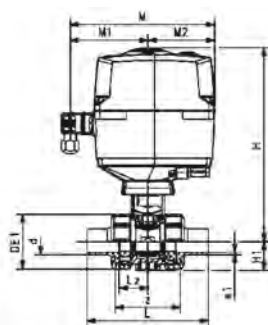
- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

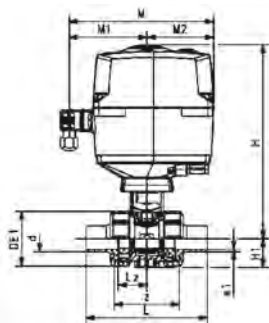
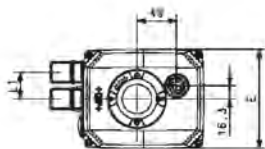
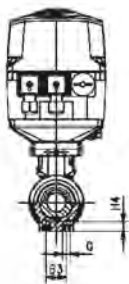


d	DN	PN	kv-value	SDR	EPDM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)
			(l/min)			
20	15	10	185	11	199 180 323	2.100
25	20	10	350	11	199 180 324	2.200
32	25	10	700	11	199 180 325	2.300
40	32	10	1000	11	199 180 326	2.600
50	40	10	1600	11	199 180 327	2.952
63	50	10	3100	11	199 180 328	3.800
75	65	10	5000	11	199 180 329	6.200
90	80	10	7000	11	199 180 330	8.000
110	100	10	11000	11	199 180 331	11.200



d	Actuator	B3	DE1	E	G	H	H1	H4	L	L1	Lz	M	M1	M2	s1
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	EA25	25	50	122	M6	227	27	12	130	33	28	180	97	83	1.9
25	EA25	25	58	122	M6	231	30	12	143	33	33	180	97	83	2.3
32	EA25	25	68	122	M8	237	36	12	150	33	36	180	97	83	3.0
40	EA25	45	84	122	M8	243	44	15	171	33	43	180	97	83	3.7
50	EA25	45	97	122	M8	249	51	15	191	33	45	180	97	83	4.6
63	EA25	45	124	122	M8	264	64	15	220	33	51	180	97	83	5.8
75	EA45	70	166	122	M8	313	85	15	266	33	68	180	98	82	8.2
90	EA45	70	200	122	M8	325	105	15	264	33	71	180	98	82	10.0
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	12.0





PROGEF Standard Ball valve type 180
24V
With manual emergency override
With butt fusion spigots PP-H SDR11 ISO

Model:

- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	FKM Code	Weight (kg)
20	15	½	10	185	11	199 180 363	199 180 373	2.100
25	20	¾	10	350	11	199 180 364	199 180 374	2.200
32	25	1	10	700	11	199 180 365	199 180 375	2.300
40	32	1 ¼	10	1000	11	199 180 366	199 180 376	2.600
50	40	1 ½	10	1600	11	199 180 367	199 180 377	3.000
63	50	2	10	3100	11	199 180 368	199 180 378	3.800
75	65	2 ½	10	5000	11	199 180 369	199 180 379	6.200
90	80	3	10	7000	11	199 180 370	199 180 380	8.000
110	100	4	10	11000	11	199 180 371	199 180 381	11.200

d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)
20	EA25	25	50	122	M6	227	27	12	130	33	28	180	97	83	1.9
25	EA25	25	58	122	M6	231	30	12	143	33	33	180	97	83	2.3
32	EA25	25	68	122	M8	237	36	12	150	33	36	180	97	83	3.0
40	EA25	45	84	122	M8	243	44	15	171	33	43	180	97	83	3.7
50	EA25	45	97	122	M8	249	51	15	191	33	45	180	97	83	4.6
63	EA25	45	124	122	M8	264	64	15	220	33	51	180	97	83	5.8
75	EA45	70	166	122	M8	313	85	15	266	33	68	180	98	82	8.2
90	EA45	70	200	122	M8	325	105	15	264	33	71	180	98	82	10.0
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	12.0



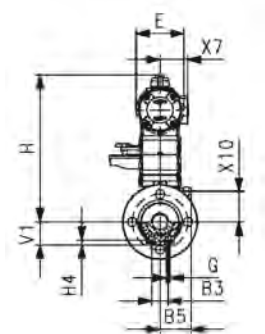
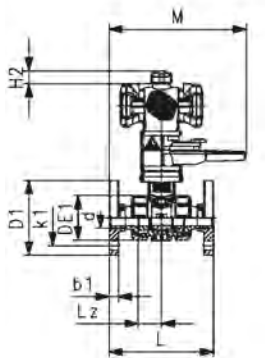
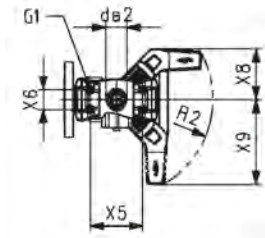
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)
With fixed flanges PP-H ser. ISO
With manual override

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

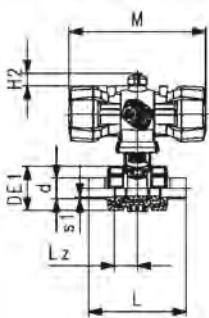
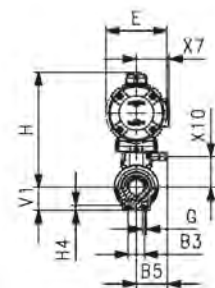
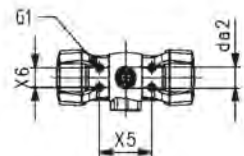
- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	199 251 283	1.700	199 251 293	1.700
25	20	¾	10	350	199 251 284	1.900	199 251 294	1.900
32	25	1	10	700	199 251 285	2.100	199 251 295	2.100
40	32	1 ¼	10	1000	199 251 286	3.400	199 251 296	3.400
50	40	1 ½	10	1600	199 251 287	3.900	199 251 297	3.900
63	50	2	10	3100	199 251 288	4.900	199 251 298	4.900

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	da2 (mm)	D1 (mm)	E (mm)	G (inch)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)
20	PPA08	12	25	16.2	33	95	74	M6	M5	215	20	12	56	130	28
25	PPA08	12	25	17.5	33	105	74	M6	M5	219	20	12	75	150	33
32	PPA08	14	25	17.5	33	115	74	M6	M5	238	20	12	85	160	36
40	PPA15	16	45	23.3	33	140	94	M8	M5	244	20	15	100	180	43
50	PPA15	16	45	23.3	33	150	94	M8	M5	273	20	15	110	200	45
63	PPA40	18	45	24.3	33	165	120	M8	M5	288	20	15	125	230	51

d (mm)	M (mm)	R2 (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)
20	128	R150	27	80	30	43	78	132	38.00
25	128	R150	30	80	30	43	78	132	41.90
32	128	R150	36	80	30	43	78	132	47.00
40	159	R150	44	80	30	51	78	132	53.50
50	159	R150	51	80	30	51	78	132	62.75
63	184	R150	64	80	30	62	78	132	77.00



PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail safe to open)
With butt fusion spigots PP-H ISO IR-PLUS
Without manual override
4.2 bar control pressure

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

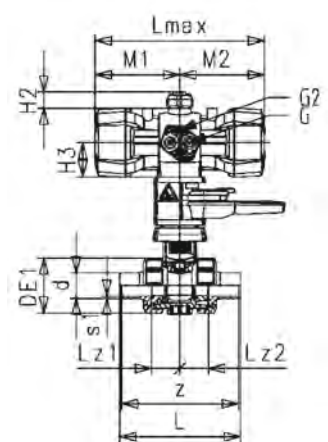
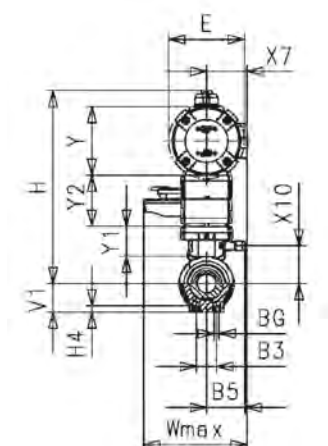
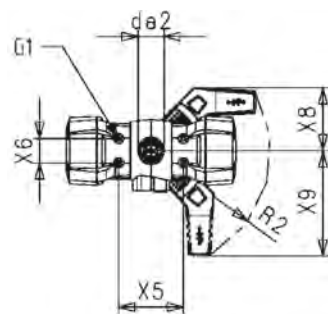
Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	185	199 251 972	1.030	199 251 982	1.330
25	20	¾	10	350	199 251 973	1.110	199 251 983	1.120
32	25	1	10	700	199 251 974	1.190	199 251 984	1.180
40	32	1 ¼	10	1000	199 251 975	2.100	199 251 985	2.100
50	40	1 ½	10	1600	199 251 976	2.250	199 251 986	2.250
63	50	2	10	3100	199 251 977	2.860	199 251 987	2.860

d	Actuator	B3	B5	da2	DE1	E	G	G1	H	H2	H4	L	Lz	M	s1
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	PPA15	25	16.2	33	50	94	M6	M5	168	20	12	130	28	211	1.9
25	PPA15	25	17.5	33	58	94	M6	M5	172	20	12	143	33	211	2.3
32	PPA15	25	17.5	33	68	94	M8	M5	178	20	12	150	36	211	3.0
40	PPA40	45	23.3	33	84	120	M8	M5	228	20	15	171	43	246	3.7
50	PPA40	45	23.3	33	97	120	M8	M5	207	20	15	191	45	246	4.6
63	PPA40	45	24.3	33	124	120	M8	M5	213	20	15	220	51	246	5.8

d	V1	X5	X6	X7	X10
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	27	80	30	51	38.0
25	30	80	30	51	41.9
32	36	80	30	51	47.0
40	44	80	30	62	53.5
50	51	80	30	62	62.8
63	64	80	30	62	77.0



PROGEF Standard PP-H Ball valve type 546 Pro with PPA

FO (Fail safe to open)

With manual override

With butt fusion spigots IR-Plus SDR11 metric

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
20	15	10	185	199 251 643	1.500	199 251 653	1.500
25	20	10	350	199 251 644	1.600	199 251 654	1.600
32	25	10	700	199 251 645	1.700	199 251 655	1.700
40	32	10	1000	199 251 646	2.800	199 251 656	2.800
50	40	10	1600	199 251 647	3.100	199 251 657	3.100
63	50	10	3100	199 251 648	4.000	199 251 658	4.000

d	Actuator	DE1	s1	M1	M2	Lmax	H2	G2	G	H3	Lz1	Lz2	Q1	Q2
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	PPA08	50	2.3	80	80	159	20	M5	G 1/4	41	28	28	17	17
25	PPA08	58	2.9	80	80	159	20	M5	G 1/4	41	33	33	16	16
32	PPA15	68	3.7	106	106	211	20	M5	G 1/4	45	36	36	16	16
40	PPA15	84	4.6	106	106	211	20	M5	G 1/4	45	43	43	19	19
50	PPA40	97	5.8	123	123	246	20	M5	G 1/4	56	45	45	22	22
63	PPA40	124	6.8	123	123	246	20	M5	G 1/4	56	51	51	26	26

d	z	E	X7	Y1	Y2	Y	H	X10	B3	BG	Wmax	V1	H4	G1	da2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	96	74	43	35	60	75	215	35	25	M6	210	27	12	M5	33
25	11	74	43	35	60	75	219	35	25	M6	210	27	12	M5	33
32	118	94	51	35	60	88	238	35	25	M6	210	30	12	M5	33
40	133	9	51	33	60	88	244	33	45	M8	210	36	15	M5	33
50	147	120	62	33	60	111	273	33	45	M8	210	44	15	M5	33
63	169	120	62	36	60	111	288	36	45	M8	210	51	15	M5	33

d	X6	X5	X8	X9	R2
(mm)	(mm)	(mm)	(mm)	(mm)	
20	30	80	78	132	R150
25	30	80	78	132	R150
32	30	80	78	132	R150
40	30	80	78	132	R150
50	30	80	78	132	R150
63	30	80	78	132	R150



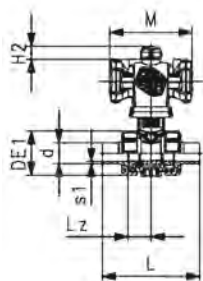
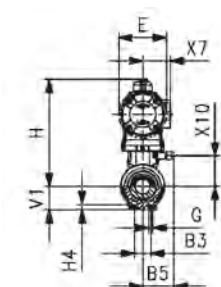
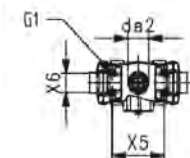
**PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)**
With butt fusion spigots PP-H SDR11 ISO
Without manual override
5.6 bar control pressure

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	199 251 873	1.200	199 251 883	1.200
25	20	¾	10	350	199 251 874	1.300	199 251 884	1.300
32	25	1	10	700	199 251 875	1.400	199 251 885	1.400
40	32	1 ¼	10	1000	199 251 876	2.500	199 251 886	2.500
50	40	1 ½	10	1600	199 251 877	2.800	199 251 887	2.800
63	50	2	10	3100	199 251 878	3.700	199 251 888	3.700
75	65	2 ½	10	5000	199 251 879	5.500	199 251 889	5.500
90	80	3	10	7000	199 251 880	7.800	199 251 890	7.800
110	100	4	10	11000	199 251 881	10.900	199 251 891	10.900

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	s1 (mm)
20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	130	28	128	1.9
25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	143	33	128	2.3
32	PPA08	25	17.5	33	68	94	M8	M5	178	20	12	150	36	128	3.0
40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	171	43	159	3.7
50	PPA15	45	23.3	33	97	120	M8	M5	213	20	15	191	45	159	4.6
63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	220	51	184	5.8
75	PPA40	70	28.5	33	166	142	M8	M5	277	20	15	266	68	184	8.2
90	PPA40	70	28.5	33	200	142	M8	M5	289	20	15	264	71	184	10.0
110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	82	261	12.0

d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
20	27	80	30	43	38.0
25	30	80	30	43	41.9
32	36	80	30	51	47.0
40	44	80	30	51	53.5
50	51	80	30	62	62.8
63	64	80	30	62	77.0
75	85	80	30	74	119.0
90	105	80	30	74	131.0
110	123	80	30	74	145.0



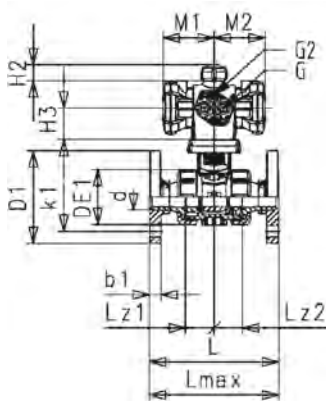
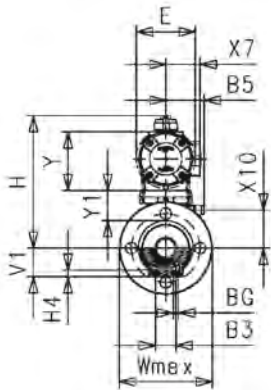
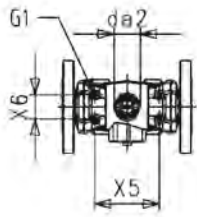
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double acting)
With fixed flanges PP-H serrated metric

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	½	15	10	185	199 251 463	1.400	199 251 473	1.400
25	¾	20	10	350	199 251 464	1.600	199 251 474	1.600
32	1	25	10	700	199 251 465	1.800	199 251 475	1.160
40	1 ¼	32	10	1000	199 251 466	3.100	199 251 476	3.100
50	1 ½	40	10	1600	199 251 467	3.600	199 251 477	3.600
63	2	50	10	3100	199 251 468	4.700	199 251 478	2.869

d	Actuator	DE1	M1	M2	Lmax	H2	G2	G	H3	Lz1	Lz2	b1	k1	D1
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	PPA08	50	64	64	128	20	M5	G 1/4	41	48	48	12	33	95
25	PPA08	58	64	64	128	20	M5	G 1/4	41	56	56	13	38	103
32	PPA08	68	64	64	128	20	M5	G 1/4	41	59	59	14	43	115
40	PPA15	84	80	80	159	20	M5	G 1/4	45	67	67	15	50	138
50	PPA15	97	80	80	159	20	M5	G 1/4	45	74	74	16	55	148
63	PPA40	124	92	92	184	20	M5	G 1/4	56	85	85	18	63	163

d	L	z	E	X7	Y1	Y	H	X10	B3	BG	Wmax	V1	H4	G1	da2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)
20	130	96	74	43	35	75	115	35	25	M6	95	27	12	M5	33
25	150	111	74	43	35	75	115	35	25	M6	103	30	12	M5	33
32	160	118	74	43	35	75	115	35	25	M6	115	36	12	M5	33
40	180	133	94	51	33	88	128	33	45	M8	138	44	15	M5	33
50	200	147	94	51	33	88	128	33	45	M8	148	51	15	M5	33
63	230	169	120	62	36	111	151	36	45	M8	163	64	15	M5	33

d	X6	X5
(mm)	(mm)	(mm)
20	30	80
25	30	80
32	30	80
40	30	80
50	30	80
63	30	80



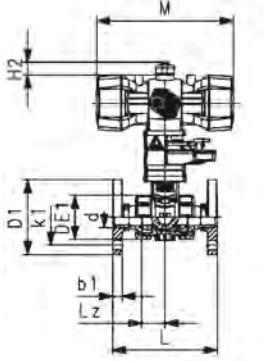
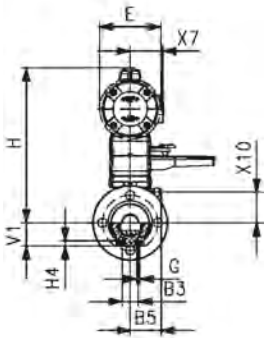
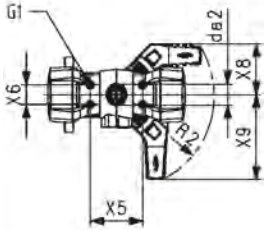
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail Safe to Open)
With fixed flanges PP-H ser. ISO
With manual override

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	185	199 251 263	1.700	199 251 273	1.700
25	20	¾	10	350	199 251 264	1.900	199 251 274	1.900
32	25	1	10	700	199 251 265	2.100	199 251 275	2.100
40	32	1 ¼	10	1000	199 251 266	3.400	199 251 276	3.400
50	40	1 ½	10	1600	199 251 267	3.900	199 251 277	3.900
63	50	2	10	3100	199 251 268	4.900	199 251 278	4.900

d	Actuator	b1	B3	B5	D1	da2	DE1	E	G	G1	H	H2	H4	k1	L
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	PPA08	12	25	16.2	95	33	50	74	M6	M5	215	20	12	56	130
25	PPA08	12	25	17.5	105	33	58	74	M6	M5	219	20	12	75	150
32	PPA15	14	25	17.5	115	33	68	94	M8	M5	238	20	12	85	160
40	PPA15	16	45	23.3	140	33	84	94	M8	M5	244	20	15	100	180
50	PPA40	16	45	23.3	150	33	97	120	M8	M5	273	20	15	110	200
63	PPA40	18	45	24.3	165	33	124	120	M8	M5	288	20	15	125	230

d	Lz	M	R2	V1	X5	X6	X7	X8	X9	X10
(mm)	(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	28	159	R150	27	80	30	43	78	132	38.00
25	33	159	R150	30	80	30	43	78	132	41.90
32	36	211	R150	36	80	30	51	78	132	47.00
40	43	211	R150	44	80	30	51	78	132	53.50
50	45	246	R150	51	80	30	62	78	132	62.75
63	51	246	R150	64	80	30	62	78	132	77.00



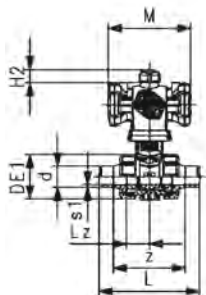
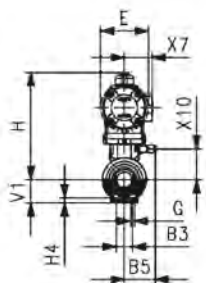
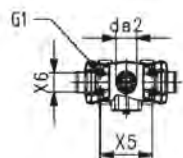
**PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)**
With socket fusion spigots PP-H ISO
Without manual override
5.6 bar control pressure

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	70	199 251 222	1.200	199 251 232	1.200
20	15	10	185	199 251 223	1.200	199 251 233	1.200
25	20	10	350	199 251 224	1.300	199 251 234	1.300
32	25	10	700	199 251 225	1.400	199 251 235	0.929
40	32	10	1000	199 251 226	2.500	199 251 236	2.500
50	40	10	1600	199 251 227	2.800	199 251 237	2.800
63	50	10	3100	199 251 228	3.700	199 251 238	3.700
75	65	10	5000	199 251 229	5.500	199 251 239	5.500
90	80	10	7000	199 251 230	7.800	199 251 240	7.800
110	100	10	11000	199 251 231	10.900	199 251 241	10.900

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	s1 (mm)
16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	110	28	128	3.0
20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	120	28	128	3.0
25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	139	33	128	3.0
32	PPA08	25	17.5	33	68	94	M8	M5	178	20	12	150	36	128	4.0
40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	170	43	159	4.5
50	PPA15	45	23.3	33	97	120	M8	M5	213	20	15	190	45	159	5.5
63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	220	51	184	7.0
75	PPA40	70	28.5	33	166	142	M8	M5	277	20	15	280	68	184	8.5
90	PPA40	70	28.5	33	200	142	M8	M5	289	20	15	196	71	184	10.0
110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	336	82	261	12.0

d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
16	27	80	30	43	38.0	84
20	27	80	30	43	38.0	92
25	30	80	30	43	41.9	107
32	36	80	30	51	47.0	114
40	44	80	30	51	53.5	130
50	51	80	30	62	62.8	144
63	64	80	30	62	77.0	166
75	85	80	30	74	119.0	190
90	105	80	30	74	131.0	92
110	123	80	30	74	145.0	208



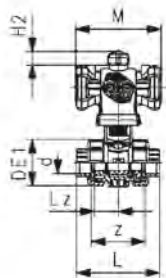
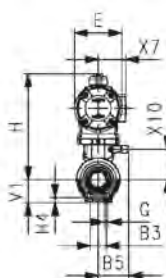
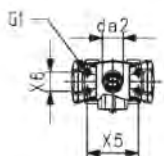
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)
With fusion sockets PP-H ISO
Without manual override
5.6 bar control pressure

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	3/8	10	70	199 251 202	1.200	199 251 212	1.200
20	15	1/2	10	185	199 251 203	0.766	199 251 213	0.774
25	20	3/4	10	350	199 251 204	0.844	199 251 214	1.300
32	25	1	10	700	199 251 205	0.920	199 251 215	0.919
40	32	1 1/4	10	1000	199 251 206	2.500	199 251 216	2.500
50	40	1 1/2	10	1600	199 251 207	1.691	199 251 217	1.701
63	50	2	10	3100	199 251 208	3.700	199 251 218	3.700
75	65	2 1/2	10	5000	199 251 209	5.400	199 251 219	5.400
90	80	3	10	7000	199 251 210	7.700	199 251 220	7.700
110	100	4	10	11000	199 251 211	10.800	199 251 221	10.800

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	V1 (mm)
16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	93	28	128	27
20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	95	28	128	27
25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	109	33	128	30
32	PPA08	25	17.5	33	68	94	M8	M5	178	20	12	119	36	128	36
40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	135	43	159	44
50	PPA15	45	23.3	33	97	120	M8	M5	213	20	15	147	45	159	51
63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	168	51	184	64
75	PPA40	70	28.5	33	166	142	M8	M5	277	20	15	233	38	184	85
90	PPA40	70	28.5	33	200	142	M8	M5	289	20	15	254	71	184	105
110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	82	261	123

d (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
16	80	30	43	38.0	67
20	80	30	43	38.0	66
25	80	30	43	41.9	77
32	80	30	51	47.0	83
40	80	30	51	53.5	99
50	80	30	62	62.8	105
63	80	30	62	77.0	117
75	80	30	74	119.0	167
90	80	30	74	131.0	180
110	80	30	74	145.0	215



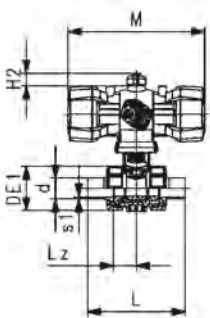
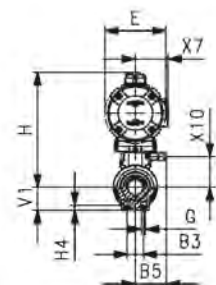
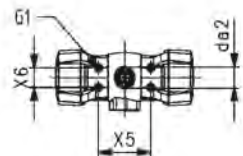
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail safe to open)
With butt fusion spigots PP-H SDR11 ISO
Without manual override
5.6 bar control pressure

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	199 251 853	1.200	199 251 863	1.200
25	20	¾	10	350	199 251 854	1.300	199 251 864	1.300
32	25	1	10	700	199 251 855	1.400	199 251 865	1.400
40	32	1 ¼	10	1000	199 251 856	2.500	199 251 866	2.032
50	40	1 ½	10	1600	199 251 857	2.800	199 251 867	2.800
63	50	2	10	3100	199 251 858	2.774	199 251 868	2.791
75	65	2 ½	10	5000	199 251 859	6.600	199 251 869	6.600
90	80	3	10	7000	199 251 860	8.400	199 251 870	8.400
110	100	4	10	11000	199 251 861	12.600	199 251 871	12.600

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	M (mm)	Lz (mm)	s1 (mm)
20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	130	159	28	1.9
25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	143	159	33	2.3
32	PPA15	25	17.5	33	68	94	M8	M5	178	20	12	150	211	36	3.0
40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	171	211	43	3.7
50	PPA40	45	23.3	33	97	120	M8	M5	213	20	15	191	246	45	4.6
63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	220	246	51	5.8
75	PPA80	70	28.5	33	166	142	M8	M5	277	20	15	266	343	68	8.2
90	PPA80	70	28.5	33	200	142	M8	M5	289	20	15	264	343	71	10.0
110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	343	82	12.0

d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
20	27	80	30	43	38.0
25	30	80	30	43	41.9
32	36	80	30	51	47.0
40	44	80	30	51	53.5
50	51	80	30	62	62.8
63	64	80	30	62	77.0
75	85	80	30	74	119.0
90	105	80	30	74	131.0
110	123	80	30	74	145.0



PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With fusion sockets PP-H ISO
Without manual override
5.6 bar control pressure

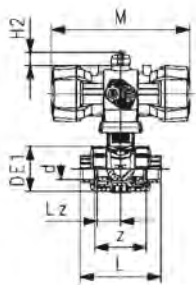
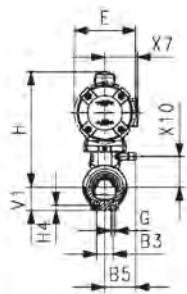
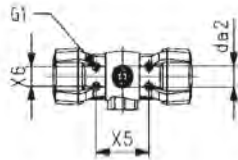
Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

* PPA04 FC/FO allows the usage of DN10/15 (1/2") ball valves with water as medium and operated in room temperature conditions (~20°C/68°F) only



	d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
*	16	10	3/8	10	70	199 255 160	1.200	199 255 170	1.200
	16	10	3/8	10	70	199 251 122	1.200	199 251 132	1.200
*	20	15	1/2	10	185	199 255 161	1.002	199 255 171	0.996
	20	15	1/2	10	185	199 251 123	1.002	199 251 133	0.996
	25	20	3/4	10	350	199 251 124	1.072	199 251 134	1.300
	32	25	1	10	700	199 251 125	1.149	199 251 135	1.129
	40	32	1 1/4	10	1000	199 251 126	2.500	199 251 136	2.500
	50	40	1 1/2	10	1600	199 251 127	2.185	199 251 137	2.800
	63	50	2	10	3100	199 251 128	2.719	199 251 138	3.700
	75	65	2 1/2	10	5000	199 251 129	6.600	199 251 139	5.142
	90	80	3	10	7000	199 251 130	8.400	199 251 140	8.057
	110	100	4	10	11000	199 251 131	12.600	199 251 141	12.600

	d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)
*	16	PPA04	25	16.2	33	50	63	M6	M5	155	20	12	93	28	115
	16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	93	28	159
*	20	PPA04	25	16.2	33	50	63	M6	M5	155	20	12	95	28	115
	20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	95	28	159
	25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	109	33	159
	32	PPA15	25	17.5	33	68	94	M8	M5	178	20	12	119	36	211
	40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	135	43	211
	50	PPA40	45	23.3	33	97	120	M8	M5	213	20	15	147	45	246
	63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	168	51	246
	75	PPA80	70	28.5	33	166	142	M8	M5	277	20	15	233	68	343
	90	PPA80	70	28.5	33	200	142	M8	M5	289	20	15	254	71	343
	110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	82	343

	d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
*	16	27	80	30	34	38.0	67
	16	27	80	30	43	38.0	67
*	20	27	80	30	34	38.0	66
	20	27	80	30	43	38.0	66
	25	30	80	30	43	41.9	77
	32	36	80	30	51	47.0	83
	40	44	80	30	51	53.5	99
	50	51	80	30	62	62.8	105
	63	64	80	30	62	77.0	117
	75	85	80	30	74	119.0	167
	90	105	80	30	74	131.0	180
	110	123	80	30	74	145.0	215



**PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double acting)
With manual override
With butt fusion spigots IR-Plus SDR11 metric**

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

DN (mm)	EPDM Code	FKM Code	Actuator	Lmax (mm)	M1 (mm)	M2 (mm)
15	199 251 663	199 251 673	PPA08	128	64	64
20	199 251 664	199 251 674	PPA08	128	64	64
25	199 251 665	199 251 675	PPA08	128	64	64
32	199 251 666	199 251 676	PPA15	165	83	83
40	199 251 667	199 251 677	PPA15	165	83	83
50	199 251 668	199 251 678	PPA40	184	91	91



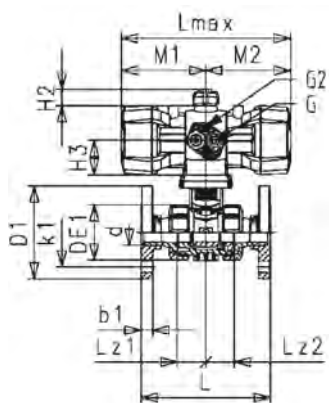
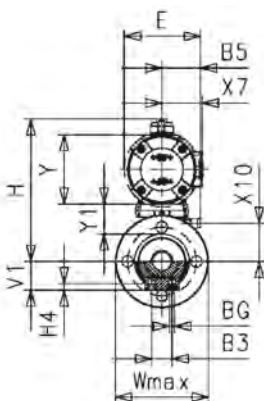
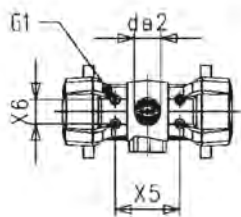
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail safe to open)
With fixed flanges PP-H serrated metric

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	½	15	10	185	199 251 443	1.400	199 251 453	1.400
25	¾	20	10	350	199 251 444	1.600	199 251 454	1.600
32	1	25	10	700	199 251 445	1.800	199 251 455	1.800
40	1 ¼	32	10	1000	199 251 446	3.100	199 251 456	3.100
50	1 ½	40	10	1600	199 251 447	3.600	199 251 457	3.600
63	2	50	10	3100	199 251 448	4.700	199 251 458	4.700

d	Actuator	DE1	M1	M2	Lmax	H2	G2	G	H3	Lz1	Lz2	b1	k1	D1
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	PPA08	50	80	80	159	20	M5	G 1/4	41	48	48	12	33	95
25	PPA08	58	80	80	159	20	M5	G 1/4	41	56	56	13	38	103
32	PPA15	68	106	106	211	20	M5	G 1/4	45	59	59	14	43	115
40	PPA15	84	106	106	211	20	M5	G 1/4	45	67	67	15	50	138
50	PPA40	97	123	123	246	20	M5	G 1/4	56	74	74	16	55	148
63	PPA40	124	123	123	246	20	M5	G 1/4	56	85	85	18	63	163

d	L	z	E	X7	Y1	Y	H	X10	B3	BG	Wmax	V1	H4	G1	da2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)
20	130	96	74	43	35	75	115	35	25	M6	95	27	12	M5	33
25	150	111	74	43	35	75	115	35	25	M6	103	30	12	M5	33
32	160	118	94	51	35	88	128	35	25	M6	115	36	12	M5	33
40	180	133	94	51	33	88	128	33	45	M8	138	44	15	M5	33
50	200	147	120	62	33	111	151	33	45	M8	148	51	15	M5	33
63	230	169	120	62	36	111	151	36	45	M8	163	64	15	M5	33

d	X6	X5
(mm)	(mm)	(mm)
20	30	80
25	30	80
32	30	80
40	30	80
50	30	80
63	30	80



**PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With socket fusion spigots PP-H ISO
Without manual override
5.6 bar control pressure**

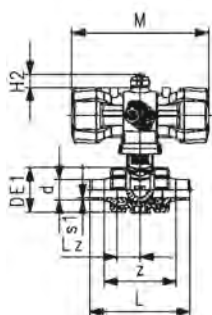
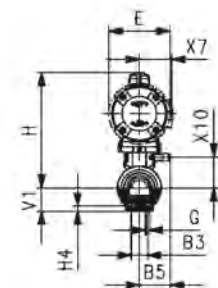
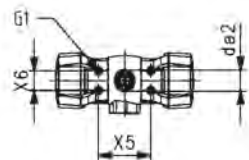
Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

* PPA04 FC/FO allows the usage of DN10/15 (1/2") ball valves with water as medium and operated in room temperature conditions (~20°C/68°F) only



	d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
*	16	10	10	70	199 255 180	1.200	199 255 190	1.200
	16	10	10	70	199 251 142	1.200	199 251 152	1.200
*	20	15	10	185	199 255 181	1.001	199 255 191	1.004
	20	15	10	185	199 251 143	1.001	199 251 153	1.004
	25	20	10	350	199 251 144	1.300	199 251 154	1.300
	32	25	10	700	199 251 145	1.156	199 251 155	1.400
	40	32	10	1000	199 251 146	2.500	199 251 156	2.035
	50	40	10	1600	199 251 147	2.800	199 251 157	2.228
	63	50	10	3100	199 251 148	2.784	199 251 158	3.700
	75	65	10	5000	199 251 149	6.600	199 251 159	6.600
	90	80	10	7000	199 251 150	8.400	199 251 160	8.400
	110	100	10	11000	199 251 151	12.600	199 251 161	12.600

	d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)
*	16	PPA04	25	16.2	33	50	74	M6	M5	155	20	12	110	28	115
	16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	110	28	159
*	20	PPA04	25	16.2	33	50	74	M6	M5	155	20	12	120	28	115
	20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	120	28	159
	25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	139	33	159
	32	PPA15	25	17.5	33	68	94	M8	M5	178	20	12	150	36	211
	40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	170	43	211
	50	PPA40	45	23.3	33	97	120	M8	M5	213	20	15	190	45	246
	63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	220	51	246
	75	PPA80	70	28.5	33	166	142	M8	M5	277	20	15	280	68	343
	90	PPA80	70	28.5	33	200	142	M8	M5	289	20	15	196	71	343
	110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	336	82	343

	d (mm)	s1 (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
*	16	3.0	27	80	30	43	38.0	84
	16	3.0	27	80	30	43	38.0	84
*	20	3.0	27	80	30	43	38.0	92
	20	3.0	27	80	30	43	38.0	92
	25	3.0	30	80	30	43	41.9	107
	32	4.0	36	80	30	51	47.0	114
	40	4.5	44	80	30	51	53.5	130
	50	5.5	51	80	30	62	62.8	144
	63	7.0	64	80	30	62	77.0	166
	75	8.5	85	80	30	74	119.0	190
	90	10.0	105	80	30	74	131.0	92
	110	12.0	123	80	30	74	145.0	208



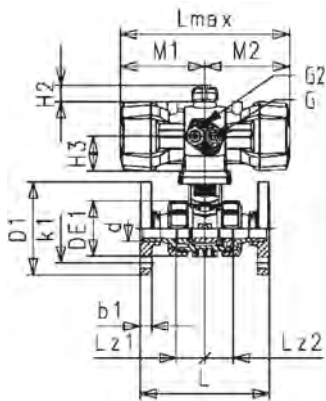
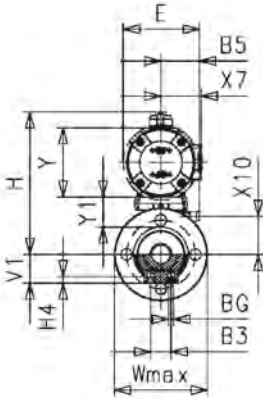
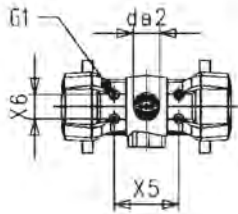
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With fixed flanges PP-H serrated metric

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	½	15	10	185	199 251 423	1.400	199 251 433	1.400
25	¾	20	10	350	199 251 424	1.600	199 251 434	1.600
32	1	25	10	700	199 251 425	1.800	199 251 435	1.377
40	1 ¼	32	10	1000	199 251 426	3.100	199 251 436	3.100
50	1 ½	40	10	1600	199 251 427	2.631	199 251 437	3.600
63	2	50	10	3100	199 251 428	3.348	199 251 438	4.700

d	Actuator	DE1	M1	M2	Lmax	H2	G2	G	H3	Lz1	Lz2	b1	k1	D1
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	PPA08	50	80	80	159	20	M5	G 1/4	41	48	48	12	33	95
25	PPA08	58	80	80	159	20	M5	G 1/4	41	56	56	13	38	103
32	PPA15	68	106	106	211	20	M5	G 1/4	45	59	59	14	43	115
40	PPA15	84	106	106	211	20	M5	G 1/4	45	67	67	15	50	138
50	PPA40	97	123	123	246	20	M5	G 1/4	56	74	74	16	55	148
63	PPA40	124	123	123	246	20	M5	G 1/4	56	85	85	18	63	163

d	L	z	E	X7	Y1	Y	H	X10	B3	BG	Wmax	V1	H4	G1	da2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)
20	130	96	74	43	35	75	115	35	25	M6	210	27	12	M5	33
25	150	111	74	43	35	75	115	35	25	M6	210	30	12	M5	33
32	160	118	94	51	35	88	128	35	25	M6	210	36	12	M5	33
40	180	133	94	51	33	88	128	33	45	M8	210	44	15	M5	33
50	200	147	120	62	33	111	151	33	45	M8	210	51	15	M5	33
63	230	169	120	62	36	111	151	36	45	M8	210	64	15	M5	33

d	X6	X5
(mm)	(mm)	(mm)
20	30	80
25	30	80
32	30	80
40	30	80
50	30	80
63	30	80



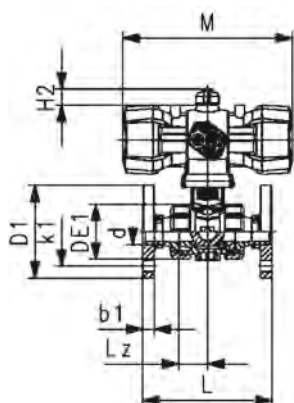
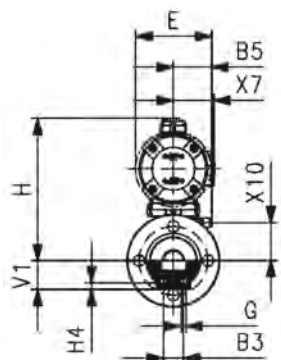
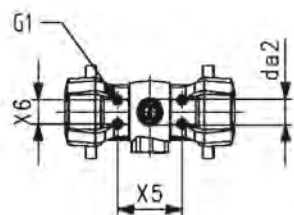
**PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With backing flanges PP-H ISO
Without manual override
5.6 bar control pressure**

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 1/2	10	5000	199 251 329	8.160	199 251 339	5.228
90	80	3	10	7000	199 251 330	13.600	199 251 340	13.600
110	100	4	10	11000	199 251 331	19.800	199 251 341	19.800

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	da2 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
75	PA80	18	70	28.5	33	166	166	142	M8	M5	277	20	15	145	290
90	PA80	20	70	28.5	33	200	200	142	M8	M5	289	20	15	160	310
110	PA80	20	120	28.5	33	238	238	142	M12	M5	324	20	22	180	350

d (mm)	Lz (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
75	68	343	85	80	30	74	119
90	71	343	105	80	30	74	131
110	82	343	123	80	30	74	145



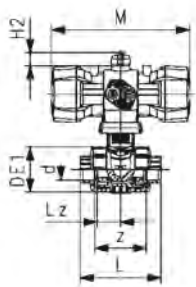
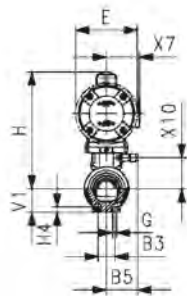
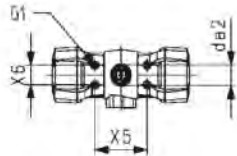
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail safe to open)
With fusion sockets PP-H ISO
Without manual override
5.6 bar control pressure

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

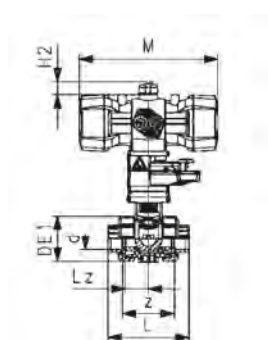
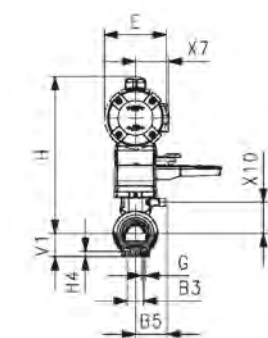
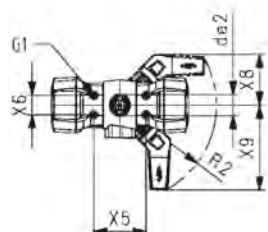
- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	3/8	10	70	199 251 162	1.200	199 251 172	1.200
20	15	1/2	10	185	199 251 163	1.200	199 251 173	1.200
25	20	3/4	10	350	199 251 164	1.300	199 251 174	1.300
32	25	1	10	700	199 251 165	1.151	199 251 175	1.400
40	32	1 1/4	10	1000	199 251 166	2.500	199 251 176	2.500
50	40	1 1/2	10	1600	199 251 167	2.800	199 251 177	2.800
63	50	2	10	3100	199 251 168	3.700	199 251 178	3.700
75	65	2 1/2	10	5000	199 251 169	6.600	199 251 179	6.600
90	80	3	10	7000	199 251 170	8.400	199 251 180	8.400
110	100	4	10	11000	199 251 171	12.600	199 251 181	12.600

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	V1 (mm)
16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	93	28	159	27
20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	95	28	159	27
25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	109	33	159	30
32	PPA15	25	17.5	33	68	94	M8	M5	178	20	12	119	36	211	36
40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	135	43	211	44
50	PPA40	45	23.3	33	97	120	M8	M5	213	20	15	147	45	246	51
63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	168	51	246	64
75	PPA80	70	28.5	33	166	142	M8	M5	277	20	15	233	68	343	85
90	PPA80	70	28.5	33	200	142	M8	M5	289	20	15	254	71	343	105
110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	82	343	123

d (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
16	80	30	43	38.0	67
20	80	30	43	38.0	66
25	80	30	43	41.9	77
32	80	30	51	47.0	83
40	80	30	51	53.5	99
50	80	30	62	62.8	105
63	80	30	62	77.0	117
75	80	30	74	119.0	167
90	80	30	74	131.0	180
110	80	30	74	145.0	215



**PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With manual override
With fusion sockets PP-H ISO**

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

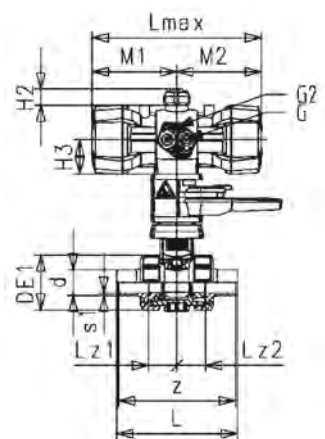
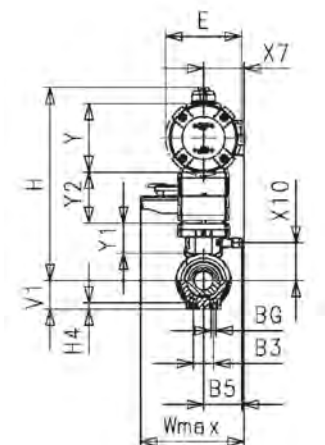
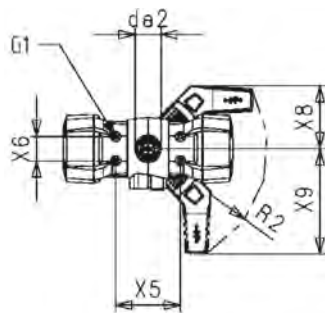
Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	3/8	10	70	199 251 002	1.500	199 251 012	1.500
20	15	1/2	10	185	199 251 003	1.500	199 251 013	1.500
25	20	3/4	10	350	199 251 004	1.307	199 251 014	1.600
32	25	1	10	700	199 251 005	1.700	199 251 015	1.700
40	32	1 1/4	10	1000	199 251 006	2.800	199 251 016	2.800
50	40	1 1/2	10	1600	199 251 007	2.440	199 251 017	3.100
63	50	2	10	3100	199 251 008	4.000	199 251 018	2.985

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	R2
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	93	28	159	R150
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	95	28	159	R150
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	109	33	159	R150
32	PPA15	25	17.5	33	68	94	M8	M5	238	20	12	119	36	211	R150
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	135	43	211	R150
50	PPA40	45	23.3	33	97	120	M8	M5	273	20	15	147	45	246	R150
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	168	51	246	R150

d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)	z (mm)
16	27	80	30	43	78	132	38.00	67
20	27	80	30	43	78	132	38.00	66
25	30	80	30	43	78	132	41.90	77
32	36	80	30	51	78	132	47.00	83
40	44	80	30	51	78	132	53.50	99
50	51	80	30	62	78	132	62.75	105
63	64	80	30	62	78	132	77.00	117



PROGEF Standard PP-H Ball valve type 546 Pro with PPA

FC (Fail safe to close)

With manual override

With butt fusion spigots IR-Plus SDR11 metric

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
20	15	10	185	199 251 623	1.500	199 251 633	1.500
25	20	10	350	199 251 624	1.600	199 251 634	1.600
32	25	10	700	199 251 625	1.700	199 251 635	1.387
40	32	10	1000	199 251 626	2.800	199 251 636	2.800
50	40	10	1600	199 251 627	3.100	199 251 637	3.100
63	50	10	3100	199 251 628	4.000	199 251 638	4.000

d	Actuator	DE1	s1	M1	M2	Lmax	H2	G2	G	H3	Lz1	Lz2	Q1	Q2
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	PPA08	50	2.3	80	80	159	20	M5	G 1/4	41	28	28	17	17
25	PPA08	58	2.9	80	80	159	20	M5	G 1/4	41	33	33	16	16
32	PPA15	68	3.7	106	106	211	20	M5	G 1/4	45	36	36	16	16
40	PPA15	84	4.6	106	106	211	20	M5	G 1/4	45	43	43	19	19
50	PPA40	97	5.8	123	123	246	20	M5	G 1/4	56	45	45	22	22
63	PPA40	124	6.8	123	123	246	20	M5	G 1/4	56	51	51	26	26

d	z	E	X7	Y1	Y2	Y	H	X10	B3	BG	Wmax	V1	H4	G1	da2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	96	74	43	35	60	75	215	35	25	M6	210	27	12	M5	33
25	11	74	43	35	60	75	219	35	25	M6	210	27	12	M5	33
32	118	94	51	35	60	88	238	35	25	M6	210	30	12	M5	33
40	133	9	51	33	60	88	244	33	45	M8	210	36	15	M5	33
50	147	120	62	33	60	111	273	33	45	M8	210	44	15	M5	33
63	169	120	62	36	60	111	288	36	45	M8	210	51	15	M5	33

d	X6	X5	X8	X9	R2
(mm)	(mm)	(mm)	(mm)	(mm)	
20	30	80	78	132	R150
25	30	80	78	132	R150
32	30	80	78	132	R150
40	30	80	78	132	R150
50	30	80	78	132	R150
63	30	80	78	132	R150



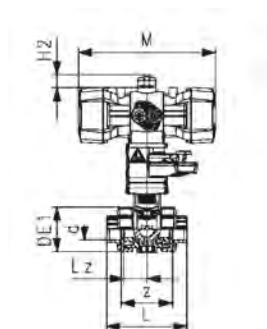
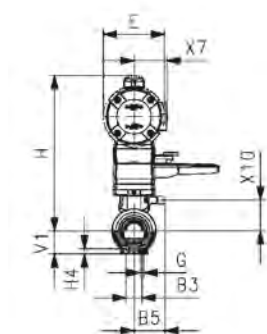
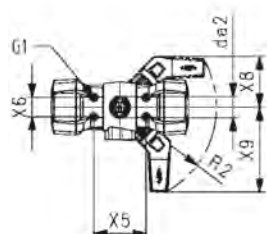
PROGEF Standard Ball valve type 546 Pro with PPA
FO (Fail Safe to Open)
With fusion sockets PP-H ISO
With manual override

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

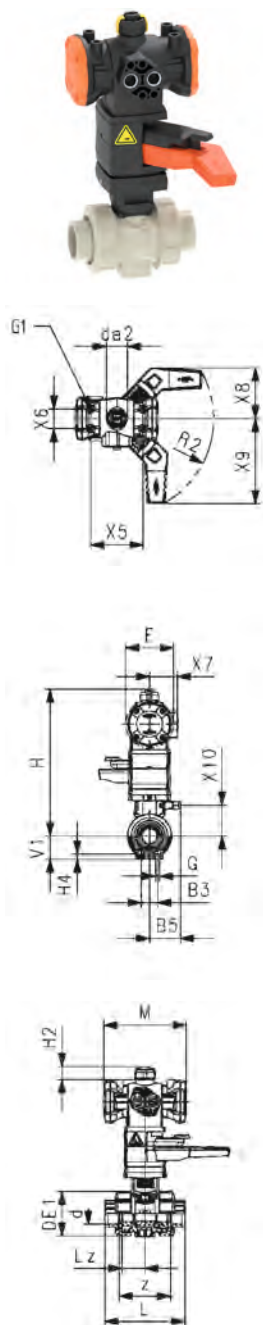
- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	$\frac{3}{8}$	10	70	199 251 042	1.500	199 251 052	1.500
20	15	$\frac{1}{2}$	10	185	199 251 043	1.500	199 251 053	1.500
25	20	$\frac{3}{4}$	10	350	199 251 044	1.308	199 251 054	1.600
32	25	1	10	700	199 251 045	1.700	199 251 055	1.700
40	32	1 $\frac{1}{4}$	10	1000	199 251 046	2.800	199 251 056	2.800
50	40	1 $\frac{1}{2}$	10	1600	199 251 047	3.100	199 251 057	3.100
63	50	2	10	3100	199 251 048	4.000	199 251 058	4.000

d	Actuator	B3	B5	da2	DE1	E	G	G1	H	H2	H4	L	Lz	M	R2
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	93	28	159	R150
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	95	28	159	R150
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	109	33	159	R150
32	PPA15	25	17.5	33	68	94	M8	M5	238	20	12	119	36	211	R150
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	135	43	211	R150
50	PPA40	45	23.3	33	97	120	M8	M5	273	20	15	147	45	246	R150
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	168	51	246	R150

d	V1	X5	X6	X7	X8	X9	X10	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	27	80	30	43	78	132	38.00	67
20	27	80	30	43	78	132	38.00	66
25	30	80	30	43	78	132	41.90	77
32	36	80	30	51	78	132	47.00	83
40	44	80	30	51	78	132	53.50	99
50	51	80	30	62	78	132	62.75	105
63	64	80	30	62	78	132	77.00	117



PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)
With fusion sockets PP-H ISO
With manual override

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	$\frac{3}{8}$	10	70	199 251 082	1.500	199 251 092	1.500
20	15	$\frac{1}{2}$	10	185	199 251 083	1.500	199 251 093	1.500
25	20	$\frac{3}{4}$	10	350	199 251 084	1.600	199 251 094	1.600
32	25	1	10	700	199 251 085	1.152	199 251 095	1.700
40	32	1 $\frac{1}{4}$	10	1000	199 251 086	2.800	199 251 096	2.800
50	40	1 $\frac{1}{2}$	10	1600	199 251 087	3.100	199 251 097	3.100
63	50	2	10	3100	199 251 088	4.000	199 251 098	4.000

d	Actuator	B3	B5	da2	DE1	E	G	G1	H	H2	H4	L	Lz	M	R2
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	93	28	128	R150
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	95	28	128	R150
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	109	33	128	R150
32	PPA08	25	17.5	33	68	74	M8	M5	238	20	12	119	36	128	R150
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	135	43	159	R150
50	PPA15	45	23.3	33	97	94	M8	M5	273	20	15	147	45	159	R150
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	168	51	184	R150

d	V1	X5	X6	X7	X8	X9	X10	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	27	80	30	43	78	132	38.00	67
20	27	80	30	43	78	132	38.00	66
25	30	80	30	43	78	132	41.90	77
32	36	80	30	51	78	132	47.00	83
40	44	80	30	51	78	132	53.50	99
50	51	80	30	62	78	132	62.75	105
63	64	80	30	62	78	132	77.00	117



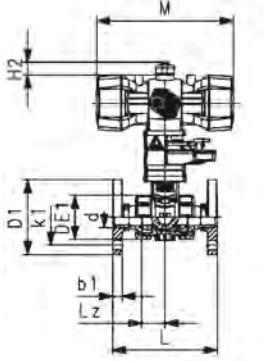
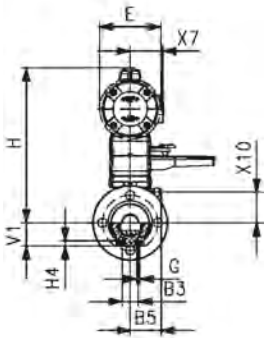
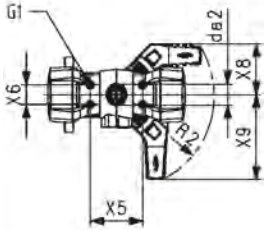
**PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail Safe to Close)
With fixed flanges PP-H ser. ISO
With manual override**

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

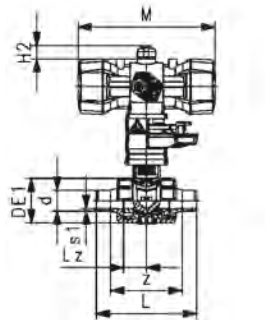
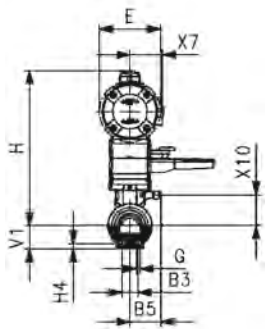
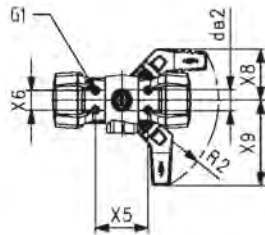
- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	199 251 243	1.700	199 251 253	1.700
25	20	¾	10	350	199 251 244	1.900	199 251 254	1.900
32	25	1	10	700	199 251 245	2.100	199 251 255	2.100
40	32	1 ¼	10	1000	199 251 246	3.400	199 251 256	3.400
50	40	1 ½	10	1600	199 251 247	2.885	199 251 257	3.900
63	50	2	10	3100	199 251 248	4.900	199 251 258	4.900

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
20	PPA08	12	25	16.2	95	33	50	74	M6	M5	215	20	12	56	130
25	PPA08	12	25	17.5	105	33	58	74	M6	M5	219	20	12	75	150
32	PPA15	14	25	17.5	115	33	68	94	M8	M5	238	20	12	85	160
40	PPA15	16	45	23.3	140	33	84	94	M8	M5	244	20	15	100	180
50	PPA40	16	45	23.3	150	33	97	120	M8	M5	273	20	15	110	200
63	PPA40	18	45	24.3	165	33	124	120	M8	M5	288	20	15	125	230

d (mm)	Lz (mm)	M (mm)	R2	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)
20	28	159	R150	27	80	30	43	78	132	38.00
25	33	159	R150	30	80	30	43	78	132	41.90
32	36	211	R150	36	80	30	51	78	132	47.00
40	43	211	R150	44	80	30	51	78	132	53.50
50	45	246	R150	51	80	30	62	78	132	62.75
63	51	246	R150	64	80	30	62	78	132	77.00



**PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With manual override
With socket fusion spigots metric**

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

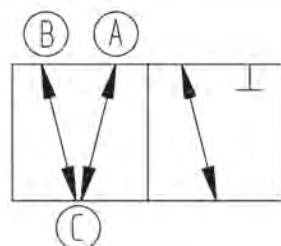
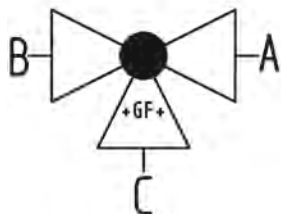
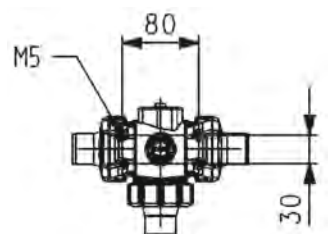
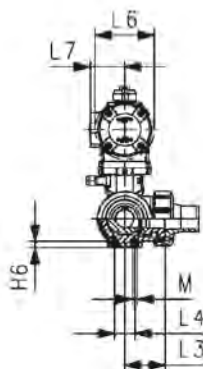
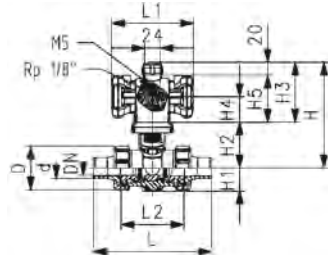
Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	3/8	10	70	199 251 022	1.500	199 251 032	1.500
20	15	1/2	10	185	199 251 023	1.500	199 251 033	1.500
25	20	3/4	10	350	199 251 024	1.600	199 251 034	1.600
32	25	1	10	700	199 251 025	1.396	199 251 035	1.700
40	32	1 1/4	10	1000	199 251 026	2.278	199 251 036	2.800
50	40	1 1/2	10	1600	199 251 027	3.100	199 251 037	3.100
63	50	2	10	3100	199 251 028	3.034	199 251 038	3.051

d	Actuator	B3	B5	da2	DE1	E	G	G1	H	H2	H4	L	M	R2	s1
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	110	159	R150	3.0
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	120	159	R150	3.0
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	139	159	R150	3.0
32	PPA15	25	17.5	33	68	94	M8	M5	238	20	12	150	211	R150	4.0
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	170	211	R150	4.5
50	PPA40	45	23.3	33	97	120	M8	M5	273	20	15	190	246	R150	5.5
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	220	246	R150	7.0

d	V1	X5	X6	X7	X8	X9	X10	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	27	80	30	43	78	132	38.00	84
20	27	80	30	43	78	132	38.00	92
25	30	80	30	43	78	132	41.90	107
32	36	80	30	51	78	132	47.00	114
40	44	80	30	51	78	132	53.50	130
50	51	80	30	62	78	132	62.75	144
63	64	80	30	62	78	132	77.00	166



PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
DA (Double acting)
Without manual override
With butt fusion spigots
IR-Plus SDR11 metric

Model:

- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

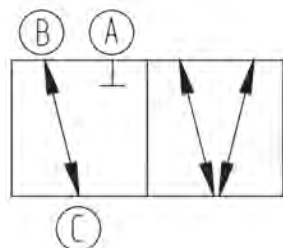
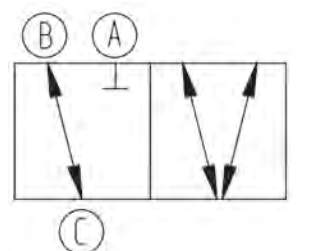
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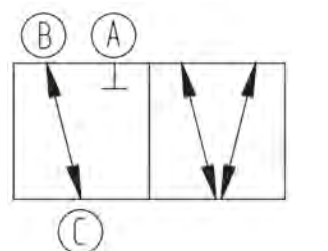
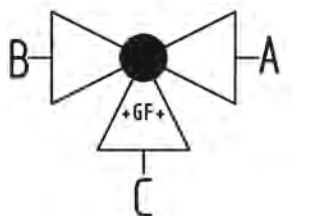
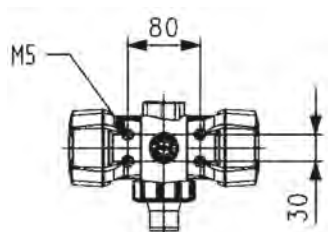
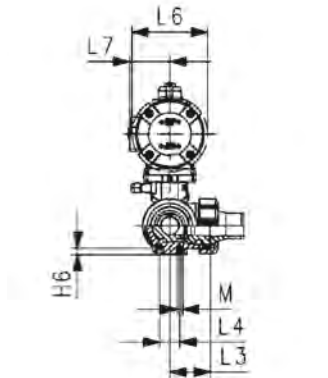
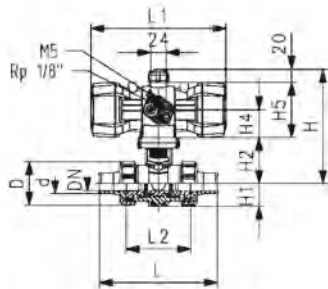
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FKM Code	Weight (kg)
20	15	½	10	200	199 296 263	199 296 273	0.850
25	20	¾	10	470	199 296 264	199 296 274	0.943
32	25	1	10	793	199 296 265	199 296 275	1.071
40	32	1 ¼	10	1290	199 296 266	199 296 276	1.800
50	40	1 ½	10	1910	199 296 267	199 296 277	2.117
63	50	2	10	3100	199 296 268	199 296 278	3.049

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
20	PPA08	50	157	28	62	95	41	75	8	146	128	72	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	163	128	85	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	178	128	98	49	25	74
40	PPA15	84	192	45	84	108	45	88	9	204	165	118	59	45	94
50	PPA15	97	192	51	84	108	45	88	9	237	165	135	68	45	94
63	PPA40	124	237	65	106	131	56	111	9	296	184	176	88	45	120

d (mm)	L7 (mm)	M (mm)	e (mm)	closest inch (inch)
20	32	6	1.9	½
25	32	6	2.3	¾
32	32	6	2.9	1
40	38	8	3.7	1 ¼
50	38	8	4.6	1 ½
63	47	8	5.8	2





PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
Without manual override
With butt fusion spigots
IR-Plus SDR11 metric

Model:

- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	200	199 296 103	1.041	199 296 113	1.041
25	20	¾	10	470	199 296 104	1.134	199 296 114	1.134
32	25	1	10	793	199 296 105	1.261	199 296 115	1.261
40	32	1 ¼	10	1290	199 296 106	2.224	199 296 116	2.224
50	40	1 ½	10	1910	199 296 107	2.541	199 296 117	2.541
63	50	2	10	3100	199 296 108	3.473	199 296 118	3.473

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
20	PPA08	50	157	28	62	95	41	75	8	146	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	163	211	85	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	178	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	204	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	237	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	296	246	176	88	45	120

d (mm)	L7 (mm)	M (mm)	closest inch (inch)
20	32	6	½
25	38	6	¾
32	38	6	1
40	47	8	1 ¼
50	47	8	1 ½
63	47	8	2



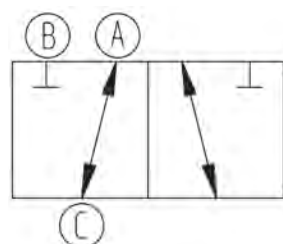
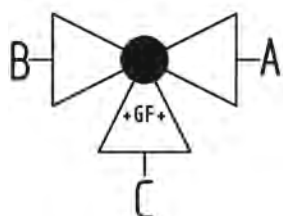
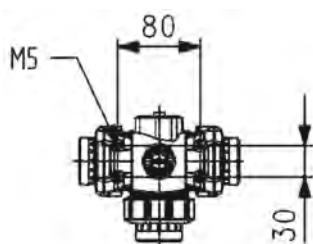
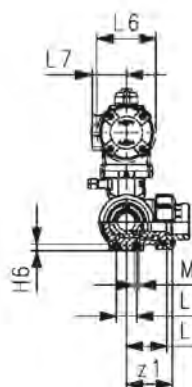
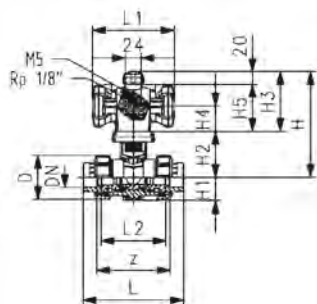
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/L-port
DA (Double acting)
Without manual override
With threaded sockets reinforced Rp

Model:

- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

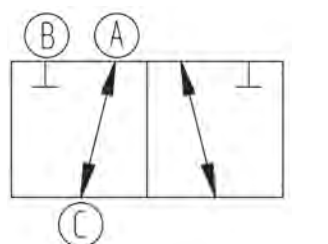
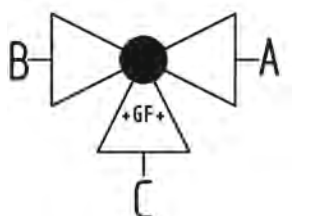
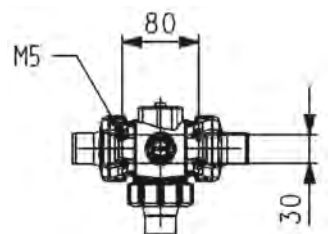
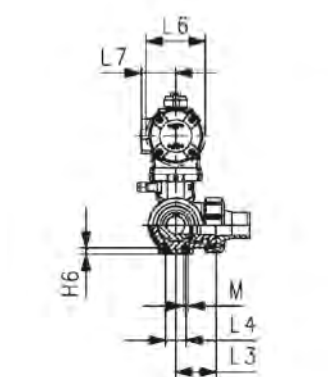
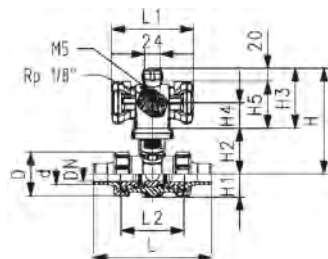
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



d (mm)	DN (mm)	Thread	Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (L/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10		Rp	¾	10	50	199 296 282	0.841	199 296 292	0.841
20	15		Rp	½	10	75	199 296 283	0.845	199 296 293	0.845
25	20		Rp	¾	10	150	199 296 284	0.935	199 296 294	0.935
32	25		Rp	1	10	280	199 296 285	1.074	199 296 295	1.060
40	32		Rp	1 ¼	10	480	199 296 286	1.793	199 296 296	1.793
50	40		Rp	1 ½	10	620	199 296 287	2.089	199 296 297	2.156
63	50		Rp	2	10	1230	199 296 288	2.996	199 296 298	2.996

Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
PPA08	50	157	28	62	95	41	75	8	112	128	72	36	25	74
PPA08	50	157	28	62	95	41	75	8	114	128	72	36	25	74
PPA08	58	166	32	71	95	41	75	8	131	128	85	43	25	74
PPA08	68	166	36	71	95	41	75	8	154	128	98	49	25	74
PPA15	84	192	45	84	108	45	88	9	180	165	118	59	45	94
PPA15	97	192	51	84	108	45	88	9	203	165	135	68	45	94
PPA40	124	237	65	106	131	56	111	9	258	184	176	88	45	120

L7 (mm)	M (mm)	z (mm)	z1 (mm)
32	6	86	43
32	6	84	42
32	6	99	50
32	6	112	56
38	8	132	66
38	8	153	77
47	8	196	98



PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/L-port
DA (Double acting)
Without manual override
With socket fusion spigots metric

Model:

- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

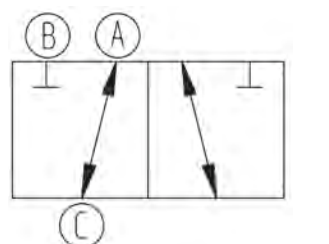
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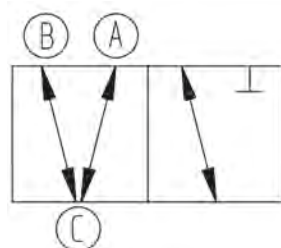
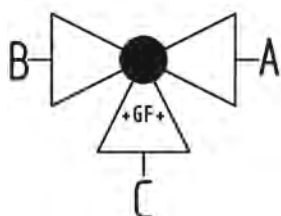
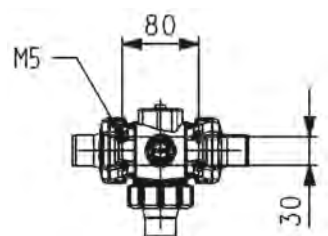
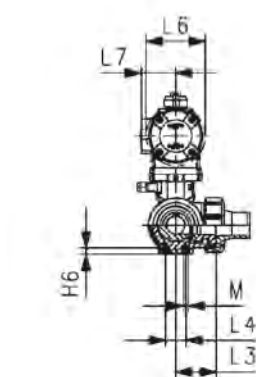
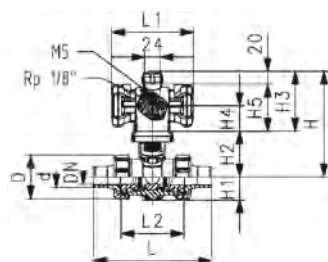
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	3/8	10	50	199 296 162	0.845	199 296 172	0.845
20	15	1/2	10	75	199 296 163	0.851	199 296 173	0.851
25	20	3/4	10	150	199 296 164	0.945	199 296 174	0.945
32	25	1	10	280	199 296 165	1.075	199 296 175	1.075
40	32	1 1/4	10	480	199 296 166	1.807	199 296 176	1.807
50	40	1 1/2	10	620	199 296 167	2.130	199 296 177	2.130
63	50	2	10	1230	199 296 168	3.078	199 296 178	3.078

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	126	128	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	136	128	72	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	159	128	85	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	178	128	98	49	25	74
40	PPA15	84	192	45	84	108	45	88	9	204	165	118	59	45	94
50	PPA15	97	192	51	84	108	45	88	9	237	165	135	68	45	94
63	PPA40	124	237	65	106	131	56	111	9	296	184	176	88	45	120

d (mm)	L7 (mm)	M (mm)	closest inch (inch)
16	32	6	3/8
20	32	6	1/2
25	32	6	3/4
32	32	6	1
40	38	8	1 1/4
50	38	8	1 1/2
63	47	8	2





PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
DA (Double acting)
Without manual override
With socket fusion spigots metric

Model:

- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	3/8	10	140	199 296 202	0.844	199 296 212	0.844
20	15	1/2	10	200	199 296 203	0.850	199 296 213	0.850
25	20	3/4	10	470	199 296 204	0.943	199 296 214	0.943
32	25	1	10	793	199 296 205	1.071	199 296 215	1.071
40	32	1 1/4	10	1290	199 296 206	1.800	199 296 216	1.800
50	40	1 1/2	10	1910	199 296 207	2.117	199 296 217	2.117
63	50	2	10	3100	199 296 208	3.049	199 296 218	3.049

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	126	128	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	136	128	72	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	159	128	85	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	178	128	98	49	25	74
40	PPA15	84	192	45	84	108	45	88	9	204	165	118	59	45	94
50	PPA15	97	192	51	84	108	45	88	9	237	165	135	68	45	94
63	PPA40	124	237	65	106	131	56	111	9	296	184	176	88	45	120

d (mm)	L7 (mm)	M (mm)	closest inch (inch)
16	32	6	3/8
20	32	6	1/2
25	32	6	3/4
32	32	6	1
40	38	8	1 1/4
50	38	8	1 1/2
63	47	8	2



PROGEF Standard 3-Way ball valve type 543 Pro P

Horizontal/L-port

Without manual override

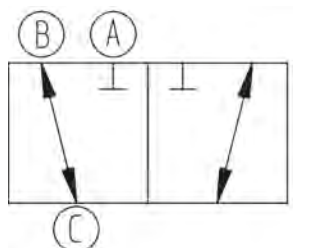
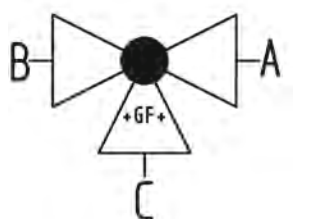
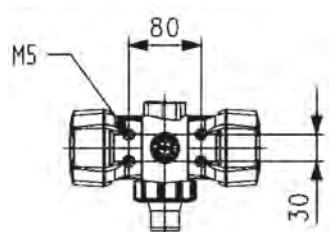
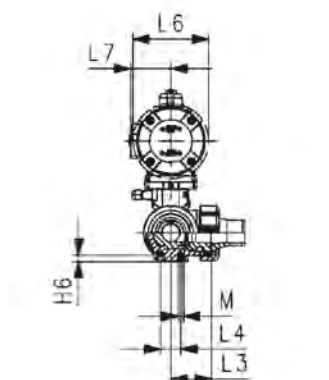
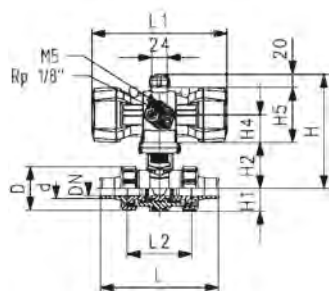
With socket fusion spigots metric

Model:

- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	3/8	10	50	199 296 002	1.035	199 296 012	1.035
20	15	1/2	10	75	199 296 003	1.041	199 296 013	1.041
25	20	3/4	10	150	199 296 004	1.135	199 296 014	1.135
32	25	1	10	280	199 296 005	1.265	199 296 015	1.265
40	32	1 1/4	10	480	199 296 006	2.231	199 296 016	2.231
50	40	1 1/2	10	620	199 296 007	2.554	199 296 017	2.554
63	50	2	10	1230	199 296 008	3.502	199 296 018	3.502

d	Actuator	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L6
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	PPA08	50	157	28	62	95	41	75	8	126	159	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	136	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	159	211	85	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	178	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	204	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	237	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	296	246	176	88	45	120

d	L7	M	closest
(mm)	(mm)		inch
			(inch)
16	32	6	3/8
20	32	6	1/2
25	38	6	3/4
32	38	6	1
40	47	8	1 1/4
50	47	8	1 1/2
63	47	8	2



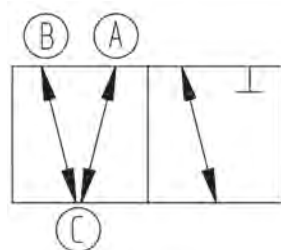
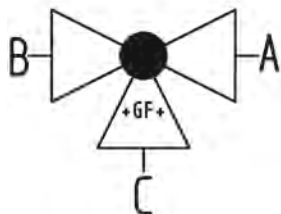
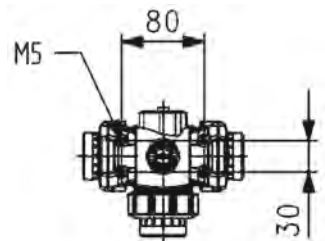
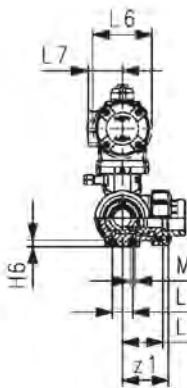
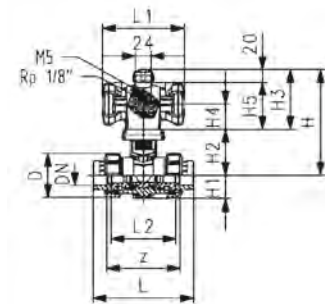
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
DA (Double acting)
Without manual override
With threaded sockets reinforced Rp

Model:

- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



d	DN	Thread	Type	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)			(inch)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
						(l/min)				
16	10		Rp	¾	10	140	199 296 302	0.840	199 296 312	0.840
20	15		Rp	½	10	200	199 296 303	0.844	199 296 313	0.844
25	20		Rp	¾	10	470	199 296 304	0.934	199 296 314	0.934
32	25		Rp	1	10	793	199 296 305	1.055	199 296 315	1.055
40	32		Rp	1 ¼	10	1290	199 296 306	1.786	199 296 316	1.786
50	40		Rp	1 ½	10	1910	199 296 307	2.075	199 296 317	2.075
63	50		Rp	2	10	3100	199 296 308	2.967	199 296 318	2.967

Actuator	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L6
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
PPA08	50	157	28	62	95	41	75	8	112	128	72	36	25	74
PPA08	50	157	28	62	95	41	75	8	114	128	72	36	25	74
PPA08	58	166	32	71	95	41	75	8	131	128	85	43	25	74
PPA08	68	166	36	71	95	41	75	8	154	128	98	49	25	74
PPA15	84	192	45	84	108	45	88	9	180	165	118	59	45	94
PPA15	97	192	51	84	108	45	88	9	203	165	135	68	45	94
PPA40	124	237	65	106	131	56	111	9	258	184	176	88	45	120

L7	M	z	z1
(mm)	(mm)	(mm)	(mm)
32	6	86	43
32	6	84	42
32	6	99	50
32	6	112	56
38	8	132	66
38	8	153	77
47	8	196	98



PROGEF Standard 3-Way ball valve type 543 Pro P

Horizontal/T-port

Without manual override

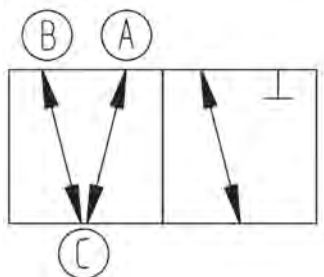
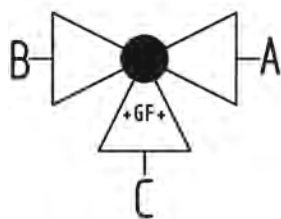
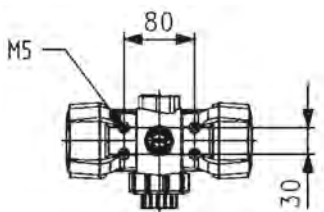
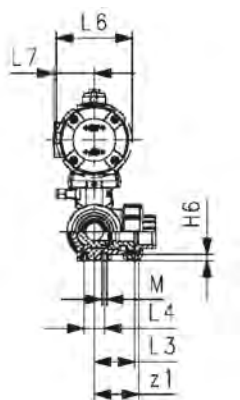
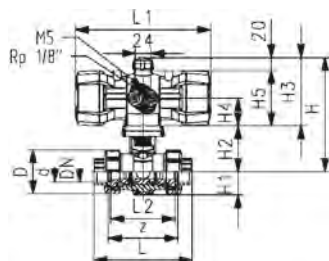
With fusion sockets metric

Model:

- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

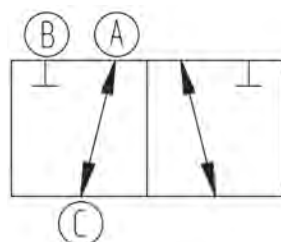
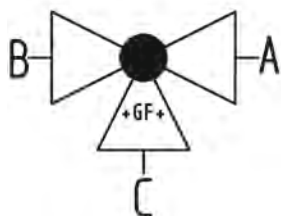
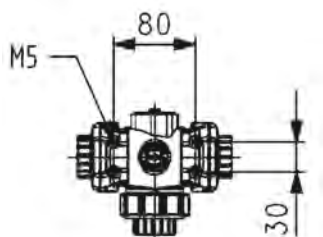
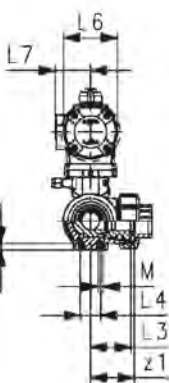
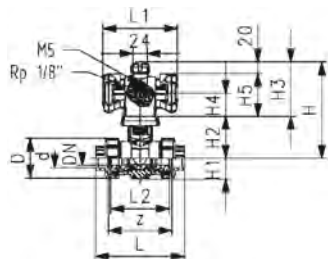
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	3/8	10	140	199 296 062	1.031	199 296 072	1.031
20	15	1/2	10	200	199 296 063	1.035	199 296 073	1.035
25	20	3/4	10	470	199 296 064	1.133	199 296 074	1.124
32	25	1	10	793	199 296 065	1.245	199 296 075	1.266
40	32	1 1/4	10	1290	199 296 066	2.210	199 296 076	2.210
50	40	1 1/2	10	1910	199 296 067	2.514	199 296 077	2.499
63	50	2	10	3100	199 296 068	3.391	199 296 078	3.391

d	Actuator	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L6
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	PPA08	50	157	28	62	95	41	75	8	110	159	72	36	25	74
20	PPA08	50	157	28	62	9	41	75	8	112	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	129	211	85	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	146	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	170	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	193	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	244	246	176	88	45	120

d	L7	M	z	z1	closest
(mm)	(mm)		(mm)	(mm)	inch
					(inch)
16	32	6	82	41	3/8
20	32	6	82	41	1/2
25	38	6	97	49	3/4
32	38	6	110	55	1
40	47	8	132	66	1 1/4
50	47	8	151	76	1 1/2
63	47	8	188	94	2





PROGEF Standard 3-Way ball valve type 543 Pro P

Horizontal/T-port

Without manual override

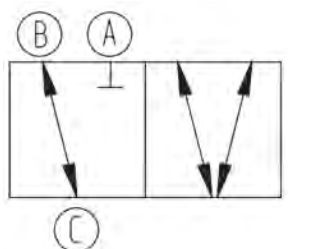
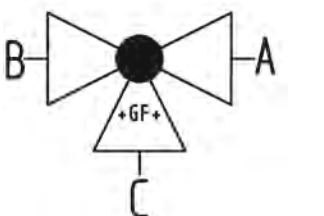
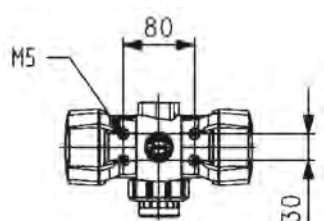
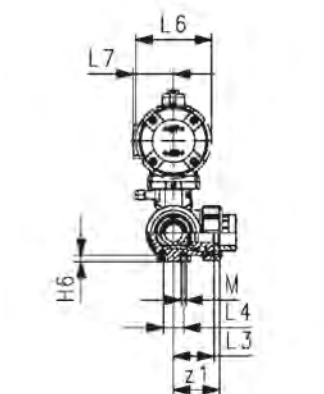
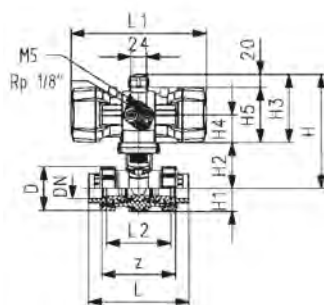
With threaded sockets reinforced Rp

Model:

- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time $90^\circ < 1-2s$
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

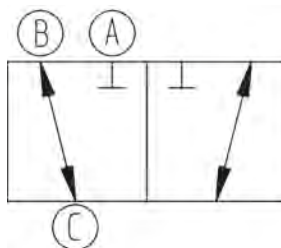
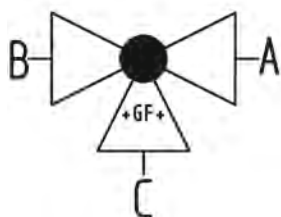
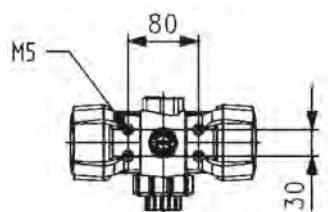
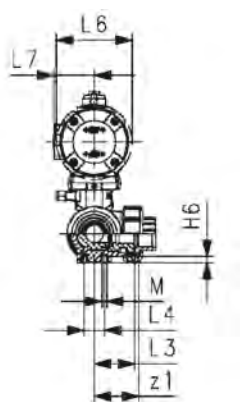
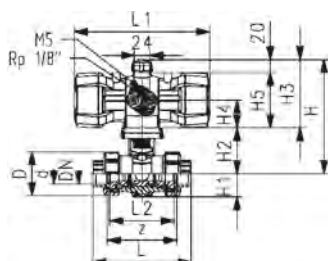
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



d (mm)	DN (mm)	Thread	Type	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	Rp		$\frac{3}{8}$	10	140	199 296 142	1.031	199 296 152	1.031
20	15	Rp		$\frac{1}{2}$	10	200	199 296 143	1.035	199 296 153	1.035
25	20	Rp		$\frac{3}{4}$	10	470	199 296 144	1.124	199 296 154	1.124
32	25	Rp		1	10	793	199 296 145	1.245	199 296 155	1.245
40	32	Rp		1 $\frac{1}{4}$	10	1290	199 296 146	2.210	199 296 156	2.210
50	40	Rp		1 $\frac{1}{2}$	10	1910	199 296 147	2.499	199 296 157	2.499
63	50	Rp		2	10	3100	199 296 148	3.391	199 296 158	3.391

Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
PPA08	50	157	28	62	95	41	75	8	112	159	72	36	25	74
PPA08	50	157	28	62	95	41	75	8	114	159	72	36	25	74
PPA15	58	179	32	71	108	45	88	8	131	211	85	43	25	94
PPA15	68	179	36	71	108	45	88	8	154	211	98	49	25	94
PPA40	84	215	45	84	131	56	111	9	180	246	118	59	45	120
PPA40	97	215	51	84	131	56	111	9	203	246	135	68	45	120
PPA40	124	237	65	106	131	56	111	9	258	246	176	88	45	120

L7 (mm)	M (mm)	z (mm)	z1 (mm)
32	6	86	43
32	6	84	42
38	6	99	50
38	6	112	56
47	8	132	66
47	8	153	77
47	8	196	98



PROGEF Standard 3-Way ball valve type 543 Pro P

Horizontal/L-port

Without manual override

With fusion sockets metric

Model:

- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

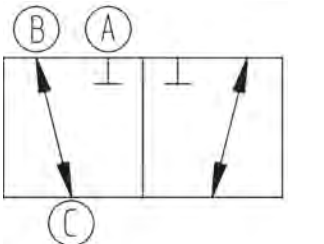
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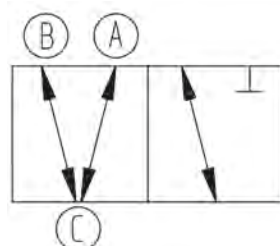
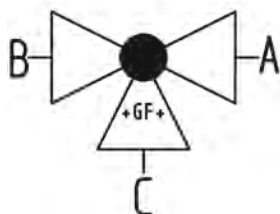
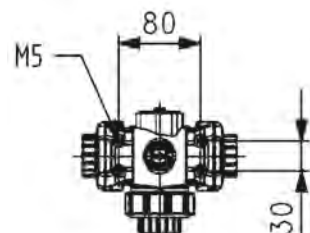
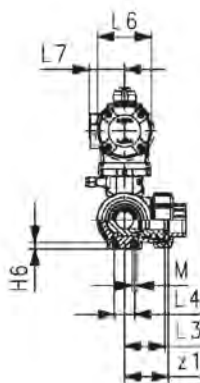
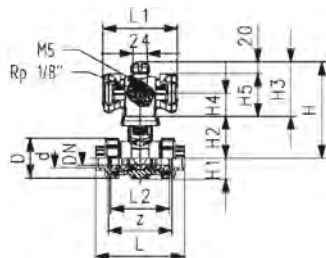
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	3/8	10	50	199 296 022	1.031	199 296 032	1.031
20	15	1/2	10	75	199 296 023	1.035	199 296 033	1.035
25	20	3/4	10	150	199 296 024	1.125	199 296 034	1.125
32	25	1	10	280	199 296 025	1.265	199 296 035	1.250
40	32	1 1/4	10	480	199 296 026	2.217	199 296 036	2.217
50	40	1 1/2	10	620	199 296 027	2.513	199 296 037	2.513
63	50	2	10	1230	199 296 028	3.420	199 296 038	3.500

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	110	159	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	112	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	129	211	85	43	25	94
32	PAA15	68	179	36	71	108	45	88	8	146	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	170	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	193	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	244	246	176	88	45	120

d (mm)	L7 (mm)	M (mm)	z (mm)	z1 (mm)	closest inch (inch)
16	32	6	82	41	3/8
20	32	6	82	41	1/2
25	38	6	97	49	3/4
32	38	6	110	55	1
40	47	8	132	66	1 1/4
50	47	8	151	76	1 1/2
63	47	8	188	94	2





PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
DA (Double acting)
Without manual override
With fusion sockets metric

Model:

- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

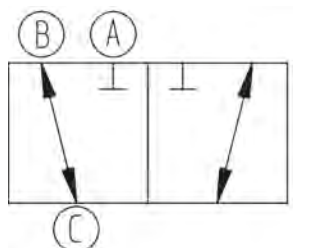
Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

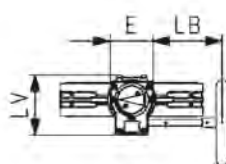
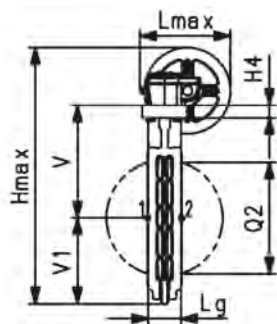
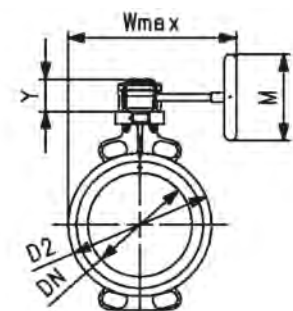
d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	3/8	10	140	199 296 222	0.840	199 296 232	0.840
20	15	1/2	10	200	199 296 223	0.844	199 296 233	0.844
25	20	3/4	10	470	199 296 224	0.934	199 296 234	0.934
32	25	1	10	793	199 296 225	1.055	199 296 235	1.055
40	32	1 1/4	10	1290	199 296 226	1.786	199 296 236	1.786
50	40	1 1/2	10	1910	199 296 227	2.075	199 296 237	2.075
63	50	2	10	3100	199 296 228	2.967	199 296 238	2.967

d	Actuator	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L6
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	PPA08	50	157	28	62	95	41	75	8	110	128	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	112	128	72	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	129	128	85	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	146	128	98	49	25	74
40	PPA15	84	192	45	84	108	45	88	9	170	165	118	59	45	94
50	PPA15	97	192	51	84	108	45	88	9	193	165	135	68	45	94
63	PPA40	124	237	65	106	131	56	111	9	244	184	176	88	45	120

d	L7	M	z	z1	closest
(mm)	(mm)		(mm)	(mm)	inch
					(inch)
16	32	6	82	41	3/8
20	32	6	82	41	1/2
25	32	6	97	49	3/4
32	32	6	110	55	1
40	38	8	132	66	1 1/4
50	38	8	151	76	1 1/2
63	47	8	188	94	2



Butterfly valves type 565



Wafer-style intermediate installation butterfly valve type 565 manual PVDF/PA-GF

With gear box

Wafer style metric/ANSI/BS/JIS

Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand (lockable hand lever), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	199 565 200	3.0	199 565 220	3.1
75	65	2 ½	16	2530	199 565 201	3.2	199 565 221	3.3
90	80	3	16	4020	199 565 202	3.4	199 565 222	3.5
110	100	4	16	5850	199 565 203	4.2	199 565 223	4.3
140	125	5	16	11900	199 565 204	4.7	199 565 224	5.0
160	150	6	16	18050	199 565 205	5.5	199 565 225	5.8
225	200	8	10	43667	199 565 206	6.7	199 565 226	7.2
280	250	10	10	62333	199 565 207	12.7	199 565 227	13.4
315	300	12	6	94500	199 565 208	16.5	199 565 228	17.6

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	LB (mm)	LV (mm)	M (mm)	Y (mm)
63	100.0	238.5	303.0	169.0	23	133.5	63.0	43	80	128.0	112.5	160	61.5
75	121.0	246.0	329.0	169.0	23	140.0	82.0	46	80	128.0	112.5	160	61.5
90	138.0	248.5	341.5	169.0	23	146.0	89.0	46	80	128.0	112.5	160	61.5
110	158.5	258.5	377.5	169.0	23	166.5	104.0	52	80	128.0	112.5	160	61.5
140	187.0	272.0	405.0	169.0	23	180.0	118.0	56	80	128.0	112.5	160	61.5
160	213.0	285.5	426.5	169.0	23	189.0	130.5	56	80	128.0	112.5	160	61.5
225	267.0	312.5	475.5	169.0	23	209.5	159.0	60	80	128.0	112.5	160	61.5
280	325.5	360.5	603.0	212.5	23	262.5	195.5	68	100	135.5	130.0	200	68.5
315	380.0	387.5	659.5	212.5	23	284.5	230.5	78	100	135.5	130.0	200	68.5

d (mm)	Q2 (mm)
63	28.5
75	44.0
90	63.5
110	84.0
140	110.5
160	137.5
225	190.5
280	239.0
315	285.5



Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF

Bare shaft

Flange standard metric/ANSI/BS/JIS Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

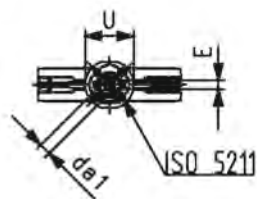
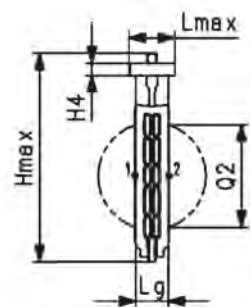
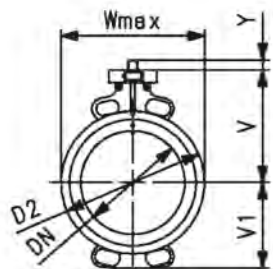
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

- Individual configuration of the valve possible
- Hand (lockable), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

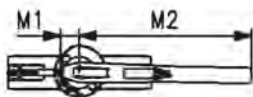
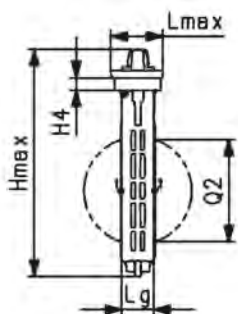
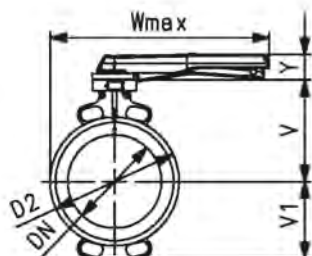
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	Acc.to ISO 5211	EPDM Code	Weight (kg)
63	50	2	16	1445	F07	199 565 100	0.9
75	65	2 1/2	16	2530	F07	199 565 101	1.1
90	80	3	16	4020	F07	199 565 102	1.3
110	100	4	16	5850	F07	199 565 103	2.0
140	125	5	16	11900	F07	199 565 104	2.6
160	150	6	16	18050	F07	199 565 105	3.7
225	200	8	10	43667	F07	199 565 106	4.7
280	250	10	10	62333	F10	199 565 107	8.8
315	300	12	6	94500	F10	199 565 108	12.6

d (mm)	FKM Code	Weight (kg)
63	199 565 120	1.0
75	199 565 121	1.2
90	199 565 122	1.4
110	199 565 123	2.2
140	199 565 124	2.9
160	199 565 125	3.8
225	199 565 126	5.2
280	199 565 127	9.5
315	199 565 128	13.7

d (mm)	D2 (mm)	Wmax (mm)	Lmax (mm)	Hmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	da1 (mm)	E (mm)	U (mm)	Y (mm)	Q2 (mm)
63	100.0	118.5	85.5	222.5	23.0	133.5	63.0	43.0	14.1	11.0	90.0	27.0	28.5
75	121.0	132.5	85.5	248.5	23.0	140.0	82.0	46.0	14.1	11.0	90.0	27.0	44.0
90	138.0	138.0	85.5	261.0	23.0	146.0	89.0	46.0	14.1	11.0	90.0	27.0	63.5
110	158.5	158.5	85.5	286.0	23.0	166.5	104.0	52.0	18.1	14.0	90.0	16.0	84.0
140	187.0	187.0	85.5	313.5	23.0	180.0	118.0	56.0	18.1	14.0	90.0	16.0	110.5
160	213.0	213.0	85.5	337.5	23.0	189.0	130.5	56.0	22.2	17.0	90.0	19.0	137.5
225	267.0	267.0	85.5	387.0	23.0	209.5	159.0	60.0	22.2	17.0	90.0	18.5	190.5
280	325.5	325.5	125.0	498.5	23.0	262.5	195.5	68.0	28.2	22.0	125.0	40.5	239.0
315	380.0	380.0	125.0	555.0	23.0	284.5	230.5	78.0	28.2	22.0	125.0	40.5	285.5



Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF

With hand lever

Flange standard metric/ANSI/BS/JIS

Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Lockable ergonomic lever
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

- Individual configuration of the valve possible
- Pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
63	2	50	16	1445	199 565 000	1.3	199 565 020	1.4
75	2 1/2	65	16	2530	199 565 001	1.5	199 565 021	1.6
90	3	80	16	4020	199 565 002	1.7	199 565 022	1.8
110	4	100	16	5850	199 565 003	2.5	199 565 023	2.7
140	5	125	16	11900	199 565 004	3.1	199 565 024	3.3
160	6	150	16	18050	199 565 005	4.0	199 565 025	4.3
225	8	200	10	43667	199 565 006	5.3	199 565 026	5.7

d	D2	Wmax	Hmax	Lmax	H4	V	V1	Lg	M1	M2	Y	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	100.0	264.0	249.5	96.0	23.0	133.5	63.0	43.0	35.5	204.5	53.0	28.5
75	121.0	271.0	275.5	96.0	23.0	140.0	82.0	46.0	35.5	204.5	53.0	44.0
90	138.0	273.5	288.0	96.0	23.0	146.0	89.0	46.0	35.5	204.5	53.0	63.5
110	158.5	334.0	324.0	96.0	23.0	166.5	104.0	52.0	35.5	254.5	53.0	84.0
140	187.0	348.0	351.0	96.0	23.0	180.0	118.0	56.0	35.5	254.5	53.0	110.5
160	213.0	426.0	372.5	96.0	23.0	189.0	130.5	56.0	35.5	319.5	53.0	137.5
225	267.0	453.0	422.0	96.0	23.0	209.5	159.0	60.0	35.5	319.5	53.0	190.5



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - fail safe to close (FC)
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

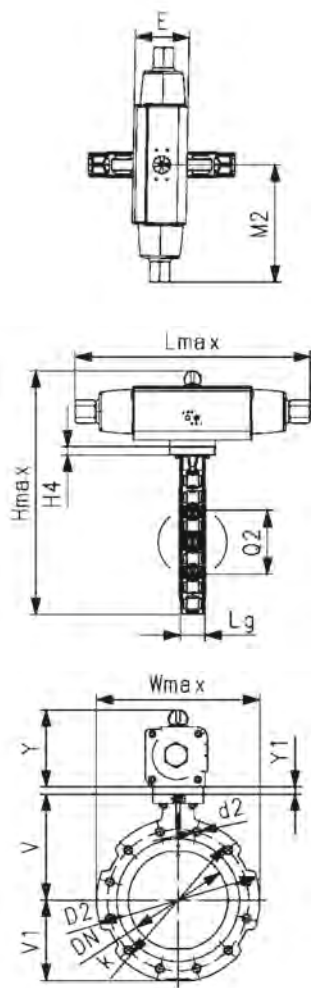
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-100-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	PA30	199 575 500	3.200	199 575 520	3.300
75	65	2 ½	10	2530	PA30	199 575 501	3.500	199 575 521	3.600
90	80	3	10	4020	PA35	199 575 502	4.300	199 575 522	4.400
110	100	4	10	5850	PA40	199 575 503	5.900	199 575 523	6.100
140	125	5	10	11900	PA45	199 575 504	7.900	199 575 524	8.200
160	150	6	10	18050	PA50	199 575 505	10.700	199 575 525	11.000
225	200	8	10	43667	PA60	199 575 506	16.400	199 575 526	16.900
280	250	10	10	62333	PA65	199 575 507	25.500	199 575 527	26.200
315	300	12	6	94500	PA70	199 575 508	32.100	199 575 528	33.300

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2 (mm)	D2 (mm)	H4 (mm)	E (mm)
63	50	316.6	274.4	140	133.3	70.1	98.2	43	28.3	125	M16	155	23	70.4
75	65	333.9	274.4	161	139.9	80.8	98.2	46	43.8	145	M16	175	23	70.4
90	80	363.0	325.2	180	145.6	91.3	111.1	46	63.5	160	M16	190	23	83.3
110	100	387.4	359.6	211	166.4	106.2	114.8	52	83.7	180	M16	221	23	87.0
140	125	449.8	418.0	239	180.0	120.3	149.5	56	110.4	210	M16	250	23	107.5
160	150	474.5	434.0	263	189.0	132.4	153.1	56	137.3	240	M20	277	23	111.1
225	200	546.8	547.3	319	209.5	160.3	177.0	60	191.1	295	M20	337	23	135.0
280	250	668.6	646.0	403	262.5	199.1	190.0	68	238.9	350	M20	403	23	148.0
315	300	746.9	681.0	482	284.3	235.5	210.1	78	285.5	400	M20	479	23	168.0

d (mm)	DN (mm)	Y1 (mm)	M2 (mm)
63	50	15	137.2
75	65	15	137.2
90	80	15	162.6
110	100		179.8
140	125		209.0
160	150		217.0
225	200		274.0
280	250	17	323.0
315	300	17	340.5



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - fail safe to close (FC)
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

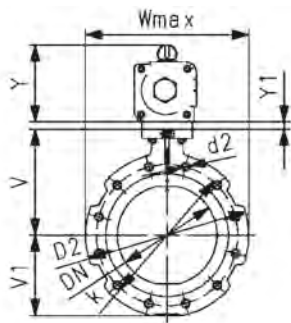
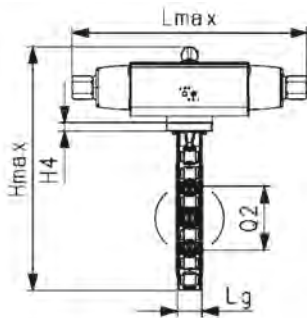
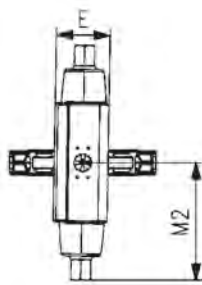
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-100-value (Δp=1 bar) (L/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	PA30	199 576 500	3.200	199 576 520	3.300
75	65	2 ½	16	2530	PA30	199 576 501	3.500	199 576 521	3.600
90	80	3	16	4020	PA35	199 576 502	4.300	199 576 522	4.400
110	100	4	16	5850	PA40	199 576 503	5.900	199 576 523	6.100
140	125	5	16	11900	PA45	199 576 504	7.900	199 576 524	8.200
160	150	6	16	18050	PA50	199 576 505	10.700	199 576 525	11.000
225	200	8	10	43667	PA60	199 576 506	16.400	199 576 526	16.900
280	250	10	10	62333	PA65	199 576 507	25.500	199 576 527	26.200
315	300	12	6	94500	PA70	199 576 508	32.100	199 576 528	33.300

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2 (mm)	D2 (mm)	H4 (mm)
63	50	316.6	274.4	140	133.3	70.1	98.2	43	28.3	120.7	UNC 5/8	155	23
75	65	333.9	274.4	161	139.9	80.8	98.2	46	43.8	139.7	UNC 5/8	175	23
90	80	363.0	325.2	180	145.6	91.3	111.1	46	63.5	152.4	UNC 5/8	190	23
110	100	287.4	259.6	211	166.4	106.2	114.8	52	83.7	190.5	UNC 5/8	221	23
140	125	449.8	418.0	239	180.0	120.3	149.5	56	110.4	215.9	UNC 3/4	250	23
160	150	474.5	434.0	263	189.0	132.4	153.1	56	137.3	241.3	UNC 3/4	277	23
225	200	546.8	547.3	319	209.5	160.3	177.0	60	191.1	298.5	UNC 3/4	337	23
280	250	668.6	646.0	403	262.5	199.1	190.0	68	238.9	362.0	UNC 7/8	403	23
315	300	746.9	681.0	482	284.3	235.5	210.1	78	285.5	431.8	UNC 7/8	479	23

d (mm)	DN (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	50	70.4	15	137.2
75	65	70.4	15	137.2
90	80	83.3	15	162.6
110	100	87.0		179.8
140	125	107.5		209.0
160	150	111.1		217.0
225	200	135.0		274.0
280	250	148.0	17	323.0
315	300	168.0	17	340.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With electric actuator 230V
Without manual override
Flange standard metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

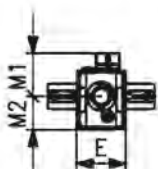
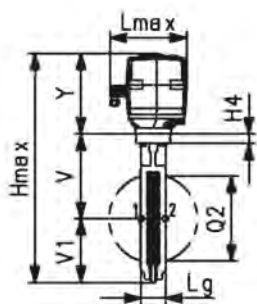
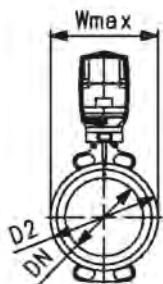
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Manual override integrated in electric actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board
- Additional manual override between valve and actuator

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	EA45	199 565 300	3.3	199 565 320	3.4
75	65	2 ½	10	2530	EA120	199 565 301	4.6	199 565 321	4.7
90	80	3	10	4020	EA120	199 565 302	4.7	199 565 322	4.8
110	100	4	10	5850	EA120	199 565 303	5.6	199 565 323	5.8
140	125	5	10	11900	EA120	199 565 304	6.1	199 565 324	6.4
160	150	6	10	18050	EA250	199 565 305	8.7	199 565 325	9.0
225	200	8	10	43667	EA250	199 565 306	10.0	199 565 326	10.5
280	250	10	6	62333	EA250	199 565 307	14.5	199 565 327	15.2
315	300	12	4	94500	EA250	199 565 308	18.2	199 565 328	19.4

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M1 (mm)	M2 (mm)	Y (mm)	Q2 (mm)
63	100.0	122.5	377.5	190.0	23	133.5	63.0	43	122.5	107.5	83	166.5	28.5
75	121.0	132.5	411.5	190.0	23	140.0	82.0	46	122.5	107.5	83	189.5	44.0
90	138.0	137.5	424.0	190.0	23	146.0	89.0	46	122.5	107.5	83	189.5	63.5
110	158.5	158.5	459.5	190.0	23	166.5	104.0	52	122.5	107.5	83	189.5	84.0
140	187.0	187.0	487.5	190.0	23	180.0	118.0	56	122.5	107.5	83	189.5	110.5
160	213.0	213.0	518.5	190.0	23	189.0	130.5	56	122.5	107.5	83	199.5	137.5
225	267.0	267.0	568.0	190.0	23	209.5	159.0	60	122.5	107.5	83	199.5	190.5
280	325.5	325.5	674.5	190.0	23	262.5	195.5	68	122.5	107.5	83	216.5	239.0
315	380.0	380.0	731.0	190.0	23	284.5	230.5	78	122.5	107.5	83	216.5	285.5

Butterfly valves type 567



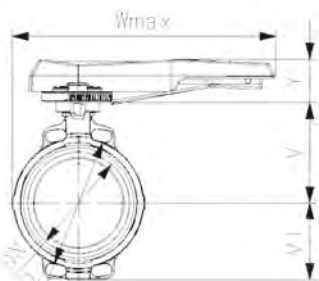
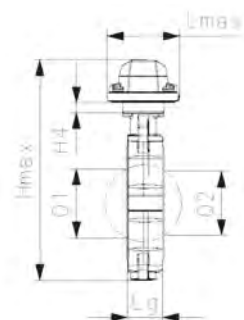
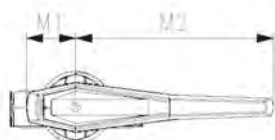
PROGEF Standard Wafer-style intermediate installation butterfly valve type 567 With hand lever Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

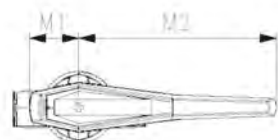


d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	167 567 002	1.170	167 567 022	1.627
75	2 ½	65	10	1500	167 567 003	1.254	167 567 023	1.061
90	3	80	10	2400	167 567 004	1.384	167 567 024	1.404
110	4	100	10	3800	167 567 005	1.961	167 567 025	1.998
140	5	125	10	8600	167 567 006	2.367	167 567 026	2.429
160	6	150	10	11400	167 567 007	3.741	167 567 027	3.246
225	8	200	10	19900	167 567 008	5.545	167 567 028	5.609
280	10	250	6	34000	167 567 009	11.061	167 567 029	11.841
315	12	300	6	50000	167 567 010	16.548	167 567 030	13.245

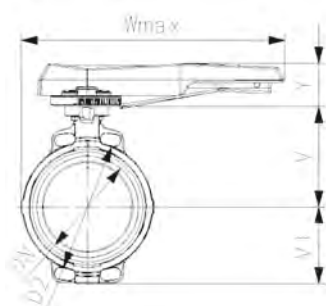
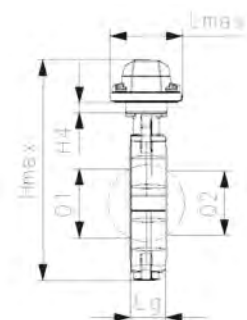
d (mm)	PTFE Code	Weight (kg)
63	167 567 202	1.170
75	167 567 203	1.254
90	167 567 204	1.384
110	167 567 205	1.961
140	167 567 206	2.367
160	167 567 207	3.741
225	167 567 208	5.545
280	167 567 209	11.061
315	167 567 210	16.548

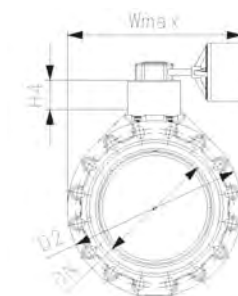
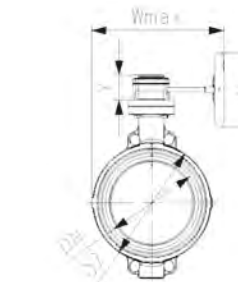
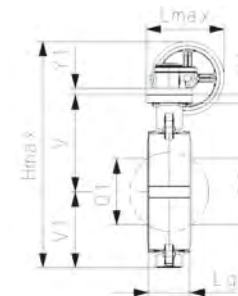
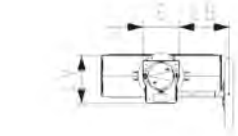
d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	M1 (mm)
63	278.9	115.2	269.0	90	133.3	23	78.8	45	104	40		125	66.8	64.7
75	291.8	115.2	281.8	90	139.9	23	85.1	46	115	54	35	145	66.8	64.7
90	303.6	115.2	273.9	90	145.6	23	91.2	49	131	67	50	160	66.8	64.7
110	342.2	115.2	336.0	90	166.4	23	105.7	56	161	88	74	180	70.1	64.9
140	368.9	115.2	349.0	90	180.0	23	118.8	64	187	113	97	210	70.1	64.9
160	390.0	115.2	363.0	90	189.0	23	130.9	72	215	139	123	240	70.1	64.9
225	455.1	149.4	543.0	90	210.5	23	158.3	73	267	178	169	295	86.3	103.6
280	555.0	149.4	574.0	125	262.6	23	206.1	113	329	210	207	350	86.3	103.6
315	599.4	149.4	599.7	125	284.3	23	228.8	113	379	256	253	400	86.3	103.6

d (mm)	M2 (mm)
63	205.5
75	205.5
90	205.5
110	255.5
140	255.5



d (mm)	M2 (mm)
160	255.5
225	409.5
280	409.5
315	409.5





PROGEF Standard Wafer-style intermediate installation butterfly valve type 567 With gear box Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

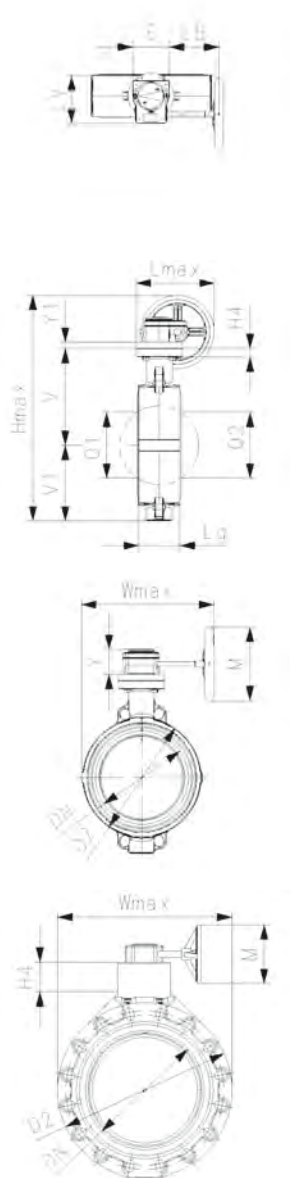
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	740	167 567 042	3.003	167 567 062	3.007
75	2 ½	65	10	1500	167 567 043	2.781	167 567 063	3.099
90	3	80	10	2400	167 567 044	3.301	167 567 064	3.229
110	4	100	10	3800	167 567 045	3.736	167 567 065	3.741
140	5	125	10	8600	167 567 046	2.770	167 567 066	4.243
160	6	150	10	11400	167 567 047	4.969	167 567 067	5.038
225	8	200	10	19900	167 567 048	8.538	167 567 068	6.539
280	10	250	8	34000	167 567 049	12.884	167 567 069	13.074
315	12	300	8	50000	167 567 050	16.442	167 567 070	16.066
355	14	350	6	90000	167 567 051	40.000	167 567 071	40.000
400	16	400	6	115000	167 567 052	50.000	167 567 072	50.000
450	18	450	5	155000	167 567 053	70.000	167 567 073	70.000
500	20	500	4	204000	167 567 054	90.000	167 567 074	90.000
630	24	600	4	265000	167 567 055	125.000	167 567 075	125.000

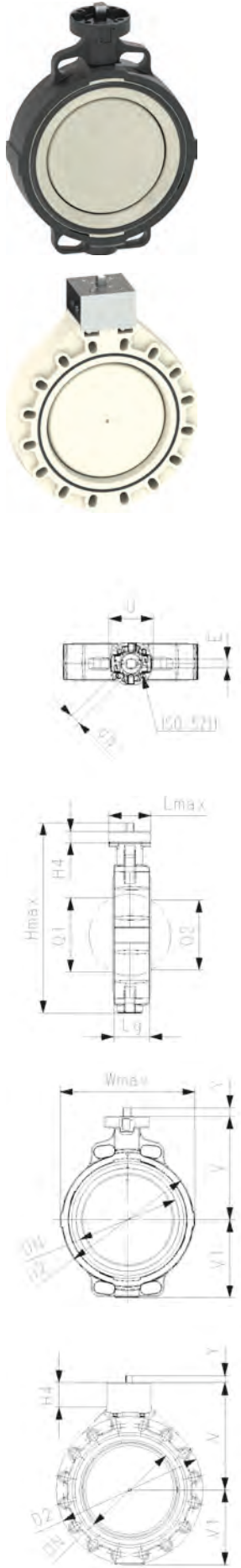
d	PTFE	Weight
(mm)	Code	(kg)
63	167 567 242	3.003
75	167 567 243	2.781
90	167 567 244	3.301
110	167 567 245	3.736
140	167 567 246	2.770
160	167 567 247	4.969
225	167 567 248	8.538
280	167 567 249	12.884
315	167 567 250	16.442
355	167 567 251	40.000
400	167 567 252	50.000
450	167 567 253	70.000
500	167 567 254	90.000
630	167 567 255	125.000

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y1	M
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	319.4	169.1	240.2	90	133.3	23	78.8	45	104	40		125		160
75	332.3	169.1	247.3	90	139.9	23	85.1	46	115	54	35	145		160
90	344.1	169.1	249.4	90	145.6	23	91.2	49	131	67	50	160		160
110	379.4	169.1	261.5	90	166.4	23	105.7	56	161	88	74	180		160
140	406.1	169.1	274.5	90	180.0	23	118.8	64	187	113	97	210		160
160	427.2	169.1	288.5	90	189.0	23	130.9	72	215	139	123	240		160
225	476.1	169.1	267.0	90	210.5	23	158.3	73	267	178	169	295		160
280	613.0	212.6	329.0	125	262.6	23	206.1	113	329	210	207	350	17	200
315	657.4	212.6	380.4	125	284.3	23	228.8	113	379	256	253	400	17	200
355	805.0	217.0	535.0	180	410.0	100	268.0	129	535	325	305	460		200



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y1	M
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
400	865.0	245.0	595.0	180	435.0	100	300.0	169	595	353	350	515		200
450	992.0	275.0	635.0	220	520.0	130	320.0	179	635	393	390	565		250
500	1083.0	321.0	700.0	220	550.0	130	350.0	190	700	444	440	620		300
630	1216.0	331.0	813.0	220	610.0	130	420.0	209	813	530	527	725		300

d	Y	E	LV	LB
(mm)	(mm)	(mm)	(mm)	(mm)
63	61.2	80	112.3	129.5
75	61.2	80	112.3	129.5
90	61.2	80	112.3	129.5
110	61.2	80	112.3	129.5
140	61.2	80	112.3	129.5
160	61.2	80	112.3	129.5
225	61.2	80	112.3	129.5
280	68.4	100	130.0	134.0
315	68.4	100	130.0	134.0
355	62.0	130	146.0	122.0
400	62.0	130	174.0	122.0
450	62.0	130	185.0	203.0
500	70.0	174	201.0	151.0
630	70.0	74	210.0	151.0



PROGEF Standard Wafer-style intermediate installation butterfly valve type 567

Bare shaft

Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211
- Interface F12 for the dimensions DN350-400 according to DIN/ISO 5211
- Interface F14 for the dimensions DN450-600 according to DIN/ISO 5211

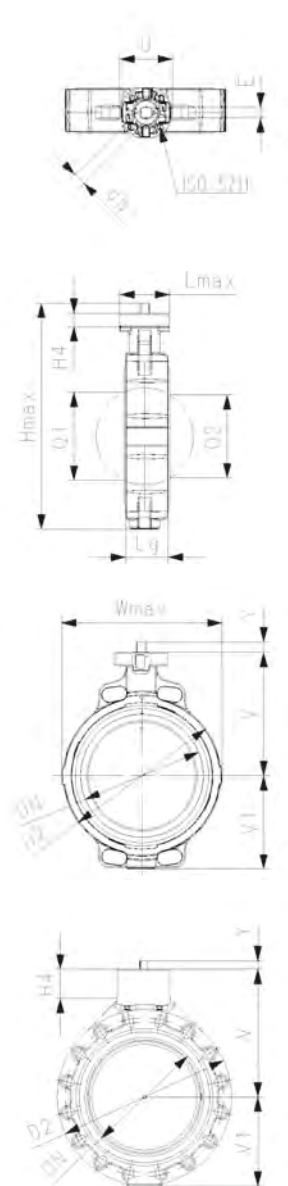
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	167 567 802	0.699	167 567 822	0.721
75	2 ½	65	10	1500	167 567 803	0.793	167 567 823	0.804
90	3	80	10	2400	167 567 804	0.913	167 567 824	0.939
110	4	100	10	3800	167 567 805	1.409	167 567 825	1.450
140	5	125	10	8600	167 567 806	1.831	167 567 826	1.929
160	6	150	10	11400	167 567 807	2.641	167 567 827	2.713
225	8	200	10	19900	167 567 808	4.110	167 567 828	4.186
280	10	250	8	34000	167 567 809	9.412	167 567 829	10.251
315	12	300	8	50000	167 567 810	13.054	167 567 830	13.251
355	14	350	6	90000	167 567 811	35.000	167 567 831	35.000
400	16	400	6	115000	167 567 812	45.000	167 567 832	45.000
450	18	450	5	155000	167 567 813	60.000	167 567 833	60.000
500	20	500	4	204000	167 567 814	75.000	167 567 834	75.000
630	24	600	4	265000	167 567 815	110.000	167 567 835	110.000

d (mm)	Size (inch)	DN (mm)	PTFE Code	Weight (kg)
63	2	50	167 567 840	0.699
75	2 ½	65	167 567 841	0.793
90	3	80	167 567 842	0.913
110	4	100	167 567 843	1.409
140	5	125	167 567 844	1.831
160	6	150	167 567 845	2.641
225	8	200	167 567 846	4.110
280	10	250	167 567 847	9.412
315	12	300	167 567 848	13.054
355	14	350	167 567 849	35.000
400	16	400	167 567 850	45.000
450	18	450	167 567 851	60.000
500	20	500	167 567 852	75.000
630	24	600	167 567 853	110.000

d (mm)	Size (inch)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k
63	2	50	238.3	84.8	118.4	90	133.3	23	78.8	45	104	40		125
75	2 ½	65	251.2	84.8	132.5	90	139.9	23	85.1	46	115	54	35	145
90	3	80	263.0	84.8	136.8	90	145.6	23	91.2	49	131	67	50	160
110	4	100	287.5	84.8	161.0	90	166.4	23	105.7	56	161	88	74	180
140	5	125	314.2	84.8	187.0	90	180.0	23	118.8	64	187	113	97	210
160	6	150	338.3	84.8	215.0	90	189.0	23	130.9	72	215	139	123	240
225	8	200	387.2	84.8	267.0	90	210.5	23	158.3	73	267	178	169	295
280	10	250	508.9	125.0	329.0	125	262.6	23	206.1	113	329	210	207	350
315	12	300	553.3	125.0	380.4	125	284.3	23	228.8	113	379	256	253	400
355	14	350	709.0	180.0	535.0	180	410.0	100	268.0	129	535	325	305	460



d	Size	DN	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
400	16	400	766.0	180.0	595.0	180	435.0	100	300.0	169	595	353	350	515
450	18	450	875.0	220.0	635.0	220	520.0	130	320.0	179	635	393	390	565
500	20	500	935.0	220.0	700.0	220	550.0	130	350.0	190	700	444	440	620
630	24	600	1065.0	220.0	813.0	220	610.0	130	420.0	209	813	530	527	725

d	Size	DN	Y	E	da1
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
63	2	50	26.2	11	13.5
75	2 ½	65	26.2	11	13.5
90	3	80	26.2	11	13.5
110	4	100	15.4	14	17.3
140	5	125	15.4	14	17.3
160	6	150	18.4	17	21.1
225	8	200	18.4	17	21.1
280	10	250	40.2	22	27.0
315	12	300	40.2	22	27.0
355	14	350	31.0	22	28.5
400	16	400	31.0	27	36.0
450	18	450	35.0	27	36.0
500	20	500	35.0	27	36.0
630	24	600	35.0	36	45.0

Butterfly valves type 578



PROGEF Standard Lug-style end installation butterfly valve type 578 With hand lever Flange standard metric

Model:

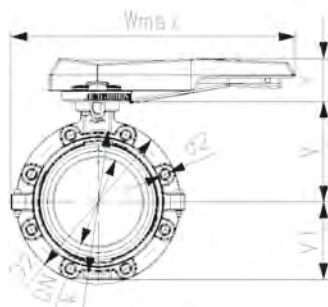
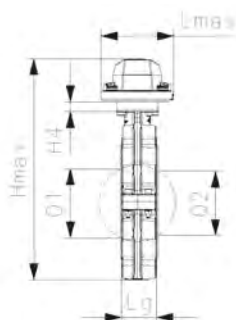
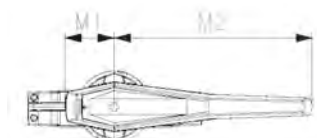
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	740	167 578 002	1.800	167 578 022	1.800
75	2 ½	65	10	1500	167 578 003	1.895	167 578 023	1.895
90	3	80	10	2400	167 578 004	2.251	167 578 024	2.251
110	4	100	10	3800	167 578 005	3.146	167 578 025	3.146
140	5	125	10	8600	167 578 006	4.660	167 578 026	4.660
160	6	150	10	11400	167 578 007	6.430	167 578 027	6.430
225	8	200	10	19900	167 578 008	8.625	167 578 028	8.625
280	10	250	6	34000	167 578 009	19.528	167 578 029	19.528
315	12	300	6	50000	167 578 010	26.106	167 578 030	26.106

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	M1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	278.9	115.2	287.8	90	133.9	23	78.8	44.7	160	40		M16	125	63.7
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	M16	145	63.7
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	M16	160	63.7
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	M16	180	63.7
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	M16	210	63.7
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	M20	240	63.7
225	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	M20	295	101.7
280	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	M20	350	101.7
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	M20	400	101.7

d	M2
(mm)	(mm)
63	205.3
75	205.3
90	205.3
110	255.2
140	255.2
160	255.2
225	408.1
280	408.1
315	408.1



PROGEF Standard Lug-style end installation butterfly valve type 578

With gear box

Flange standard metric

Model:

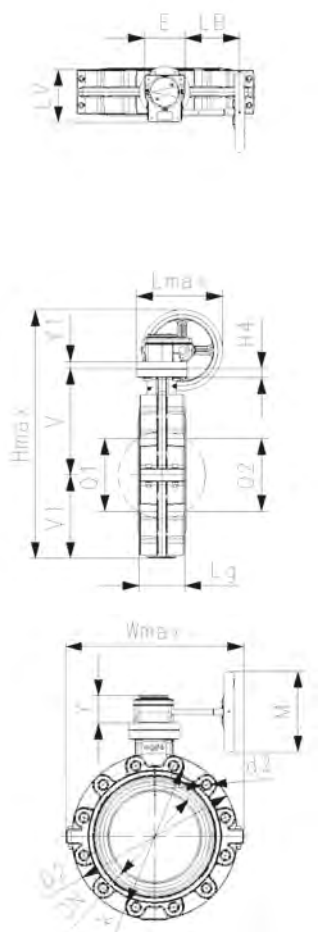
- Housing material: PP-GF30 with SS316 lug-inserts
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	740	167 578 042	3.447	167 578 062	3.447
75	2 1/2	65	10	1500	167 578 043	3.585	167 578 063	3.585
90	3	80	10	2400	167 578 044	3.929	167 578 064	3.929
110	4	100	10	3800	167 578 045	4.834	167 578 065	4.834
140	5	125	10	8600	167 578 046	6.348	167 578 066	6.348
160	6	150	10	11400	167 578 047	8.109	167 578 067	8.109
225	8	200	10	19900	167 578 048	9.353	167 578 068	9.353
280	10	250	8	34000	167 578 049	21.210	167 578 069	21.210
315	12	300	8	50000	167 578 050	27.746	167 578 070	27.746

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	319.4	169.1	263.5	90	133.3	23	78.8	44.7	160	40		M16	125	61.2
75	332.3	169.1	272.0	90	139.9	23	85.1	45.7	180	54	35	M16	145	61.2
90	344.1	169.1	286.0	90	145.6	23	91.2	48.7	195	67	50	M16	160	61.2
110	380.8	169.1	301.0	90	166.0	23	107.5	55.6	226	88	74	M16	180	61.2
140	410.0	169.1	317.0	90	180.0	23	122.7	63.5	258	113	97	M16	210	61.2
160	430.8	169.1	321.0	90	189.0	23	134.5	71.5	284	139	123	M20	240	61.2
225	479.3	169.1	360.0	90	210.5	23	161.5	72.5	341	178	169	M20	295	61.2
280	615.6	212.6	440.0	125	264.4	23	206.9	113.2	412	210	207	M20	350	68.4
315	665.0	212.6	510.0	125	285.2	23	235.5	114.6	482	256	253	M20	400	68.4

d	E	Y1	M	LV	LB
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	80		160	112.3	129.5
75	80		160	112.3	129.5
90	80		160	112.3	129.5
110	80		160	112.3	129.5
140	80		160	112.3	129.5
160	80		160	112.3	129.5
225	80		160	112.3	129.5
280	100	17.0	160	130.0	134.0
315	100	17.0	160	130.0	134.0



PROGEF Standard Lug-style end installation butterfly valve type 578

Bare Shaft

Flange standard metric

Model:

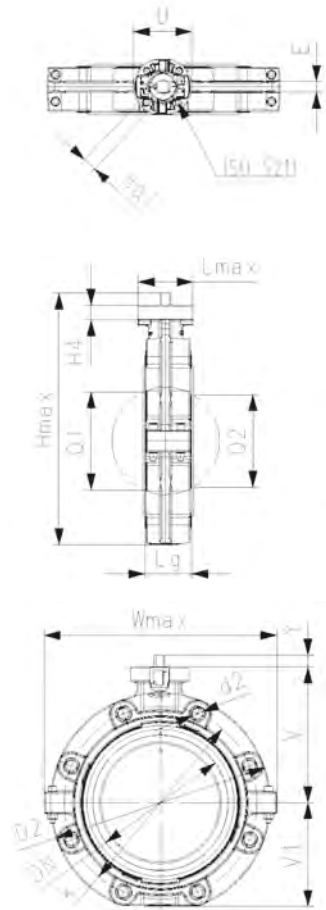
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	740	167 578 802	1.299	167 578 822	1.299
75	2 1/2	65	10	1500	167 578 803	1.456	167 578 823	1.456
90	3	80	10	2400	167 578 804	1.701	167 578 824	1.701
110	4	100	10	3800	167 578 805	2.606	167 578 825	2.606
140	5	125	10	8600	167 578 806	4.120	167 578 826	4.120
160	6	150	10	11400	167 578 807	5.881	167 578 827	5.881
225	8	200	10	19900	167 578 808	7.125	167 578 828	7.125
280	10	250	8	34000	167 578 809	17.880	167 578 829	17.880
315	12	300	8	50000	167 578 810	24.416	167 578 830	24.416

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	da1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	238.3	84.8	159.5	90	133.3	23	78.8	44.7	160	40		M16	125	13.5
75	251.2	84.8	166.1	90	139.9	23	85.1	45.7	180	54	35	M16	145	13.5
90	263.0	84.8	171.8	90	145.6	23	91.2	48.7	195	67	50	M16	160	13.5
110	288.9	84.8	181.4	90	166.0	23	107.5	55.6	226	88	74	M16	180	17.3
140	318.1	84.8	195.4	90	180.0	23	122.7	63.5	258	113	97	M16	210	17.3
160	341.9	84.8	207.4	90	189.0	23	134.5	71.5	284	139	123	M20	240	21.1
225	390.4	84.8	228.9	90	210.5	23	161.5	72.5	341	178	169	M20	295	21.1
280	511.5	125.0	304.6	125	264.4	23	206.9	113.2	412	210	207	M20	350	27.0
315	560.9	125.0	325.4	125	285.2	23	235.5	114.6	482	256	253	M20	400	27.0

Butterfly valves electric type 145



PROGEF Standard Wafer-style intermediate installation butterfly valve type 145
With electric actuator 230V
With manual override
Flange standard metric/ANSI/BS/JIS

Model:

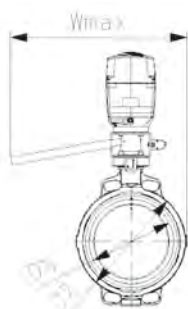
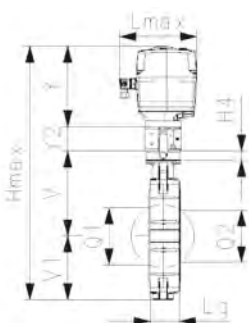
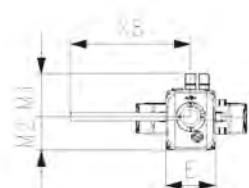
- Material: PP-H
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

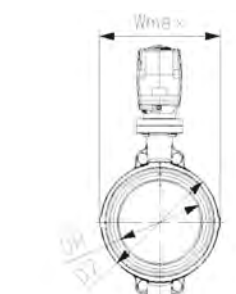
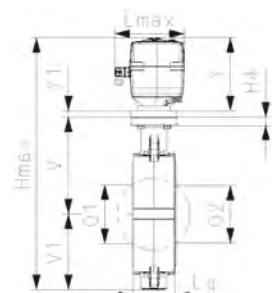
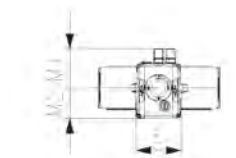
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	PTFE
(mm)	(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code
				(l/min)			
63	2	50	10	740	199 145 322	6.002	199 145 842
75	2 ½	65	10	1500	199 145 323	5.694	199 145 843
90	3	80	10	2400	199 145 324	5.822	199 145 844
110	4	100	10	3800	199 145 325	6.327	199 145 845
140	5	125	10	8600	199 145 326	7.174	199 145 846
160	6	150	10	11400	199 145 327	9.604	199 145 847
225	8	200	10	19900	199 145 328	13.271	199 145 848

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y	E
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	461.4	190	356.7	90	133.3	23	78.8	45	104	40		125	189.3	122.3
75	474.3	190	363.8	90	139.9	23	85.1	46	115	54	35	145	189.3	122.3
90	486.1	190	365.9	90	145.6	23	91.2	49	131	67	50	160	189.3	122.3
110	521.4	190	378.0	90	166.4	23	105.7	56	161	88	74	180	189.3	122.3
140	548.1	190	391.0	90	180.0	23	118.8	64	187	113	97	210	189.3	122.3
160	569.2	190	405.0	90	189.0	23	130.9	72	215	139	123	240	189.3	122.3
225	628.1	190	431.0	90	210.5	23	158.3	73	267	178	169	295	189.3	122.3

d	X8	Y2	M1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	297.5	60	107.3	82.7
75	297.5	60	107.3	82.7
90	297.5	60	107.3	82.7
110	297.5	60	107.3	82.7
140	297.5	60	107.3	82.7
160	297.5	60	107.3	82.7
225	297.5	60	107.3	82.7



PROGEF Standard Wafer-style intermediate installation butterfly valve type 145
With electric actuator 230V
Without manual override
Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<-)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- *For DN350-DN600 electric actuator from **Auma** is equipped, various options available

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

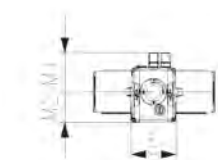
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

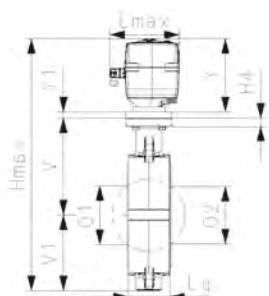
d	Size	DN	PN	kv-value	EPDM	Weight	PTFE	FKM
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	Code
				(l/min)				
63	2	50	10	740	199 145 362	5.264	199 145 802	
75	2 ½	65	10	1500	199 145 363	4.423	199 145 803	
90	3	80	10	2400	199 145 364	4.548	199 145 804	
110	4	100	10	3800	199 145 365	5.034	199 145 805	
140	5	125	10	8600	199 145 366	5.271	199 145 806	
160	6	150	10	11400	199 145 367	6.256	199 145 807	
225	8	200	10	19900	199 145 368	9.656	199 145 808	
280	10	250	6	34000	199 145 369	13.747	199 145 809	
315	12	300	4	50000	199 145 370	16.722	199 145 810	
*	355	14	350	6	90000	46.180	199 145 811	199 140 391
*	400	16	400	6	115000	63.800	199 145 812	199 140 392
*	450	18	450	5	155000	78.800	199 145 813	199 140 393
*	500	20	500	4	204000	96.200	199 145 814	199 140 394
*	630	24	600	4	265000	153.000	199 145 815	199 140 395

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y	
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
63	393.3	190	118.4	90	133.3	23	78.8	45	104	40		125	166.2	
75	406.2	190	132.5	90	139.9	23	85.1	46	115	54	35	145	166.2	
90	426.1	190	136.8	90	145.6	23	91.2	49	131	67	50	160	189.3	
110	461.4	190	161.0	90	166.4	23	105.7	56	161	88	74	180	189.3	
140	488.1	190	187.0	90	180.0	23	118.8	64	187	113	97	210	189.3	
160	509.2	190	215.0	90	189.0	23	130.9	72	215	139	123	240	189.3	
225	568.1	190	267.0	90	210.5	23	158.3	73	267	178	169	295	199.3	
280	685.0	190	329.0	125	262.6	23	206.1	113	329	210	207	350	199.3	
315	729.4	190	380.4	125	284.3	23	228.8	113	379	256	253	400	199.3	
*	355	1036.0	328	535.0	180	410.0	100	268.0	129	535	325	305	460	361.0
*	400	1096.0	328	595.0	180	435.0	100	300.0	169	595	353	350	515	361.0
*	450	1225.0	352	635.0	220	520.0	130	320.0	179	635	393	390	565	385.0
*	500	1285.0	352	700.0	220	550.0	130	350.0	190	700	444	440	620	385.0
*	630	1450.0	360	813.0	220	610.0	130	420.0	209	813	530	527	725	420.0

d	E	Y1	M1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	122.3	15	107.3	82.7
75	122.3	15	107.3	82.7
90	122.3		107.3	82.7
110	122.3		107.3	82.7
140	122.3		107.3	82.7
160	122.3		107.3	82.7
225	122.3		107.3	82.7



	d (mm)	E (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
	280	122.3	17	107.3	82.7
	315	122.3	17	107.3	82.7
*	355	455.0		266.0	189.0
*	400	455.0		266.0	189.0
*	450	455.0		266.0	189.0
*	500	455.0		266.0	189.0
*	630	455.0		266.0	189.0





PROGEF Standard Wafer-style intermediate installation butterfly valve type 145

With electric actuator 24V

With manual override

Flange standard metric/ANSI/BS/JIS

Model:

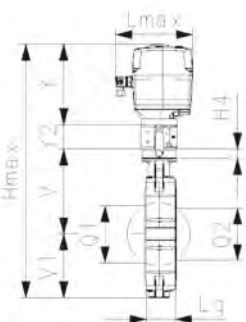
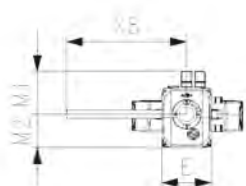
- Material: PP-H
- Voltage 24V AC/DC
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	PTFE
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code
				(l/min)			
63	2	50	10	740	199 145 402	5.603	199 145 862
75	2 1/2	65	10	1500	199 145 403	5.694	199 145 863
90	3	80	10	2400	199 145 404	5.822	199 145 864
110	4	100	10	3800	199 145 405	6.327	199 145 865
140	5	125	10	8600	199 145 406	6.771	199 145 866
160	6	150	10	11400	199 145 407	7.556	199 145 867
225	8	200	10	19900	199 145 408	13.271	199 145 868

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y	E
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	461.4	190	356.7	90	133.3	23	78.8	45	104	40		125	189.3	122.3
75	474.3	190	363.8	90	139.9	23	85.1	46	115	54	35	145	189.3	122.3
90	486.1	190	365.9	90	145.6	23	91.2	49	131	67	50	160	189.3	122.3
110	521.4	190	378.0	90	166.4	23	105.7	56	161	88	74	180	189.3	122.3
140	548.1	190	391.0	90	180.0	23	118.8	64	187	113	97	210	189.3	122.3
160	569.2	190	405.0	90	189.0	23	130.9	72	215	139	123	240	189.3	122.3
225	628.1	190	431.0	90	210.5	23	158.3	73	267	178	169	295	199.3	122.3

d	X8	Y2	M1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	297.5	60	107.3	82.7
75	297.5	60	107.3	82.7
90	297.5	60	107.3	82.7
110	297.5	60	107.3	82.7
140	297.5	60	107.3	82.7
160	297.5	60	107.3	82.7
225	297.5	60	107.3	82.7



PROGEF Standard Wafer-style intermediate installation butterfly valve type 145
With electric actuator 24V
Without manual override
Flange standard metric/ANSI/BS/JIS

Model:

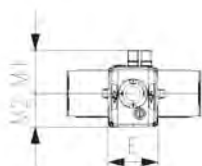
- Material: PP-H
- Voltage 24V AC/DC
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Option:

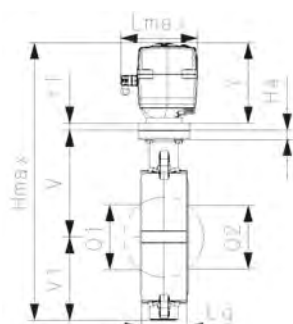
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

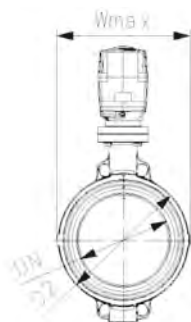
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	PTFE
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code
				(l/min)			
63	2	50	10	740	199 145 442	4.314	199 145 822
75	2 ½	65	10	1500	199 145 443	4.194	199 145 823
90	3	80	10	2400	199 145 444	4.529	199 145 824
110	4	100	10	3800	199 145 445	5.017	199 145 825
140	5	125	10	8600	199 145 446	5.271	199 145 826
160	6	150	10	11400	199 145 447	6.056	199 145 827
225	8	200	10	19900	199 145 448	11.771	199 145 828
280	10	250	6	34000	199 145 449	13.747	199 145 829
315	12	300	4	50000	199 145 450	16.722	199 145 830

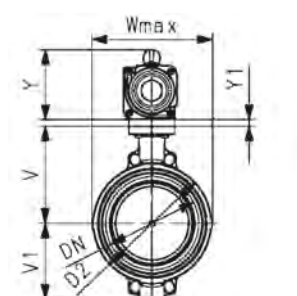
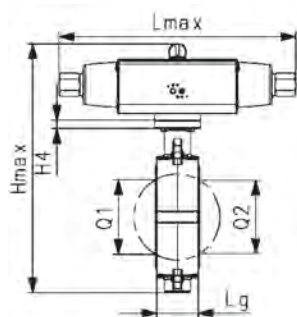
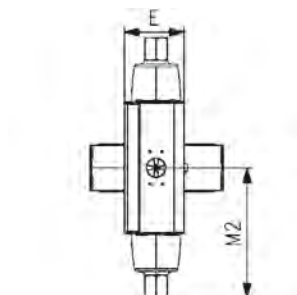


d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y	E
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	393.3	190	118.4	90	133.3	23	78.8	45	104	40		125	166.2	122.3
75	406.2	190	132.5	90	139.9	23	85.1	46	115	54	35	145	166.2	122.3
90	426.1	190	136.8	90	145.6	23	91.2	49	131	67	50	160	189.3	122.3
110	461.4	190	161.0	90	166.4	23	105.7	56	161	88	74	180	189.3	122.3
140	488.1	190	187.0	90	180.0	23	118.8	64	187	113	97	210	189.3	122.3
160	509.2	190	215.0	90	189.0	23	130.9	72	215	139	123	240	189.3	122.3
225	568.1	190	267.0	90	210.5	23	158.3	73	267	178	169	295	199.3	122.3
280	685.0	190	329.0	125	262.6	23	206.1	113	329	210	207	350	199.3	122.3
315	729.4	190	380.4	125	284.3	23	228.8	113	379	256	253	400	199.3	122.3



d	Y1	M1	M2
(mm)	(mm)	(mm)	(mm)
63	15	107.3	82.7
75	15	107.3	82.7
90		107.3	82.7
110		107.3	82.7
140		107.3	82.7
160		107.3	82.7
225		107.3	82.7
280	17	107.3	82.7
315	17	107.3	82.7

Butterfly valves pneumatic type 240



PROGEF Standard Wafer-style intermediate installation butterfly valve type 240
With pneumatic actuator - fail safe to close (FC)
Without manual override
Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Control range 90°<
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- For DN350-DN600 pneumatic actuator supplied by airpower „twintorque“

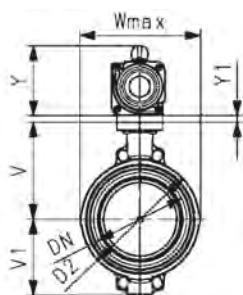
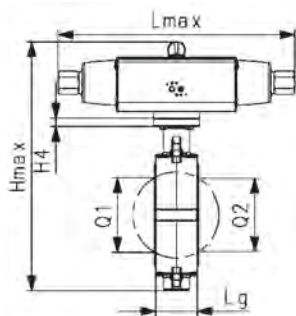
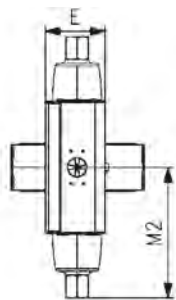
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight	
(mm)	(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)	
				(l/min)					
63	2	50	10	740	199 240 282	2.909	199 240 302	3.147	
75	2 ½	65	10	1500	199 240 283	2.999	199 240 303	3.007	
90	3	80	10	2400	199 240 284	3.787	199 240 304	3.369	
110	4	100	10	3800	199 240 285	4.996	199 240 305	5.079	
140	5	125	10	8600	199 240 286	6.790	199 240 306	6.529	
160	6	150	10	11400	199 240 287	9.533	199 240 307	9.640	
225	8	200	10	19900	199 240 288	13.430	199 240 308	9.951	
280	10	250	8	34000	199 240 289	26.888	199 240 309	26.888	
315	12	300	5	50000	199 240 290	33.459	199 240 310	33.459	
*	355	14	350	6	90000	199 240 291	40.600	199 240 311	40.600
*	400	16	400	6	115000	199 240 292	62.100	199 240 312	62.100
*	450	18	450	5	155000	199 240 293	77.100	199 240 313	77.100
*	500	20	500	4	204000	199 240 294	92.100	199 240 314	92.100
*	630	24	600	4	265000	199 240 295	127.100	199 240 315	127.100

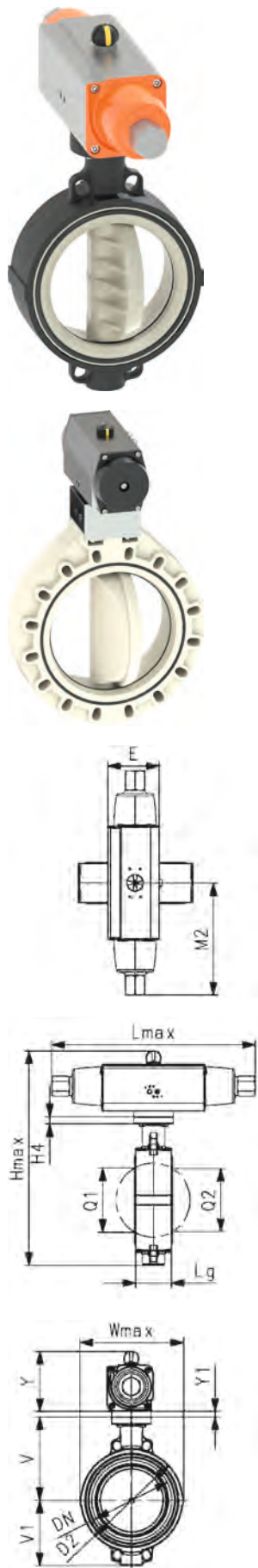
d (mm)	PTFE Code	Weight (kg)
63	199 240 702	3.218
75	199 240 703	3.341
90	199 240 704	3.524
110	199 240 705	5.271
140	199 240 706	7.169
160	199 240 707	9.533
225	199 240 708	13.430
280	199 240 709	26.888
315	199 240 710	33.459
*	199 240 711	40.600
*	199 240 712	62.100
*	199 240 713	77.100
*	199 240 714	92.100
*	199 240 715	127.100

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)
63	325.3	274.4	118.4	90	133.3	23	78.8	45	104	40		125	98.2
75	338.2	274.4	132.5	90	139.9	23	85.1	46	115	54	35	145	98.2
90	362.9	325.2	136.8	90	145.6	23	91.2	49	131	67	50	160	111.1
110	386.9	359.6	161.0	90	166.4	23	105.7	56	161	88	74	180	114.8
140	448.3	418.0	187.0	90	180.0	23	118.8	64	187	113	97	210	149.5
160	473.0	434.0	215.0	90	189.0	23	130.9	72	215	139	123	240	153.1
225	528.8	498.4	267.0	90	210.5	23	158.3	73	267	178	169	295	160.0
280	676.9	646.0	329.0	125	262.6	23	206.1	113	329	210	207	350	190.0
315	741.4	681.0	380.4	125	284.3	23	228.8	113	379	256	253	400	210.1



	d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
*	355	887.0	390.0	535.0	180	410.0	100	268.0	129	535	325	305	460	209.0
*	400	972.0	458.0	595.0	180	435.0	100	300.0	169	595	353	350	515	234.0
*	450	1077.0	458.0	635.0	220	520.0	130	320.0	179	635	393	390	565	234.0
*	500	1173.0	525.0	700.0	220	550.0	130	350.0	190	700	444	440	620	270.0
*	630	1303.0	525.0	813.0	220	610.0	130	420.0	209	813	530	527	725	270.0

	d	E	Y1	M2
	(mm)	(mm)	(mm)	(mm)
	63	70.4	15.0	137.2
	75	70.4	15.0	137.2
	90	83.3	15.0	162.6
	110	87.0		179.8
	140	107.5		209.0
	160	111.1		217.0
	225	118.0		249.2
	280	148.0	18.2	323.0
	315	168.0	18.2	340.5
*	355	153.0		195.0
*	400	176.0		326.0
*	450	176.0		326.0
*	500	206.0		263.0
*	630	206.0		263.0



PROGEF Standard Wafer-style intermediate installation butterfly valve type 240

With pneumatic actuator - fail safe to open (FO)

Without manual override

Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H
- Control range 90°<
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- For DN350-DN600 pneumatic actuator supplied by airpower „twintorque®“

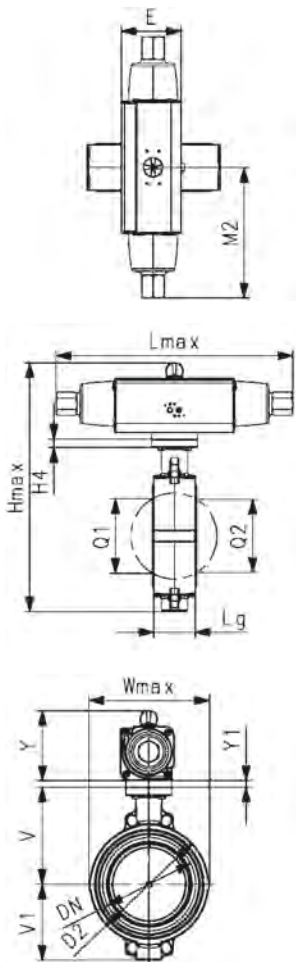
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	740	199 240 322	3.143	199 240 342	3.147
75	2 ½	65	10	1500	199 240 323	3.234	199 240 343	3.239
90	3	80	10	2400	199 240 324	3.362	199 240 344	3.369
110	4	100	10	3800	199 240 325	4.988	199 240 345	5.079
140	5	125	10	8600	199 240 326	6.511	199 240 346	6.529
160	6	150	10	11400	199 240 327	9.617	199 240 347	9.640
225	8	200	10	19900	199 240 328	13.271	199 240 348	13.299
280	10	250	8	34000	199 240 329	30.484	199 240 349	30.484
315	12	300	5	50000	199 240 330	33.459	199 240 350	33.459
*	355	14	350	6	90000	40.600	199 240 351	40.600
*	400	16	400	6	115000	62.100	199 240 352	62.100
*	450	18	450	5	155000	77.100	199 240 353	77.100
*	500	20	500	4	204000	92.100	199 240 354	92.100
*	630	24	600	4	265000	127.100	199 240 355	127.100

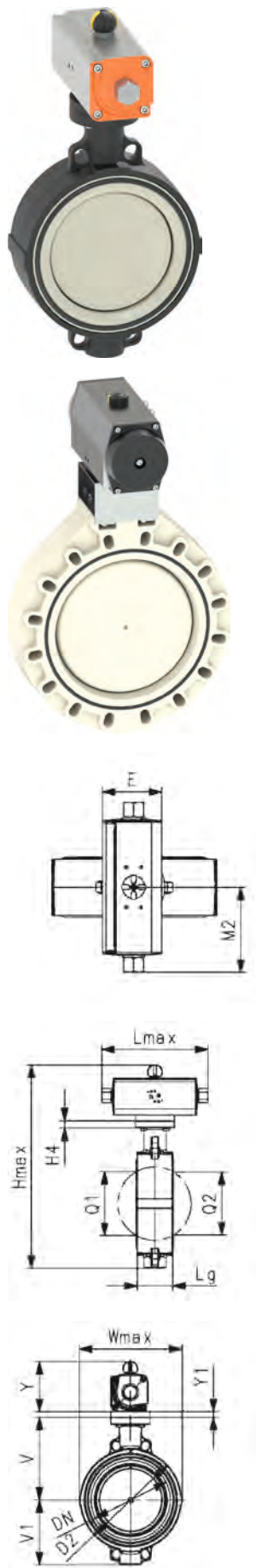
d	PTFE	Weight	
(mm)	Code	(kg)	
63	199 240 722	3.218	
75	199 240 723	3.352	
90	199 240 724	3.531	
110	199 240 725	5.371	
140	199 240 726	5.943	
160	199 240 727	9.617	
225	199 240 728	13.271	
280	199 240 729	30.484	
315	199 240 730	33.459	
*	355	199 240 731	40.600
*	400	199 240 732	3.439
*	450	199 240 733	3.341
*	500	199 240 734	3.524
*	630	199 240 735	5.357

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	325.3	274.4	118.4	90	133.3	23	78.8	45	104	40	125	98.2	
75	338.2	274.4	132.5	90	139.9	23	85.1	46	115	54	145	98.2	
90	362.9	325.2	136.8	90	145.6	23	91.2	49	131	67	160	111.1	
110	386.9	359.6	161.0	90	166.4	23	105.7	56	161	88	180	114.8	
140	448.3	418.0	187.0	90	180.0	23	118.8	64	187	113	210	149.5	
160	473.0	434.0	215.0	90	189.0	23	130.9	72	215	139	240	153.1	
225	528.8	498.4	267.0	90	210.5	23	158.3	73	267	178	295	160.0	
280	676.9	646.0	329.0	125	262.6	23	206.1	113	329	210	207	350	190.0
315	741.4	681.0	380.4	125	284.3	23	228.8	113	379	256	253	400	210.1
*	355	887.0	390.0	180	410.0	100	268.0	129	535	325	305	460	209.0



	d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
*	400	972.0	458.0	595.0	180	435.0	100	300.0	169	595	353	350	515	234.0
*	450	1077.0	458.0	635.0	220	520.0	130	320.0	179	635	393	390	565	234.0
*	500	1173.0	525.0	700.0	220	550.0	130	350.0	190	700	444	440	620	270.0
*	630	1303.0	525.0	813.0	220	610.0	130	420.0	209	813	530	527	725	270.0

	d	E	Y1	M2
	(mm)	(mm)	(mm)	(mm)
	63	70.4	15.0	137.2
	75	70.4	15.0	137.2
	90	83.3	15.0	162.6
	110	87.0		179.8
	140	107.5		209.0
	160	111.1		217.0
	225	118.0		249.2
	280	148.0	18.2	323.0
	315	168.0	18.2	340.5
*	355	153.0		195.0
*	400	176.0		326.0
*	450	176.0		326.0
*	500	206.0		263.0
*	630	206.0		263.0



PROGEF Standard Wafer-style intermediate installation butterfly valve type 240

With pneumatic actuator - double acting (DA)

Without manual override

Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Control range 90°<
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- For DN350-DN600 pneumatic actuator supplied by airpower „twintorque“

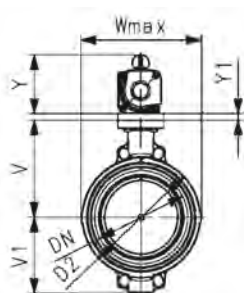
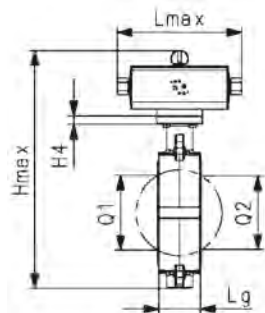
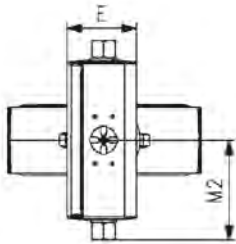
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight	
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)	
				(L/min)					
	63	2	50	10	740	199 240 362	2.227	199 240 382	2.243
	75	2 ½	65	10	1500	199 240 363	2.084	199 240 383	2.089
	90	3	80	10	2400	199 240 364	2.728	199 240 384	2.748
	110	4	100	10	3800	199 240 365	3.542	199 240 385	3.331
	140	5	125	10	8600	199 240 366	3.967	199 240 386	3.779
	160	6	150	10	11400	199 240 367	6.096	199 240 387	6.575
	225	8	200	10	19900	199 240 368	7.271	199 240 388	7.299
	280	10	250	8	34000	199 240 369	18.188	199 240 389	18.188
	315	12	300	5	50000	199 240 370	24.263	199 240 390	24.263
*	355	14	350	6	90000	199 240 371	40.600	199 240 391	40.600
*	400	16	400	6	115000	199 240 372	62.100	199 240 392	62.100
*	450	18	450	5	155000	199 240 373	77.100	199 240 393	77.100
*	500	20	500	4	204000	199 240 374	92.100	199 240 394	92.100
*	630	24	600	4	265000	199 240 375	127.100	199 240 395	127.100

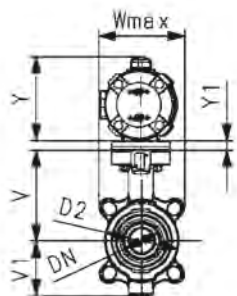
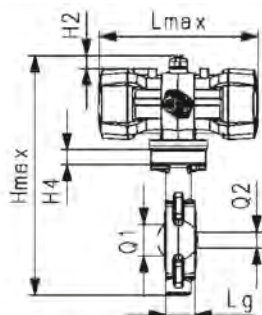
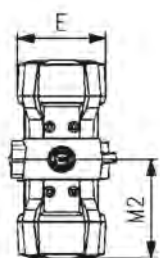
d	PTFE	Weight	
(mm)	Code	(kg)	
63	199 240 742	3.443	
75	199 240 743	3.352	
90	199 240 744	3.531	
110	199 240 745	5.371	
140	199 240 746	7.187	
160	199 240 747	6.096	
225	199 240 748	7.271	
280	199 240 749	18.188	
315	199 240 750	24.263	
*	355	199 240 751	40.600
*	400	199 240 752	5.184
*	450	199 240 753	2.191
*	500	199 240 754	2.884
*	630	199 240 755	3.609

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	319.4	196.2	118.4	90	133.3	23	78.8	45	104	40		125	92.3
75	332.3	196.2	132.5	90	139.9	23	85.1	46	115	54	35	145	92.3
90	350.0	205.6	136.8	90	145.6	23	91.2	49	131	67	50	160	98.2
110	383.3	242.0	161.0	90	166.4	23	105.7	56	161	88	74	180	111.2
140	410.0	242.0	187.0	90	180.0	23	118.8	64	187	113	97	210	111.2
160	469.4	290.0	215.0	90	189.0	23	130.9	72	215	139	123	240	149.5
225	518.3	290.0	267.0	90	210.5	23	158.3	73	267	178	169	295	149.5
280	546.9	339.6	329.0	125	262.6	23	206.1	113	329	210	207	350	160.0
315	691.3	339.6	380.4	125	284.3	23	228.8	113	379	256	253	400	160.0
*	355	887.0	390.0	180	410.0	100	268.0	129	535	325	305	460	209.0



	d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
*	400	972.0	458.0	595.0	180	435.0	100	300.0	169	595	353	350	515	234.0
*	450	1077.0	458.0	635.0	220	520.0	130	320.0	179	635	393	390	565	234.0
*	500	1173.0	525.0	700.0	220	550.0	130	350.0	190	700	444	440	620	270.0
*	630	1303.0	525.0	813.0	220	610.0	130	420.0	209	813	530	527	725	270.0

	d	E	Y1	M2
	(mm)	(mm)	(mm)	(mm)
	63	64.5	15.0	98.1
	75	64.5	15.0	98.1
	90	70.4	15.0	102.8
	110	83.3		121.0
	140	83.3		121.0
	160	107.5		145.0
	225	107.5		145.0
	280	118.0	18.2	169.8
	315	118.0	18.2	169.8
*	355	153.0		195.0
*	400	176.0		326.0
*	450	176.0		326.0
*	500	206.0		263.0
*	630	206.0		263.0



Wafer-style intermediate installation butterfly valve type 240 PVC-U FC (Fail safe to close) Flange standard metric/ANSI/BS/JIS

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	199 240 602	2.976	199 240 622	3.222
75	2 ½	65	10	199 240 603	3.086	199 240 623	3.075
90	3	80	10	199 240 604	3.486	199 240 624	3.938
110	4	100	10	199 240 605	5.224	199 240 625	5.263
140	5	125	10	199 240 606	7.127	199 240 626	6.884

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	245.5	121.2	90	133.3	23	78.8	45	104	40		125	111	119.5
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	160	131	141.5
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	122.75
75	15	122.75
90	15	171.50
110		171.50
140		171.50



Wafer-style intermediate installation butterfly valve type 240 PVC-U
FO (Fail safe to open)
Flange standard metric/ANSI/BS/JIS

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

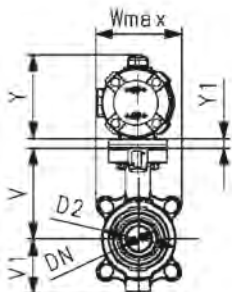
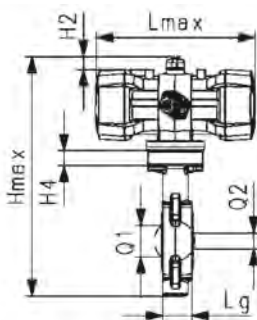
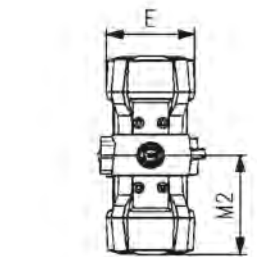
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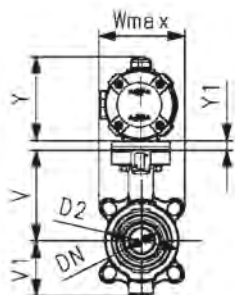
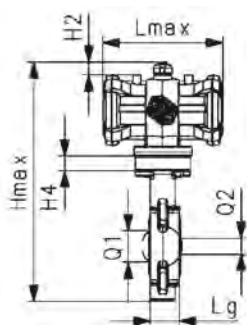
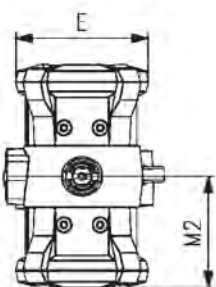
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	199 240 632	3.218	199 240 132	3.222
75	2 ½	65	199 240 633	3.321	199 240 133	3.326
90	3	80	199 240 634	3.920	199 240 134	3.493
110	4	100	199 240 635	5.219	199 240 135	5.266
140	5	125	199 240 636	6.866	199 240 136	6.884

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	245.5	121.2	90	133.3	23	78.8	45	104	40		125	111	119.5
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	160	131	141.5
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	122.75
75	15	122.75
90	15	171.50
110		171.50
140		171.50





Wafer-style intermediate installation butterfly valve type 240 PVC-U DA (Double acting) Flange standard metric/ANSI/BS/JIS

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according to VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

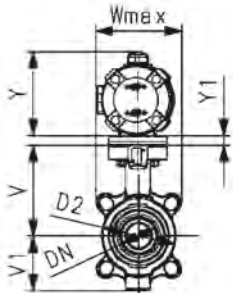
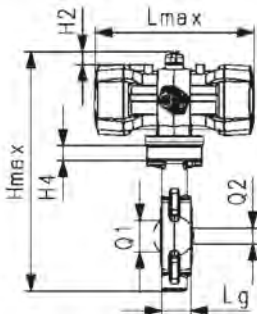
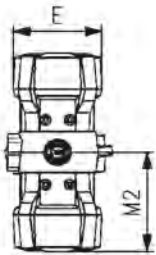
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	199 240 652	2.936	199 240 172	2.072
75	2 ½	65	199 240 653	2.402	199 240 173	2.176
90	3	80	199 240 654	3.330	199 240 174	2.824
110	4	100	199 240 655	3.765	199 240 175	3.563
140	5	125	199 240 656	4.341	199 240 176	4.384

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	183.5	121.2	90	133.3	23	78.8	45	104	40		125	111	119.5
75	351.0	183.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	362.8	183.5	136.8	90	145.6	23	91.2	49	131	67	50	160	111	119.5
110	403.1	261.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	261.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	91.75
75	15	91.75
90	15	91.75
110		130.50
140		130.50



Wafer-style intermediate installation butterfly valve type 240 PVC-C
FC (Fail safe to close)
Flange standard metric/ANSI/BS/JIS

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	199 240 992	3.218	199 240 982	3.218
75	2 ½	65	199 240 993	3.341	199 240 983	3.352
90	3	80	199 240 994	3.524	199 240 984	3.531
110	4	100	199 240 995	5.271	199 240 985	5.371
140	5	125	199 240 996	7.169	199 240 986	5.943

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	338.1	245.5	121.2	90	133.3	23	78.8	45	104	40		111	119.5	15
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	111	119.5	15
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	131	141.5	15
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	131	141.5	
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	131	141.5	

d (mm)	M2 (mm)
63	122.75
75	122.75
90	171.50
110	171.50
140	171.50



Wafer-style intermediate installation butterfly valve type 240 PVC-C
DA (Double acting)
Flange standard metric/ANSI/BS/JIS

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

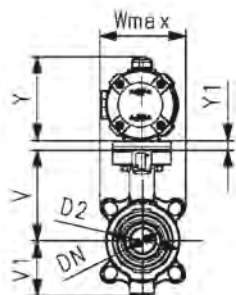
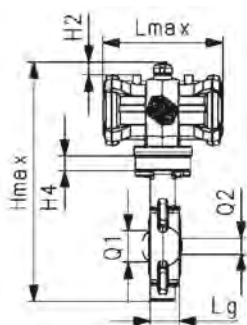
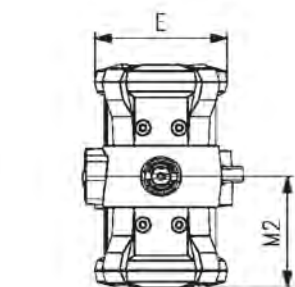
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	Code	(kg)	Code	(kg)
63	2	50	199 240 032	5.184	199 240 762	2.293
75	2 ½	65	199 240 033	2.191	199 240 763	2.202
90	3	80	199 240 034	2.884	199 240 764	2.862
110	4	100	199 240 035	3.609	199 240 765	3.623
140	5	125	199 240 036	4.419	199 240 766	4.500

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y	E
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	183.5	121.2	90	133.3	23	78.8	45	104	40		125	111	119.5
75	351.0	183.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	362.8	183.5	136.8	90	145.6	23	91.2	49	131	67	50	160	111	119.5
110	403.1	261.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	261.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d	Y1	M2
(mm)	(mm)	(mm)
63	15	91.75
75	15	91.75
90	15	91.75
110		130.50
140		130.50





Wafer-style intermediate installation butterfly valve type 240 PVC-C
FO (Fail safe to open)
Flange standard metric/ANSI/BS/JIS

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

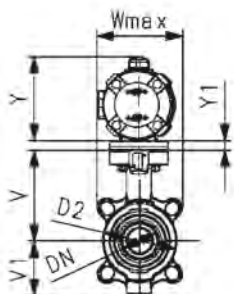
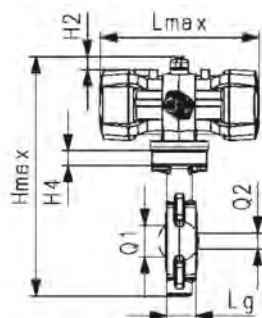
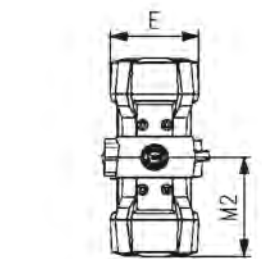
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	199 240 142	3.439	199 240 152	3.443
75	2 ½	65	199 240 143	3.341	199 240 153	3.352
90	3	80	199 240 144	3.524	199 240 154	3.531
110	4	100	199 240 145	5.357	199 240 155	5.371
140	5	125	199 240 146	7.169	199 240 156	7.187

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	245.5	121.2	90	133.3	23	78.8	45	104	40		125	111	119.5
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	160	131	141.5
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	122.75
75	15	122.75
90	15	171.50
110		171.50
140		171.50





Wafer-style intermediate installation butterfly valve type 240 ABS

FC (Fail safe to close)

Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according to VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

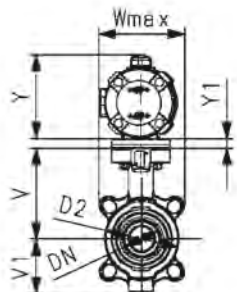
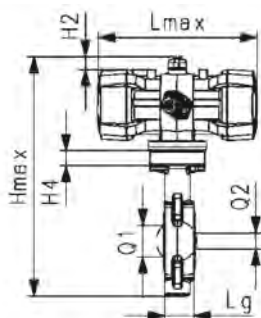
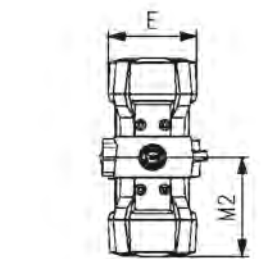
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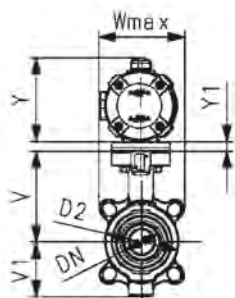
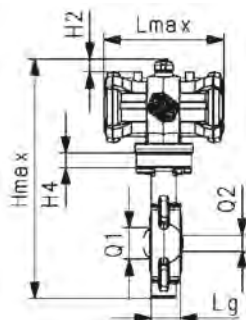
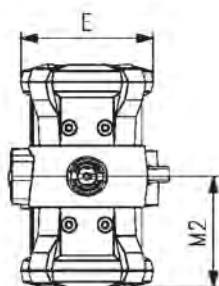
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	EPDM Code	Weight (kg)
63	2	50	199 240 920	3.371
75	2 1/2	65	199 240 921	3.100
90	3	80	199 240 922	3.399
110	4	100	199 240 923	5.133
140	5	125	199 240 924	6.826

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40		125	111	119.5
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	160	131	141.5
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	122.75
75	15	122.75
90	15	171.50
110		171.50
140		171.50





Wafer-style intermediate installation butterfly valve type 240 ABS

DA (Double acting)

Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

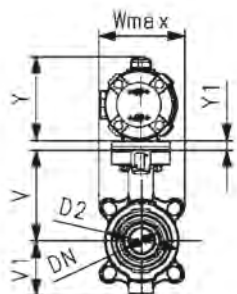
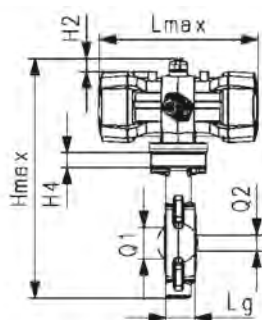
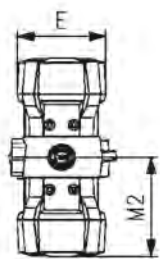
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	EPDM Code	Weight (kg)
63	2	50	199 240 072	2.221
75	2 ½	65	199 240 073	2.317
90	3	80	199 240 074	2.730
110	4	100	199 240 075	3.385
140	5	125	199 240 076	4.076

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	183.5	118.4	90	133.3	23	78.8	45	104	40	0	125	111	119.5
75	351.0	183.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	362.8	183.5	136.8	90	145.6	23	91.2	49	131	67	50	160	111	119.5
110	403.1	261.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	261.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	91.75
75	15	91.75
90	15	91.75
110		130.50
140		130.50



Wafer-style intermediate installation butterfly valve type 240 ABS

FO (Fail safe to open)

Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	EPDM Code	Weight (kg)
63	2	50	199 240 930	3.371
75	2 ½	65	199 240 931	3.467
90	3	80	199 240 932	3.399
110	4	100	199 240 933	5.133
140	5	125	199 240 934	6.826

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40		125	111	119.5
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	160	131	141.5
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	122.75
75	15	122.75
90	15	171.50
110		171.50
140		171.50



SYGEF Standard Wafer-style intermediate installation butterfly valve type 240
FC (Fail safe to close)
Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

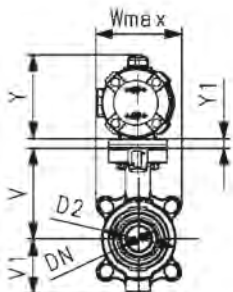
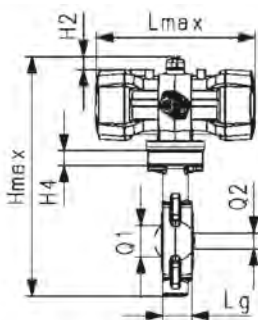
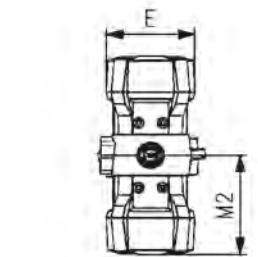
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	FKM Code	Weight (kg)
63	2	50	199 240 925	3.758
75	2 ½	65	199 240 926	3.173
90	3	80	199 240 927	3.550
110	4	100	199 240 928	5.439
140	5	125	199 240 929	6.997

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40	0	125	111	119.5
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	160	131	141.5
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	122.75
75	15	122.75
90	15	171.50
110		171.50
140		171.50





SYGEF Standard Wafer-style, intermediate installation butterfly valve type 240
DA (Double acting)
Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

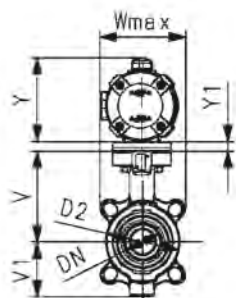
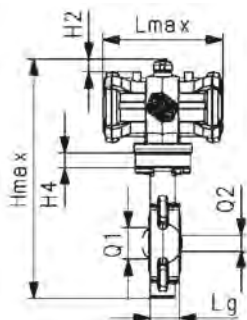
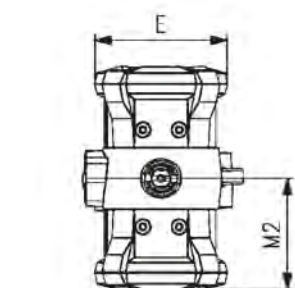
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	FKM Code	Weight (kg)
63	2	50	199 240 122	2.368
75	2 ½	65	199 240 123	2.488
90	3	80	199 240 124	2.970
110	4	100	199 240 125	3.987
140	5	125	199 240 126	4.247

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	183.5	118.4	90	133.3	23	78.8	45	104	40	0	125	111.0	119.5
75	351.0	183.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111.0	119.5
90	362.8	183.5	136.8	90	145.6	23	91.2	49	131	67	50	160	111.0	119.5
110	403.1	261.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131.0	141.5
140	429.8	261.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131.0	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	91.75
75	15	91.75
90	15	91.75
110		130.50
140		130.50





SYGEF Standard Wafer-style intermediate installation butterfly valve type 240
FO (Fail safe to open)
Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

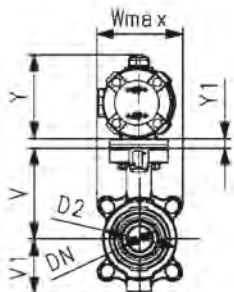
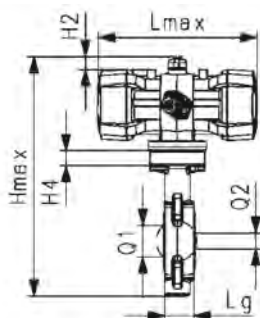
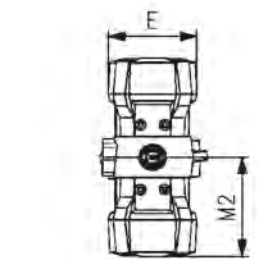
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	FKM Code	Weight (kg)
63	2	50	199 240 935	3.258
75	2 ½	65	199 240 936	3.370
90	3	80	199 240 937	3.550
110	4	100	199 240 938	5.422
140	5	125	199 240 939	6.997

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40		125	111	119.5
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	160	131	141.5
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	122.75
75	15	122.75
90	15	171.50
110		171.50
140		171.50





PROGEF Standard Lug-style end installation butterfly valve type 146
With electric actuator 230V
Without manual override
Flange standard metric

Model:

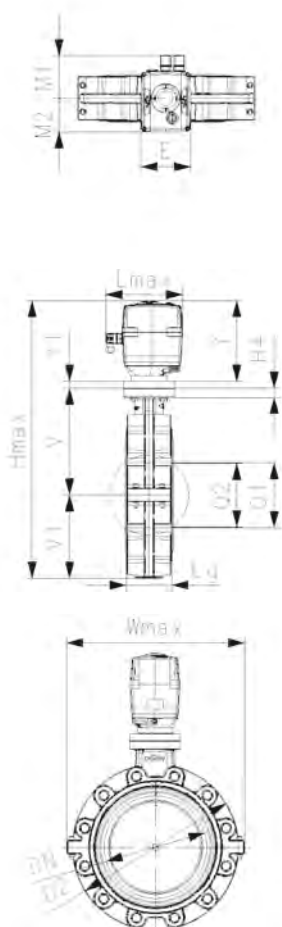
- Material: PP-H
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE Code
63	2	50	10	740	199 146 362	4.299	199 146 802
75	2 ½	65	10	1500	199 146 363	4.456	199 146 803
90	3	80	10	2400	199 146 364	4.701	199 146 804
110	4	100	10	3800	199 146 365	5.606	199 146 805
140	5	125	10	8600	199 146 366	7.120	199 146 806
160	6	150	10	11400	199 146 367	8.881	199 146 807
225	8	200	10	19900	199 146 368	13.625	199 146 808
280	10	250	6	34000	199 146 369	24.385	
315	12	300	4	50000	199 146 370	30.916	

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2 (mm)	k (mm)	Y (mm)
63	378.3	190	165	90	133.3	23	78.8	44.7	160	40		M16	125	166.2
75	391.2	190	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	166.2
90	426.1	190	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	189.3
110	462.8	190	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	189.3
140	492.0	190	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	189.3
160	522.8	190	300	90	189.0	23	134.5	71.5	284	139	123	M20	240	199.3
225	571.3	190	360	90	210.5	23	161.5	72.6	341	178	169	M20	295	199.3
280	670.6	190	440	125	264.4	23	206.9	113.2	412	210	207	M20	350	199.3
315	720.0	190	510	125	285.2	23	235.5	114.6	482	256	253	M20	400	199.3

d (mm)	E (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
63	122.3		107.3	82.7
75	122.3		107.3	82.7
90	122.3		107.3	82.7
110	122.3		107.3	82.7
140	122.3		107.3	82.7
160	122.3		107.3	82.7
225	122.3		107.3	82.7
280	122.3	17	107.3	82.7
315	122.3	17	107.3	82.7

Butterfly valves pneumatic type 243



PROGEF Standard Lug-style end installation butterfly valve type 243

With pneumatic actuator - fail safe to close (FC)

Without manual override

Flange standard metric

Model:

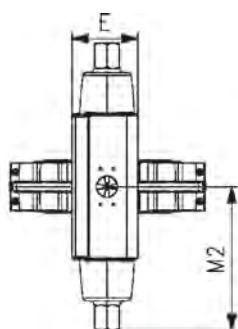
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

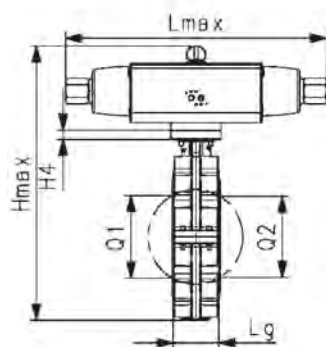
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

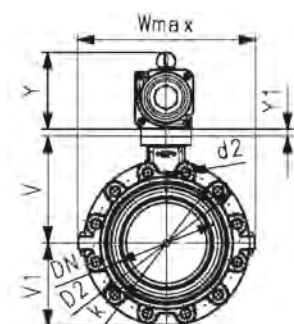
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	740	199 243 282	3.499	199 243 302	3.499
75	2 1/2	65	10	1500	199 243 283	3.656	199 243 303	3.656
90	3	80	10	2400	199 243 284	4.692	199 243 304	4.692
110	4	100	10	3800	199 243 285	6.406	199 243 305	6.406
140	5	125	10	8600	199 243 286	9.222	199 243 306	9.222
160	6	150	10	11400	199 243 287	12.902	199 243 307	12.902
225	8	200	10	19900	199 243 288	16.691	199 243 308	16.691
280	10	250	8	34000	199 243 289	33.880	199 243 309	33.880
315	12	300	5	50000	199 243 290	43.985	199 243 310	43.985



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	328.1	274.4	165	90	133.3	23	78.8	44.7	160	40		M16	125	98.2
75	341.0	274.4	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	98.2
90	365.7	325.2	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111.1
110	388.3	359.6	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	114.8
140	452.2	418.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	149.5
160	476.6	434.0	280	90	189.0	23	134.5	71.5	284	139	123	M20	240	153.1
225	532.0	498.4	360	90	210.5	23	161.5	72.5	341	178	169	M20	295	160.0
280	679.5	646.0	440	125	264.4	23	206.9	113.2	412	210	207	M20	350	190.0
315	749.0	681.0	510	125	285.2	23	235.5	114.6	482	256	253	M20	400	210.1



d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	70.4	15.0	137.2
75	70.4	15.0	137.2
90	83.3	15.0	162.6
110	87.0		179.8
140	107.5		209.0
160	111.1		217.0
225	118.0		249.2
280	148.0	18.2	323.0
315	168.0	18.2	340.5



PROGEF Standard Lug-style end installation butterfly valve type 243

With pneumatic actuator - fail safe to open (FO)

Without manual override

Flange standard metric

Model:

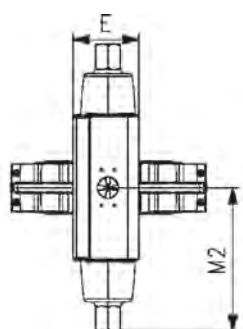
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

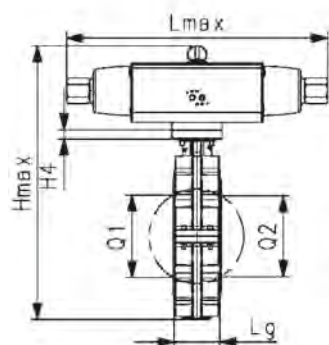
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

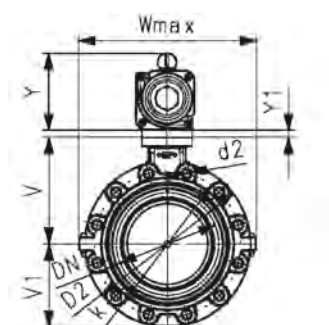
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	740	199 243 322	3.499	199 243 342	3.499
75	2 ½	65	10	1500	199 243 323	3.656	199 243 343	3.656
90	3	80	10	2400	199 243 324	4.692	199 243 344	4.692
110	4	100	10	3800	199 243 325	6.406	199 243 345	6.406
140	5	125	10	8600	199 243 326	9.222	199 243 346	9.222
160	6	150	10	11400	199 243 327	12.902	199 243 347	12.902
225	8	200	10	19900	199 243 328	16.691	199 243 348	16.691
280	10	250	8	34000	199 243 329	33.880	199 243 349	33.880
315	12	300	5	50000	199 243 330	43.985	199 243 350	43.985



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	328.1	274.4	165	90	133.3	23	78.8	44.7	160	40		M16	125	98.2
75	341.0	274.4	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	98.2
90	365.7	325.2	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111.1
110	388.3	359.6	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	114.8
140	452.2	418.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	149.5
160	476.6	434.0	280	90	189.0	23	134.5	71.5	284	139	123	M20	240	153.1
225	532.0	498.4	360	90	210.5	23	161.5	72.5	341	178	169	M20	295	160.0
280	679.5	646.0	440	125	264.4	23	206.9	113.2	412	210	207	M20	350	190.0
315	749.0	681.0	510	125	285.2	23	235.5	114.6	482	256	253	M20	400	210.1



d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	70.4	15.0	137.2
75	70.4	15.0	137.2
90	83.3	15.0	162.6
110	87.0		179.8
140	107.5		209.0
160	111.1		217.0
225	118.0		249.2
280	148.0	18.2	323.0
315	168.0	18.2	340.5



PROGEF Standard Lug-style end installation butterfly valve type 243
With pneumatic actuator - double acting (DA)
Without manual override
Flange standard metric

Model:

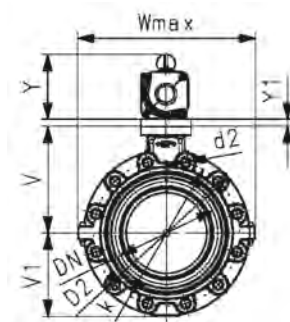
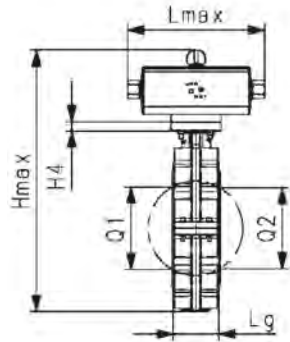
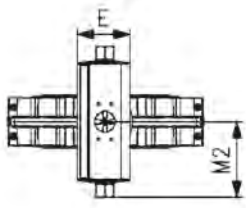
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	740	199 243 362	3.499	199 243 382	3.499
75	2 1/2	65	10	1500	199 243 363	3.656	199 243 383	3.656
90	3	80	10	2400	199 243 364	4.692	199 243 384	4.692
110	4	100	10	3800	199 243 365	6.406	199 243 385	6.406
140	5	125	10	8600	199 243 366	9.222	199 243 386	9.222
160	6	150	10	11400	199 243 367	12.902	199 243 387	12.902
225	8	200	10	19900	199 243 368	16.691	199 243 388	16.691
280	10	250	8	34000	199 243 369	33.880	199 243 389	33.880
315	12	300	5	50000	199 243 370	43.985	199 243 390	43.985

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	319.4	196.2	165	90	133.3	23	78.8	44.7	160	40		M16	125	92.3
75	332.3	196.2	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	92.3
90	352.8	205.6	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	98.2
110	384.7	242.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	111.2
140	413.9	242.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	111.2
160	473.0	290.0	280	90	189.0	23	134.5	71.5	284	139	123	M20	240	149.5
225	521.5	290.0	360	90	210.5	23	161.5	72.5	341	178	169	M20	295	149.5
280	649.5	339.6	440	125	264.4	23	206.9	113.2	412	210	207	M20	350	160.0
315	698.9	339.6	510	125	285.2	23	235.5	114.6	482	256	253	M20	400	160.0

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	64.5	15.0	98.1
75	64.5	15.0	98.1
90	70.4	15.0	102.8
110	83.3		121.0
140	83.3		121.0
160	107.5		145.0
225	107.5		145.0
280	118.0	18.2	169.8
315	118.0	18.2	169.8



PROGEF Standard Wafer-style intermediate installation butterfly valve type 240
DA (Double acting)
Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according to VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

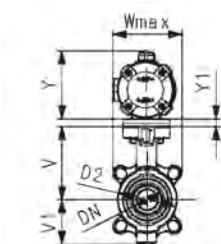
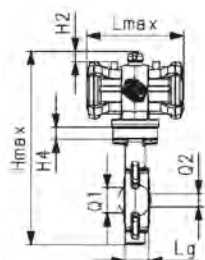
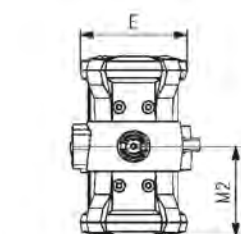
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	199 240 852	2.227	199 240 862	2.243
75	2 ½	65	199 240 853	2.084	199 240 863	2.089
90	3	80	199 240 854	2.728	199 240 864	2.748
110	4	100	199 240 855	3.542	199 240 865	3.331
140	5	125	199 240 856	3.967	199 240 866	3.779

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	183.5	118.4	90	133.3	23	78.8	45	104	40	0	125	111	119.5
75	351.0	183.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	362.8	183.5	136.8	90	145.6	23	91.2	49	131	67	50	160	111	119.5
110	403.1	261.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	261.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	91.75
75	15	91.75
90	15	91.75
110		130.50
140		130.50





PROGEF Standard Wafer-style intermediate installation butterfly valve type 240
FC (Fail safe to close)
Flange standard metric

Model:

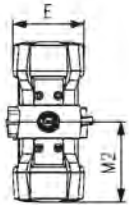
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according to VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

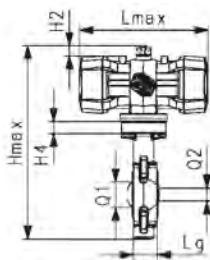
- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

Note:

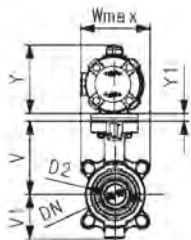
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	Code	(kg)	Code	(kg)
63	2	50	199 240 802	2.909	199 240 822	3.147
75	2 ½	65	199 240 803	2.999	199 240 823	3.007
90	3	80	199 240 804	3.787	199 240 824	3.369
110	4	100	199 240 805	4.996	199 240 825	5.079
140	5	125	199 240 806	6.790	199 240 826	6.529



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y	E
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40	0	125	111	119.5
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	160	131	141.5
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5



d	Y1	M2
(mm)	(mm)	(mm)
63	15	122.75
75	15	122.75
90	15	171.50
110		171.50
140		171.50



PROGEF Standard Wafer-style intermediate installation butterfly valve type 240

FO (Fail safe to open)

Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

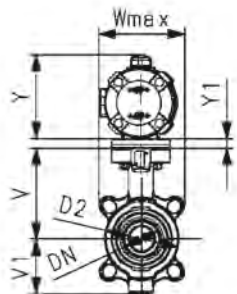
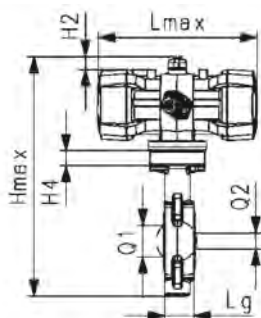
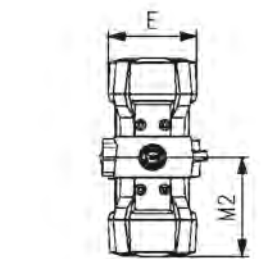
Note:

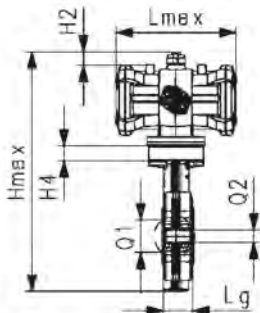
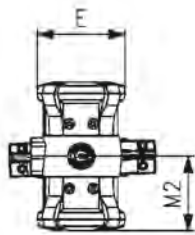
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	199 240 832	3.143	199 240 842	3.147
75	2 ½	65	199 240 833	3.234	199 240 843	3.239
90	3	80	199 240 834	3.362	199 240 844	3.369
110	4	100	199 240 835	4.988	199 240 845	5.079
140	5	125	199 240 836	6.511	199 240 846	6.529

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40		125	111	119.5
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	160	131	141.5
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	122.75
75	15	122.75
90	15	171.50
110		171.50
140		171.50





PROGEF Standard Lug-style, end installation butterfly valve type 243
DA (Double acting)
Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 852	3.499	199 243 862	3.499
75	2 1/2	65	10	199 243 853	3.656	199 243 863	3.656
90	3	80	10	199 243 854	4.692	199 243 864	4.692
110	4	100	10	199 243 855	6.406	199 243 865	6.406
140	5	125	10	199 243 856	9.222	199 243 866	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50



Lug-style end installation butterfly valve type 243 ABS

DA (Double acting)

Flange standard metric

Model:

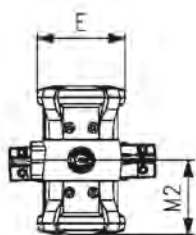
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

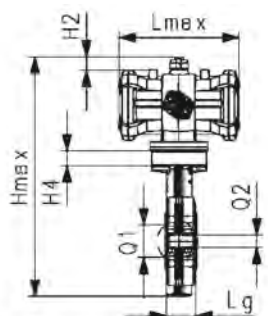
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

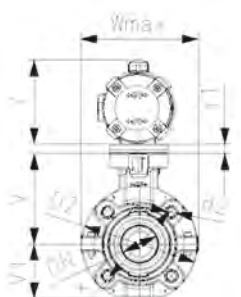


d	Size	DN	PN	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 243 900	3.499
75	2 ½	65	10	199 243 901	3.656
90	3	80	10	199 243 902	4.692
110	4	100	10	199 243 903	6.406
140	5	125	10	199 243 904	9.222



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50





SYGEF Standard Lug-style end installation butterfly valve type 243
DA (Double acting)
Flange standard metric

Model:

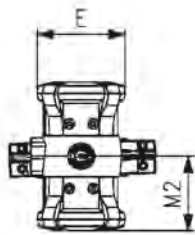
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

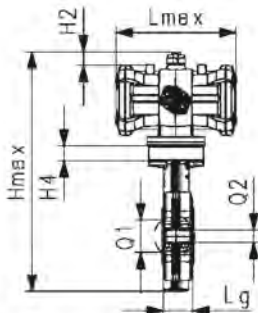
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

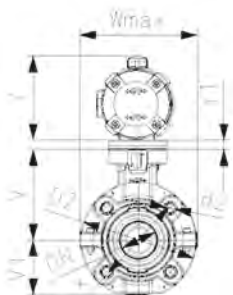


d	Size	DN	PN	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 243 905	3.499
75	2 1/2	65	10	199 243 906	3.656
90	3	80	10	199 243 907	4.692
110	4	100	10	199 243 908	6.406
140	5	125	10	199 243 909	9.222



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50





Lug-style end installation butterfly valve Type 243 PVC-U

FC (Fail safe to close)

Flange standard metric

Model:

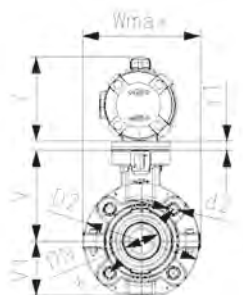
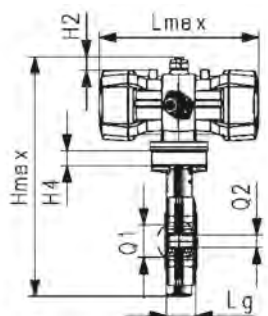
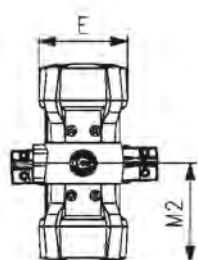
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 602	3.499	199 243 622	3.499
75	2 ½	65	10	199 243 603	3.656	199 243 623	3.656
90	3	80	10	199 243 604	4.692	199 243 624	4.692
110	4	100	10	199 243 605	6.406	199 243 625	6.406
140	5	125	10	199 243 606	9.222	199 243 626	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 PVC-C
FC (Fail safe to close)
Flange standard metric

Model:

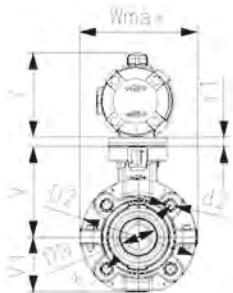
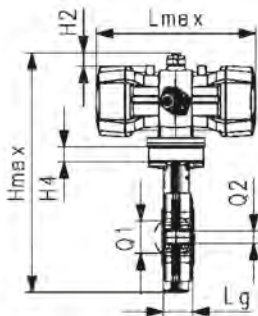
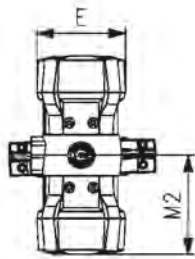
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 712	3.499	199 243 722	3.499
75	2 1/2	65	10	199 243 713	3.656	199 243 723	3.656
90	3	80	10	199 243 714	4.692	199 243 724	4.692
110	4	100	10	199 243 715	6.406	199 243 725	6.406
140	5	125	10	199 243 716	9.222	199 243 726	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



PROGEF Standard Lug-style end installation butterfly valve type 243

FC (Fail safe to close)

Flange standard metric

Model:

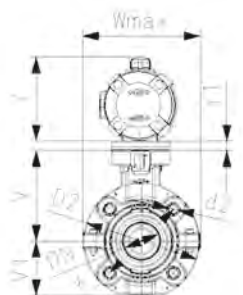
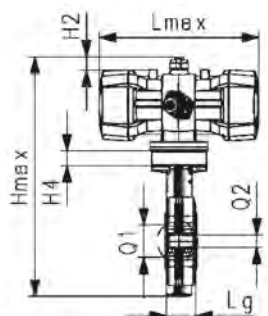
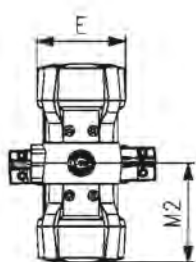
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 802	3.499	199 243 822	3.499
75	2 ½	65	10	199 243 803	3.656	199 243 823	3.656
90	3	80	10	199 243 804	4.692	199 243 824	4.692
110	4	100	10	199 243 805	6.406	199 243 825	6.406
140	5	125	10	199 243 806	9.222	199 243 826	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.79
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 ABS
FC (Fail safe to close)
Flange standard metric

Model:

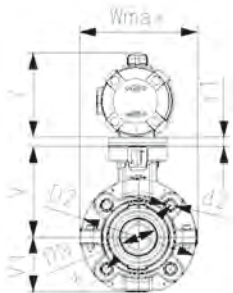
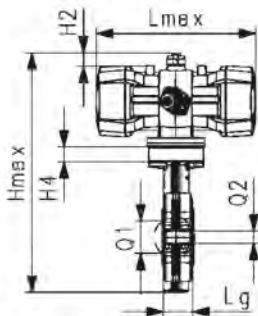
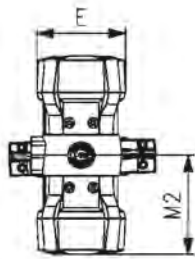
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 243 920	3.499
75	2 1/2	65	10	199 243 921	3.656
90	3	80	10	199 243 922	4.692
110	4	100	10	199 243 923	6.406
140	5	125	10	199 243 924	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



SYGEF Standard Lug-style end installation butterfly valve type 243

FC (Fail safe to close)

Flange standard metric

Model:

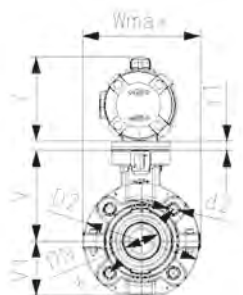
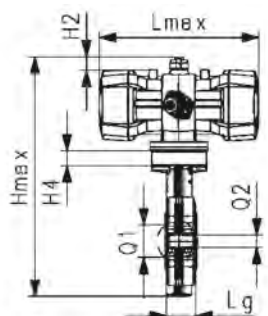
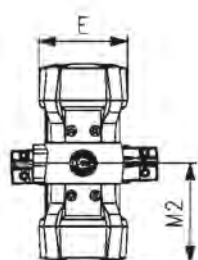
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 243 925	3.499
75	2 ½	65	10	199 243 926	3.656
90	3	80	10	199 243 927	4.692
110	4	100	10	199 243 928	6.406
140	5	125	10	199 243 929	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve Type 243 PVC-U
FO (Fail safe to open)
Flange standard metric

Model:

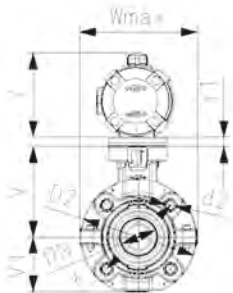
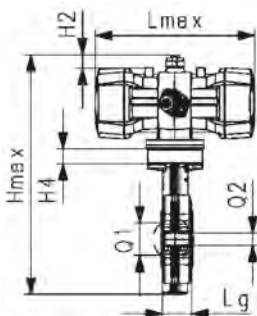
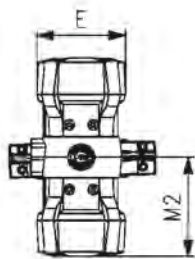
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 632	3.499	199 243 642	3.499
75	2 ½	65	10	199 243 633	3.656	199 243 643	3.656
90	3	80	10	199 243 634	4.692	199 243 644	4.692
110	4	100	10	199 243 635	6.406	199 243 645	6.406
140	5	125	10	199 243 636	9.222	199 243 646	9.222

d	Hmax	Lmax	Wmax	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y	E
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	133.3	23	78.8	44.7	160	40		M16	125	111	119.5
75	351.0	245.5	182	139.9	23	85.1	45.7	180	54	35	M16	145	111	119.5
90	367.8	343.0	210	145.6	23	91.2	48.7	195	67	50	M16	160	131	141.5
110	404.5	343.0	240	166.0	23	107.5	55.6	226	88	74	M16	180	131	141.5
140	433.7	343.0	272	180.0	23	122.7	63.5	258	113	97	M16	210	131	141.5

d	Y1	M2
(mm)	(mm)	(mm)
63	15	122.8
75	15	122.8
90	15	171.5
110		171.5
140		171.5



Lug-style end installation butterfly valve type 243 PVC-C

FO (Fail safe to open)

Flange standard metric

Model:

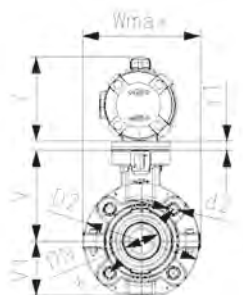
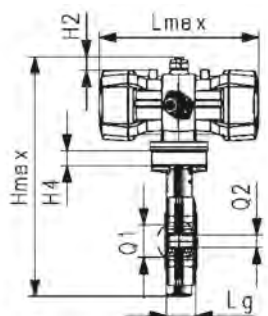
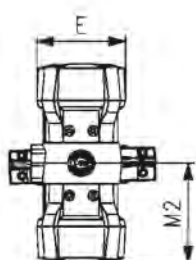
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 732	3.499	199 243 742	3.499
75	2 ½	65	10	199 243 733	3.656	199 243 743	3.656
90	3	80	10	199 243 734	4.692	199 243 744	4.692
110	4	100	10	199 243 735	6.406	199 243 745	6.406
140	5	125	10	199 243 736	9.222	199 243 746	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



PROGEF Standard Lug-style end installation butterfly valve type 243

FO (Fail safe to open)

Flange standard metric

Model:

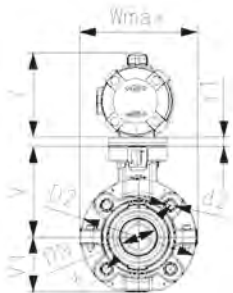
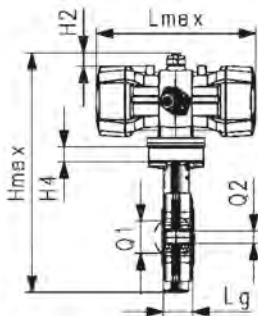
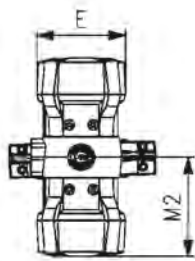
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 832	3.499	199 243 842	3.499
75	2 1/2	65	10	199 243 833	3.656	199 243 843	3.656
90	3	80	10	199 243 834	4.692	199 243 844	4.692
110	4	100	10	199 243 835	6.406	199 243 845	6.406
140	5	125	10	199 243 836	9.222	199 243 846	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF

With pneumatic actuator - fail safe to close (FC)

Wafer style metric/ANSI/BS/JIS

Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

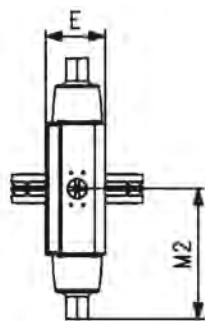
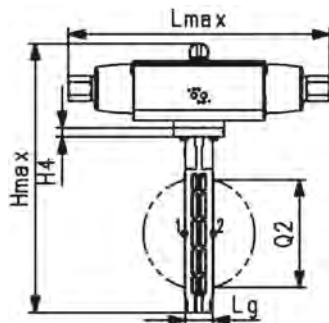
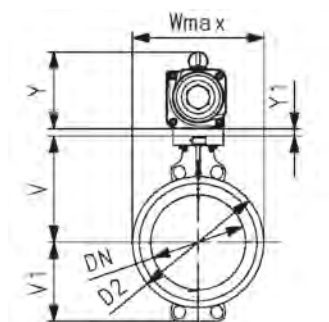
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	Actuator	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
63	2	50	10	1445	PA30	199 565 500	3.2	199 565 520	3.3
75	2 1/2	65	10	2530	PA30	199 565 501	3.5	199 565 521	3.6
90	3	80	10	4020	PA35	199 565 502	4.3	199 565 522	4.4
110	4	100	10	5850	PA40	199 565 503	5.9	199 565 523	6.1
140	5	125	10	11900	PA45	199 565 504	7.9	199 565 524	8.2
160	6	150	10	18050	PA50	199 565 505	10.7	199 565 525	11.0
225	8	200	10	43667	PA60	199 565 506	16.4	199 565 526	16.9
280	10	250	10	62333	PA65	199 565 507	25.5	199 565 527	26.2
315	12	300	6	94500	PA70	199 565 508	32.1	199 565 528	33.3

d	D2	Wmax	Hmax	Lmax	H4	V	V1	Lg	E	M2	Y	Y1	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	100.0	118.5	309.5	274.5	23	133.5	63.0	43	70.5	137.2	98.5	15	28.5
75	121.0	132.5	335.5	275.5	23	140.0	82.0	46	70.5	137.2	98.5	15	44.0
90	138.0	138.0	361.0	325.5	23	146.0	89.0	46	83.5	162.6	111.5	15	63.5
110	158.5	158.5	385.5	359.5	23	166.5	104.0	52	87.0	179.8	115.0	0	84.0
140	187.0	187.0	447.5	418.0	23	180.0	118.0	56	107.5	209.0	149.5	0	110.5
160	213.0	213.0	472.5	434.0	23	189.0	130.5	56	111.5	217.0	153.5	0	137.5
225	267.0	267.0	545.5	547.5	23	209.5	159.0	60	135.0	273.6	177.0	0	190.5
280	325.5	325.5	666.0	681.0	23	262.5	195.5	68	148.0	323.0	190.0	18	239.0
315	380.0	380.0	743.0	681.0	23	284.5	230.5	78	168.0	340.5	210.5	18	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With pneumatic actuator - fail safe to open (FO)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

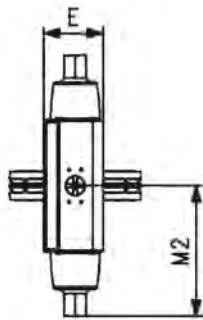
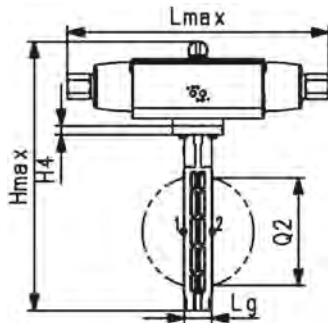
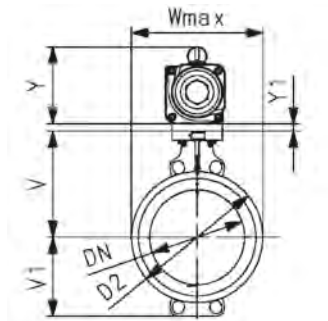
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	Actuator	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
63	2	50	10	1445	PA30	199 565 540	3.2	199 565 560	3.3
75	2 ½	65	10	2530	PA30	199 565 541	3.5	199 565 561	3.6
90	3	80	10	4020	PA35	199 565 542	4.3	199 565 562	4.4
110	4	100	10	5850	PA40	199 565 543	5.9	199 565 563	6.1
140	5	125	10	11900	PA45	199 565 544	7.9	199 565 564	8.2
160	6	150	10	18050	PA50	199 565 545	10.7	199 565 565	11.0
225	8	200	10	43667	PA60	199 565 546	14.8	199 565 566	15.3
280	10	250	10	62333	PA65	199 565 547	28.4	199 565 567	29.1
315	12	300	6	94500	PA70	199 565 548	32.1	199 565 568	33.3

d	Size	D2	Wmax	Hmax	Lmax	H4	V	V1	Lg	E	M2	Y	Y1
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	2	100.0	118.5	309.5	274.5	23	133.5	63.0	43	70.5	137.5	98.5	15
75	2 ½	121.0	132.5	335.5	275.5	23	140.0	82.0	46	70.5	137.5	98.5	15
90	3	138.0	138.0	361.0	325.5	23	146.0	89.0	46	83.5	163.0	111.5	15
110	4	158.5	158.5	385.5	359.5	23	166.5	104.0	52	87.0	180.0	115.0	0
140	5	187.0	187.0	447.5	418.0	23	180.0	118.0	56	107.5	209.0	149.5	0
160	6	213.0	213.0	472.5	434.0	23	189.0	130.5	56	111.5	217.0	153.5	0
225	8	267.0	267.0	545.5	547.5	23	209.5	159.0	60	135.0	274.0	177.0	0
280	10	325.5	325.5	666.0	681.0	23	262.5	195.5	68	148.0	323.0	190.0	18
315	12	380.0	380.0	743.0	681.0	23	284.5	230.5	78	168.0	340.5	210.5	18

d	Size	Q2
(mm)	(inch)	(mm)
63	2	28.5
75	2 ½	44.0
90	3	63.5
110	4	84.0
140	5	110.5
160	6	137.5
225	8	190.5
280	10	239.0
315	12	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF

With pneumatic actuator - double acting (DA)

Wafer style metric/ANSI/BS/JIS

Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

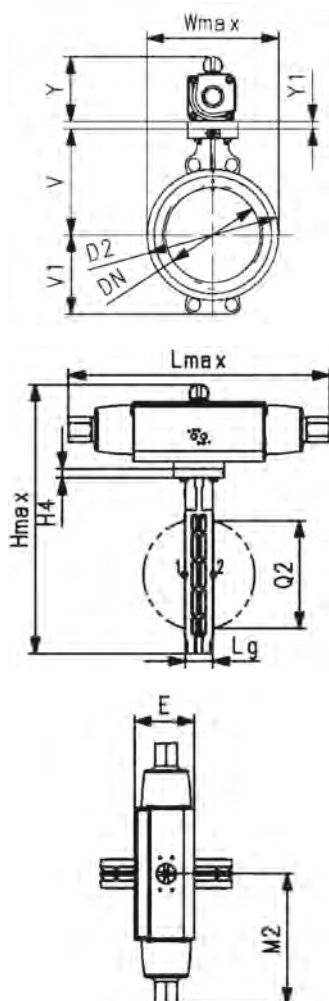
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	Actuator	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
63	2	50	10	1445	PA35	199 565 600	2.6	199 565 620	2.7
75	2 1/2	65	10	2530	PA35	199 565 601	2.9	199 565 621	3.0
90	3	80	10	4020	PA40	199 565 602	3.4	199 565 622	3.5
110	4	100	10	5850	PA45	199 565 603	4.5	199 565 623	4.7
140	5	125	10	11900	PA45	199 565 604	5.1	199 565 624	5.4
160	6	150	10	18050	PA55	199 565 605	7.7	199 565 625	8.0
225	8	200	10	43667	PA60	199 565 606	10.7	199 565 626	11.2
280	10	250	10	62333	PA65	199 565 607	16.9	199 565 627	17.6
315	12	300	6	94500	PA70	199 565 608	22.4	199 565 628	23.6

d	D2	Wmax	Hmax	Lmax	H4	V	V1	Lg	E	M2	Y	Y1	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	100.0	118.5	303.5	196.5	23	133.5	63.0	43	64.5	98.5	92.5	15	28.5
75	121.0	132.5	329.5	196.5	23	140.0	82.0	46	64.5	98.5	92.5	15	44.0
90	138.0	138.0	348.0	206.0	23	146.0	89.0	46	70.5	103.0	98.5	15	63.5
110	158.5	158.5	381.5	242.0	23	166.5	104.0	52	83.5	121.0	111.5	0	84.0
140	187.0	187.0	409.0	242.0	23	180.0	118.0	56	83.5	121.0	111.5	0	110.5
160	213.0	213.0	468.5	290.5	23	189.0	130.5	56	107.5	145.5	149.5	0	137.5
225	267.0	267.0	522.0	314.0	23	209.5	159.0	60	111.5	157.0	153.5	0	190.5
280	325.5	325.5	636.0	340.0	23	262.5	195.5	68	118.0	170.0	160.0	18	239.0
315	380.0	380.0	709.5	382.5	23	284.5	230.5	78	135.0	191.5	177.0	18	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF

With plastic pneumatic actuator - fail safe to close (FC)

Wafer style metric/ANSI/BS/JIS

Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

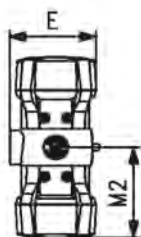
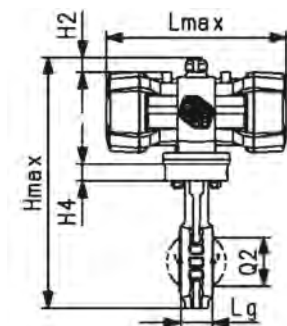
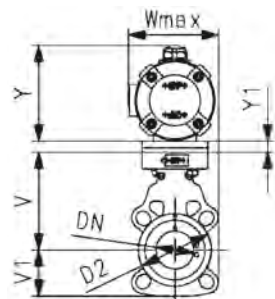
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	Actuator	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
63	2	50	PN10	1445	PPA40	199 565 650	2.922	199 565 660	2.922
75	2 1/2	65	PN10	2530	PPA80	199 565 651	4.905	199 565 661	4.905
90	3	80	PN10	4020	PPA80	199 565 652	5.075	199 565 662	5.075

d	D2	Wmax	Hmax	Lmax	H2	H4	V	V1	Lg	E	M2	Y	Y1	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	100	121.2	341.2	245.5	20	23	133.5	63	43	119.5	122.8	111	15	28.5
75	121	140.0	372.2	343.0	20	23	140.0	82	46	141.5	171.5	131	0	44.0
90	138	142.4	384.9	343.0	20	23	146.0	89	46	141.5	171.5	131	0	63.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF

With plastic pneumatic actuator - fail safe to open (FO)

Wafer style metric/ANSI/BS/JIS

Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

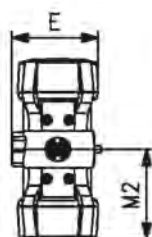
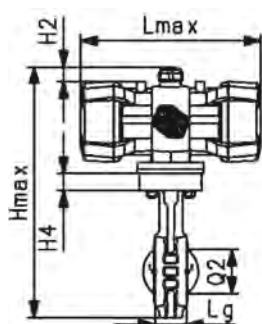
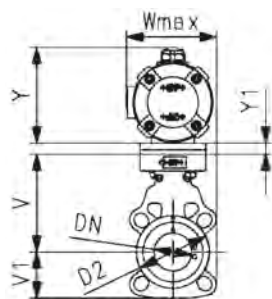
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

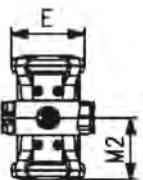
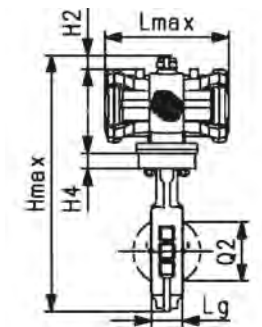
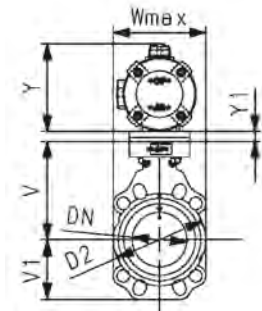
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	Actuator	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
63	2	50	PN10	1445	PPA40	199 565 670	2.922	199 565 680	2.922
75	2 1/2	65	PN10	2530	PPA80	199 565 671	4.905	199 565 681	4.905
90	3	80	PN10	4020	PPA80	199 565 672	5.075	199 565 682	5.075

d	D2	Wmax	Hmax	Lmax	H2	H4	V	V1	Lg	E	M2	Y	Y1	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	100	121.2	341.2	245.5	20	23	133.5	63	43	119.5	122.8	111	15	28.5
75	121	140.0	372.2	343.0	20	23	140.0	82	46	141.5	171.5	131	0	44.0
90	138	142.4	384.9	343.0	20	23	146.0	89	46	141.5	171.5	131	0	63.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF

With plastic pneumatic actuator - double acting (DA)

Wafer style metric/ANSI/BS/JIS

Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	kv-value	Actuator	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
63	2	50	PN10	1445	PPA40	199 565 630	2.396	199 565 690	2.396
75	2 1/2	65	PN10	2530	PPA40	199 565 631	2.664	199 565 691	2.664
90	3	80	PN10	4020	PPA40	199 565 632	2.854	199 565 692	2.854

d	D2	Wmax	Hmax	Lmax	H2	H4	V	V1	Lg	E	M2	Y	Y1	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	100	121.2	341.2	183.5	20	23	133.5	63	43.0	119.5	91.8	111	15	28.5
75	121	132.5	367.1	183.5	20	23	140.0	82	46.0	119.5	91.8	111	15	44.0
90	138	138.0	379.8	183.5	20	23	146.0	89	46.0	119.5	91.8	111	15	63.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF

With pneumatic actuator - fail safe to close (FC)

Wafer style metric/ANSI/BS/JIS

Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

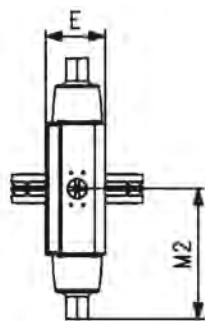
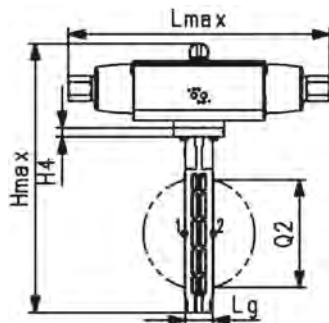
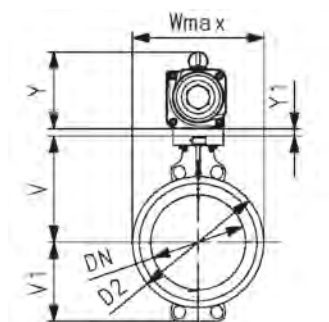
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	Actuator	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	(Δp=1 bar)		Code	(kg)	Code	(kg)
63	2	50	10	1445	PA30	199 565 500	3.2	199 565 520	3.3
75	2 ½	65	10	2530	PA30	199 565 501	3.5	199 565 521	3.6
90	3	80	10	4020	PA35	199 565 502	4.3	199 565 522	4.4
110	4	100	10	5850	PA40	199 565 503	5.9	199 565 523	6.1
140	5	125	10	11900	PA45	199 565 504	7.9	199 565 524	8.2
160	6	150	10	18050	PA50	199 565 505	10.7	199 565 525	11.0
225	8	200	10	43667	PA60	199 565 506	16.4	199 565 526	16.9
280	10	250	10	62333	PA65	199 565 507	25.5	199 565 527	26.2
315	12	300	6	94500	PA70	199 565 508	32.1	199 565 528	33.3

d	D2	Wmax	Hmax	Lmax	H4	V	V1	Lg	E	M2	Y	Y1	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	100.0	118.5	309.5	274.5	23	133.5	63.0	43	70.5	137.2	98.5	15	28.5
75	121.0	132.5	335.5	275.5	23	140.0	82.0	46	70.5	137.2	98.5	15	44.0
90	138.0	138.0	361.0	325.5	23	146.0	89.0	46	83.5	162.6	111.5	15	63.5
110	158.5	158.5	385.5	359.5	23	166.5	104.0	52	87.0	179.8	115.0	0	84.0
140	187.0	187.0	447.5	418.0	23	180.0	118.0	56	107.5	209.0	149.5	0	110.5
160	213.0	213.0	472.5	434.0	23	189.0	130.5	56	111.5	217.0	153.5	0	137.5
225	267.0	267.0	545.5	547.5	23	209.5	159.0	60	135.0	273.6	177.0	0	190.5
280	325.5	325.5	666.0	681.0	23	262.5	195.5	68	148.0	323.0	190.0	18	239.0
315	380.0	380.0	743.0	681.0	23	284.5	230.5	78	168.0	340.5	210.5	18	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF

With pneumatic actuator - fail safe to open (FO)

Wafer style metric/ANSI/BS/JIS

Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

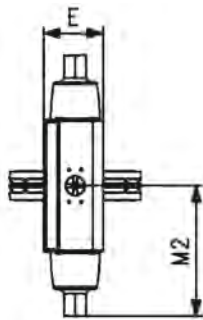
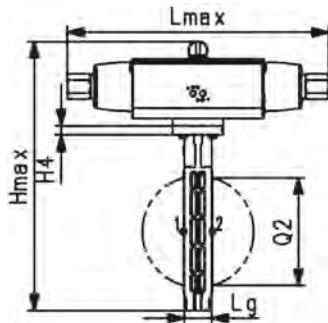
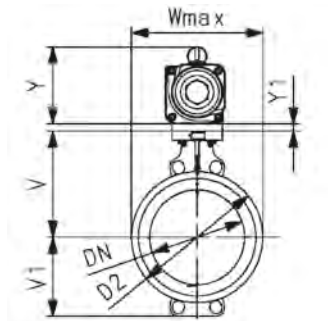
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	Actuator	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
63	2	50	10	1445	PA30	199 565 540	3.2	199 565 560	3.3
75	2 1/2	65	10	2530	PA30	199 565 541	3.5	199 565 561	3.6
90	3	80	10	4020	PA35	199 565 542	4.3	199 565 562	4.4
110	4	100	10	5850	PA40	199 565 543	5.9	199 565 563	6.1
140	5	125	10	11900	PA45	199 565 544	7.9	199 565 564	8.2
160	6	150	10	18050	PA50	199 565 545	10.7	199 565 565	11.0
225	8	200	10	43667	PA60	199 565 546	14.8	199 565 566	15.3
280	10	250	10	62333	PA65	199 565 547	28.4	199 565 567	29.1
315	12	300	6	94500	PA70	199 565 548	32.1	199 565 568	33.3

d	Size	D2	Wmax	Hmax	Lmax	H4	V	V1	Lg	E	M2	Y	Y1
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	2	100.0	118.5	309.5	274.5	23	133.5	63.0	43	70.5	137.5	98.5	15
75	2 1/2	121.0	132.5	335.5	275.5	23	140.0	82.0	46	70.5	137.5	98.5	15
90	3	138.0	138.0	361.0	325.5	23	146.0	89.0	46	83.5	163.0	111.5	15
110	4	158.5	158.5	385.5	359.5	23	166.5	104.0	52	87.0	180.0	115.0	0
140	5	187.0	187.0	447.5	418.0	23	180.0	118.0	56	107.5	209.0	149.5	0
160	6	213.0	213.0	472.5	434.0	23	189.0	130.5	56	111.5	217.0	153.5	0
225	8	267.0	267.0	545.5	547.5	23	209.5	159.0	60	135.0	274.0	177.0	0
280	10	325.5	325.5	666.0	681.0	23	262.5	195.5	68	148.0	323.0	190.0	18
315	12	380.0	380.0	743.0	681.0	23	284.5	230.5	78	168.0	340.5	210.5	18

d	Size	Q2
(mm)	(inch)	(mm)
63	2	28.5
75	2 1/2	44.0
90	3	63.5
110	4	84.0
140	5	110.5
160	6	137.5
225	8	190.5
280	10	239.0
315	12	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF

With pneumatic actuator - double acting (DA)

Wafer style metric/ANSI/BS/JIS

Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

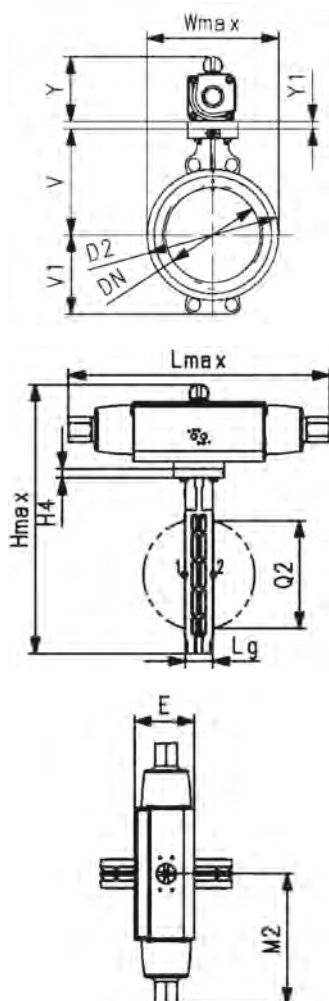
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	Actuator	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
63	2	50	10	1445	PA35	199 565 600	2.6	199 565 620	2.7
75	2 1/2	65	10	2530	PA35	199 565 601	2.9	199 565 621	3.0
90	3	80	10	4020	PA40	199 565 602	3.4	199 565 622	3.5
110	4	100	10	5850	PA45	199 565 603	4.5	199 565 623	4.7
140	5	125	10	11900	PA45	199 565 604	5.1	199 565 624	5.4
160	6	150	10	18050	PA55	199 565 605	7.7	199 565 625	8.0
225	8	200	10	43667	PA60	199 565 606	10.7	199 565 626	11.2
280	10	250	10	62333	PA65	199 565 607	16.9	199 565 627	17.6
315	12	300	6	94500	PA70	199 565 608	22.4	199 565 628	23.6

d	D2	Wmax	Hmax	Lmax	H4	V	V1	Lg	E	M2	Y	Y1	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	100.0	118.5	303.5	196.5	23	133.5	63.0	43	64.5	98.5	92.5	15	28.5
75	121.0	132.5	329.5	196.5	23	140.0	82.0	46	64.5	98.5	92.5	15	44.0
90	138.0	138.0	348.0	206.0	23	146.0	89.0	46	70.5	103.0	98.5	15	63.5
110	158.5	158.5	381.5	242.0	23	166.5	104.0	52	83.5	121.0	111.5	0	84.0
140	187.0	187.0	409.0	242.0	23	180.0	118.0	56	83.5	121.0	111.5	0	110.5
160	213.0	213.0	468.5	290.5	23	189.0	130.5	56	107.5	145.5	149.5	0	137.5
225	267.0	267.0	522.0	314.0	23	209.5	159.0	60	111.5	157.0	153.5	0	190.5
280	325.5	325.5	636.0	340.0	23	262.5	195.5	68	118.0	170.0	160.0	18	239.0
315	380.0	380.0	709.5	382.5	23	284.5	230.5	78	135.0	191.5	177.0	18	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF

With plastic pneumatic actuator - fail safe to open (FO)

Wafer style metric/ANSI/BS/JIS

Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

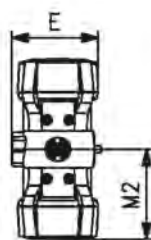
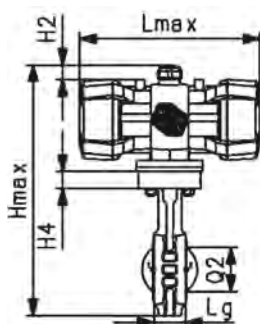
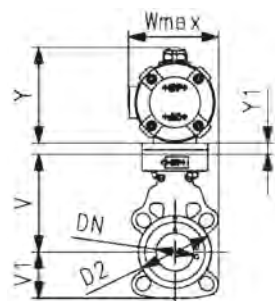
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

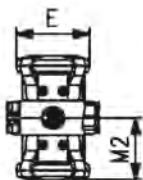
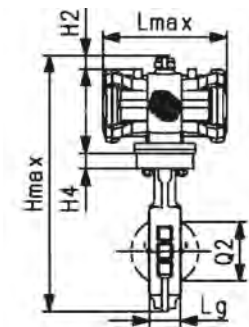
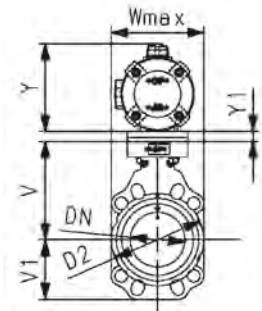
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	Actuator	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
63	2	50	PN10	1445	PPA40	199 565 670	2.922	199 565 680	2.922
75	2 1/2	65	PN10	2530	PPA80	199 565 671	4.905	199 565 681	4.905
90	3	80	PN10	4020	PPA80	199 565 672	5.075	199 565 682	5.075

d	D2	Wmax	Hmax	Lmax	H2	H4	V	V1	Lg	E	M2	Y	Y1	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	100	121.2	341.2	245.5	20	23	133.5	63	43	119.5	122.8	111	15	28.5
75	121	140.0	372.2	343.0	20	23	140.0	82	46	141.5	171.5	131	0	44.0
90	138	142.4	384.9	343.0	20	23	146.0	89	46	141.5	171.5	131	0	63.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With plastic pneumatic actuator - double acting (DA)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	kv-value	Actuator	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
63	2	50	PN10	1445	PPA40	199 565 630	2.396	199 565 690	2.396
75	2 1/2	65	PN10	2530	PPA40	199 565 631	2.664	199 565 691	2.664
90	3	80	PN10	4020	PPA40	199 565 632	2.854	199 565 692	2.854

d	D2	Wmax	Hmax	Lmax	H2	H4	V	V1	Lg	E	M2	Y	Y1	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	100	121.2	341.2	183.5	20	23	133.5	63	43.0	119.5	91.8	111	15	28.5
75	121	132.5	367.1	183.5	20	23	140.0	82	46.0	119.5	91.8	111	15	44.0
90	138	138.0	379.8	183.5	20	23	146.0	89	46.0	119.5	91.8	111	15	63.5



Lug-style end installation butterfly valve Type 243 PVC-U
FC (Fail safe to close)
Flange standard metric

Model:

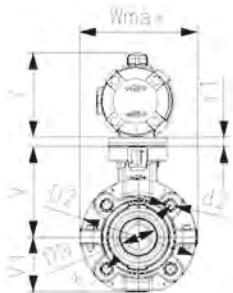
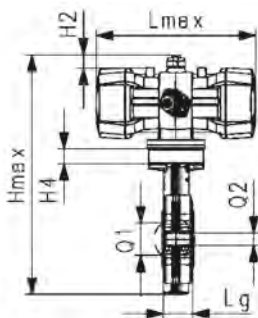
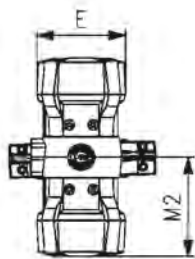
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 602	3.499	199 243 622	3.499
75	2 1/2	65	10	199 243 603	3.656	199 243 623	3.656
90	3	80	10	199 243 604	4.692	199 243 624	4.692
110	4	100	10	199 243 605	6.406	199 243 625	6.406
140	5	125	10	199 243 606	9.222	199 243 626	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve Type 243 PVC-U

FO (Fail safe to open)

Flange standard metric

Model:

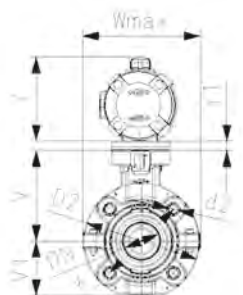
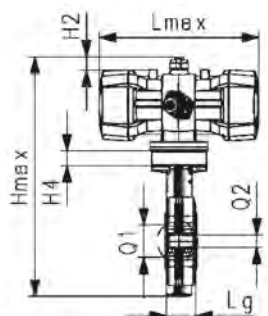
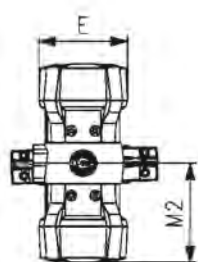
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

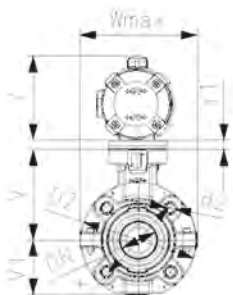
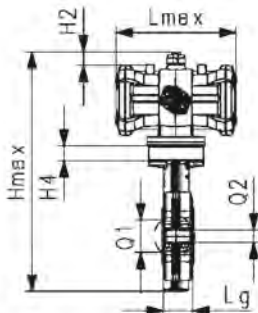
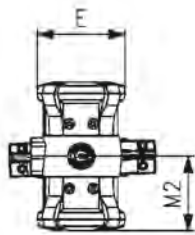
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 632	3.499	199 243 642	3.499
75	2 1/2	65	10	199 243 633	3.656	199 243 643	3.656
90	3	80	10	199 243 634	4.692	199 243 644	4.692
110	4	100	10	199 243 635	6.406	199 243 645	6.406
140	5	125	10	199 243 636	9.222	199 243 646	9.222

d	Hmax	Lmax	Wmax	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y	E
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	133.3	23	78.8	44.7	160	40		M16	125	111	119.5
75	351.0	245.5	182	139.9	23	85.1	45.7	180	54	35	M16	145	111	119.5
90	367.8	343.0	210	145.6	23	91.2	48.7	195	67	50	M16	160	131	141.5
110	404.5	343.0	240	166.0	23	107.5	55.6	226	88	74	M16	180	131	141.5
140	433.7	343.0	272	180.0	23	122.7	63.5	258	113	97	M16	210	131	141.5

d	Y1	M2
(mm)	(mm)	(mm)
63	15	122.8
75	15	122.8
90	15	171.5
110		171.5
140		171.5



Lug-style end installation butterfly valve Type 243 PVC-U DA (Double acting) Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 652	3.499	199 243 662	3.499
75	2 ½	65	10	199 243 653	3.656	199 243 663	3.656
90	3	80	10	199 243 654	4.692	199 243 664	4.692
110	4	100	10	199 243 655	6.406	199 243 665	6.406
140	5	125	10	199 243 656	9.222	199 243 666	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50



Lug-style end installation butterfly valve type 243 PVC-C

FC (Fail safe to close)

Flange standard metric

Model:

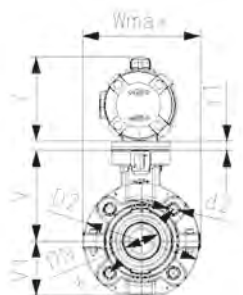
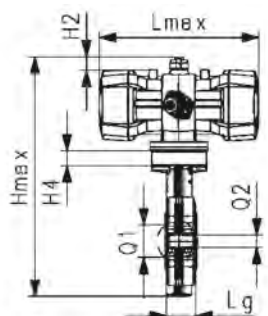
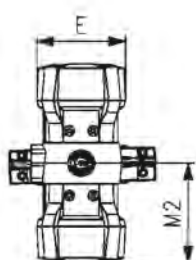
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 712	3.499	199 243 722	3.499
75	2 ½	65	10	199 243 713	3.656	199 243 723	3.656
90	3	80	10	199 243 714	4.692	199 243 724	4.692
110	4	100	10	199 243 715	6.406	199 243 725	6.406
140	5	125	10	199 243 716	9.222	199 243 726	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 PVC-C
FO (Fail safe to open)
Flange standard metric

Model:

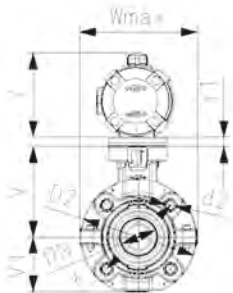
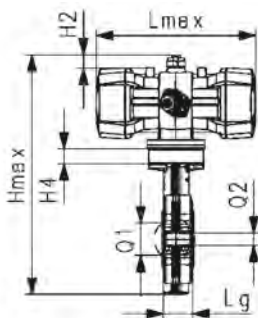
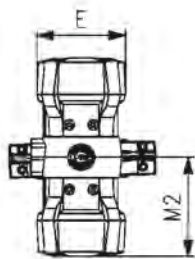
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 732	3.499	199 243 742	3.499
75	2 1/2	65	10	199 243 733	3.656	199 243 743	3.656
90	3	80	10	199 243 734	4.692	199 243 744	4.692
110	4	100	10	199 243 735	6.406	199 243 745	6.406
140	5	125	10	199 243 736	9.222	199 243 746	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 PVC-C
DA (Double acting)
Flange standard metric

Model:

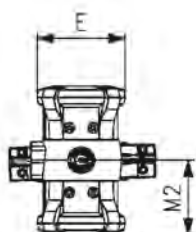
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

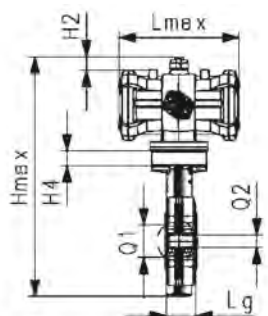
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

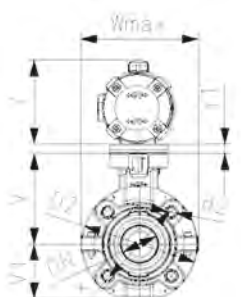


d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 752	3.499	199 243 762	3.499
75	2 ½	65	10	199 243 753	3.656	199 243 763	3.656
90	3	80	10	199 243 754	4.692	199 243 764	4.692
110	4	100	10	199 243 755	6.406	199 243 765	6.406
140	5	125	10	199 243 756	9.222	199 243 766	9.222



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50





PROGEF Standard Lug-style end installation butterfly valve type 243
FC (Fail safe to close)
Flange standard metric

Model:

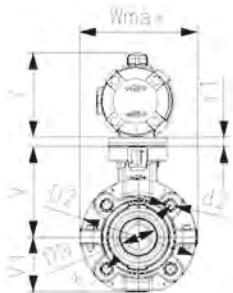
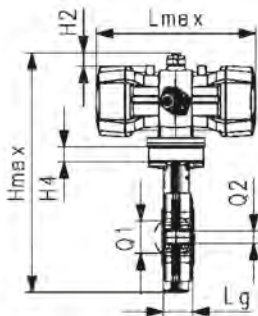
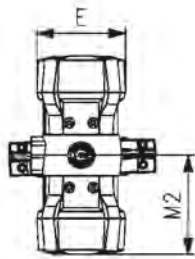
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 802	3.499	199 243 822	3.499
75	2 1/2	65	10	199 243 803	3.656	199 243 823	3.656
90	3	80	10	199 243 804	4.692	199 243 824	4.692
110	4	100	10	199 243 805	6.406	199 243 825	6.406
140	5	125	10	199 243 806	9.222	199 243 826	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.79
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



PROGEF Standard Lug-style end installation butterfly valve type 243

FO (Fail safe to open)

Flange standard metric

Model:

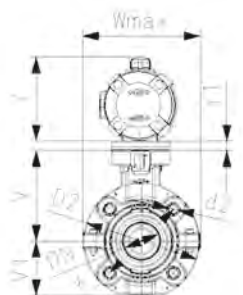
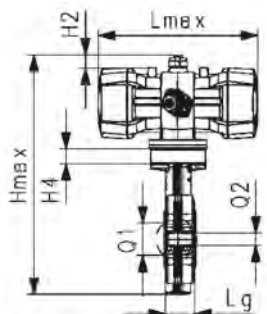
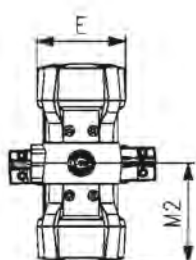
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 832	3.499	199 243 842	3.499
75	2 ½	65	10	199 243 833	3.656	199 243 843	3.656
90	3	80	10	199 243 834	4.692	199 243 844	4.692
110	4	100	10	199 243 835	6.406	199 243 845	6.406
140	5	125	10	199 243 836	9.222	199 243 846	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



PROGEF Standard Lug-style end installation butterfly valve type 243
DA (Double acting)
Flange standard metric

Model:

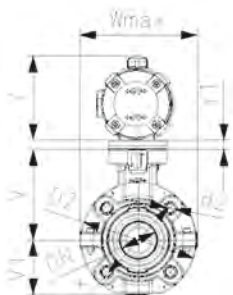
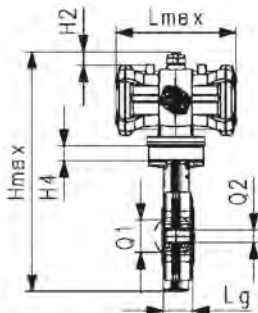
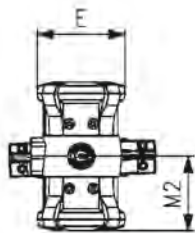
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 243 852	3.499	199 243 862	3.499
75	2 1/2	65	10	199 243 853	3.656	199 243 863	3.656
90	3	80	10	199 243 854	4.692	199 243 864	4.692
110	4	100	10	199 243 855	6.406	199 243 865	6.406
140	5	125	10	199 243 856	9.222	199 243 866	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50



Lug-style end installation butterfly valve type 243 ABS

FC (Fail safe to close)

Flange standard metric

Model:

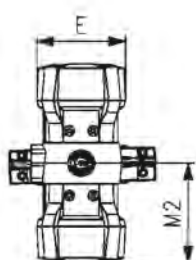
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

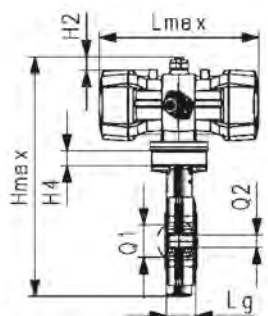
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

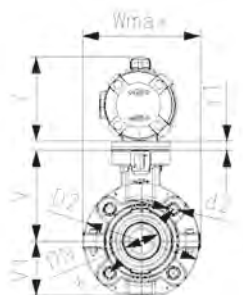


d	Size	DN	PN	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 243 920	3.499
75	2 ½	65	10	199 243 921	3.656
90	3	80	10	199 243 922	4.692
110	4	100	10	199 243 923	6.406
140	5	125	10	199 243 924	9.222



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50





Lug-style end installation butterfly valve type 243 ABS
FC (Fail safe to close)
Flange standard metric

Model:

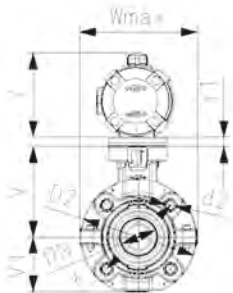
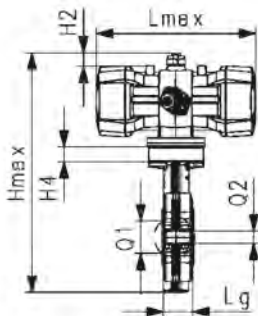
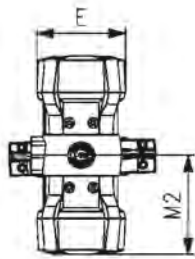
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 243 920	3.499
75	2 1/2	65	10	199 243 921	3.656
90	3	80	10	199 243 922	4.692
110	4	100	10	199 243 923	6.406
140	5	125	10	199 243 924	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 ABS

FO (Fail safe to open)

Flange standard metric

Model:

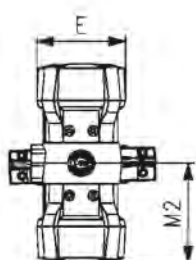
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° <) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

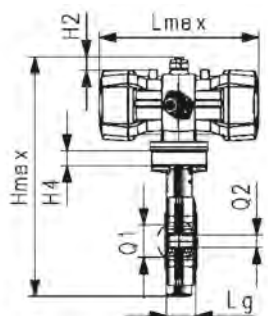
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

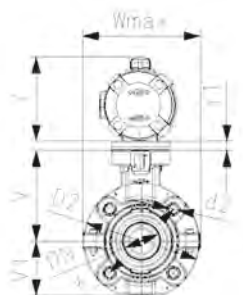


d	Size	DN	PN	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 243 930	3.499
75	2 ½	65	10	199 243 931	3.656
90	3	80	10	199 243 932	4.692
110	4	100	10	199 243 933	6.406
140	5	125	10	199 243 934	9.222



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50





Lug-style end installation butterfly valve type 243 ABS

FO (Fail safe to open)

Flange standard metric

Model:

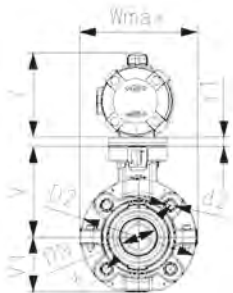
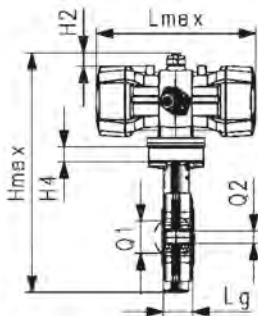
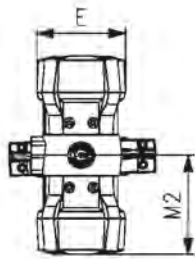
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 243 930	3.499
75	2 1/2	65	10	199 243 931	3.656
90	3	80	10	199 243 932	4.692
110	4	100	10	199 243 933	6.406
140	5	125	10	199 243 934	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 ABS

DA (Double acting)

Flange standard metric

Model:

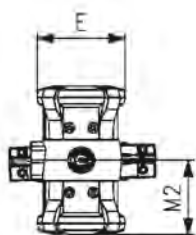
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

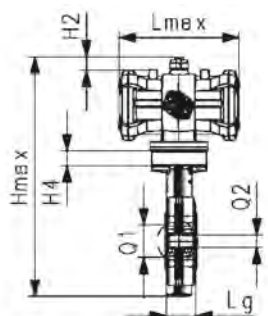
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

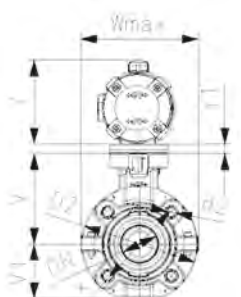


d	Size	DN	PN	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 243 900	3.499
75	2 ½	65	10	199 243 901	3.656
90	3	80	10	199 243 902	4.692
110	4	100	10	199 243 903	6.406
140	5	125	10	199 243 904	9.222



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50





SYGEF Standard Lug-style end installation butterfly valve type 243
FC (Fail safe to close)
Flange standard metric

Model:

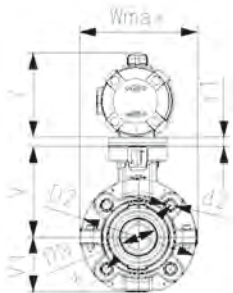
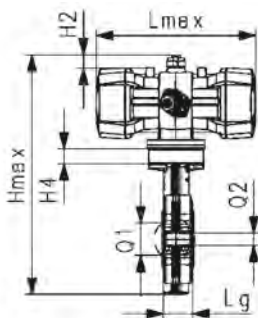
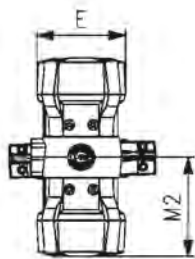
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 243 925	3.499
75	2 ½	65	10	199 243 926	3.656
90	3	80	10	199 243 927	4.692
110	4	100	10	199 243 928	6.406
140	5	125	10	199 243 929	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



SYGEF Standard Lug-style end installation butterfly valve type 243

FO (Fail safe to open)

Flange standard metric

Model:

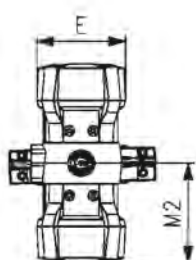
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

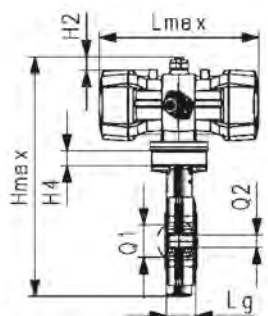
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

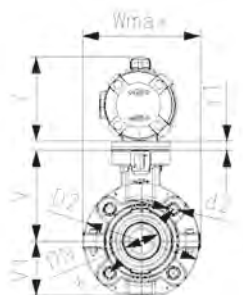


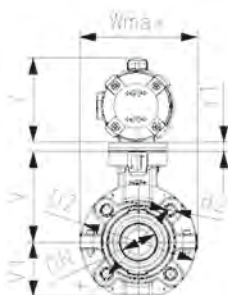
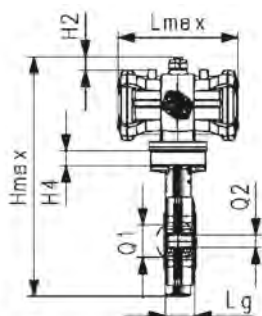
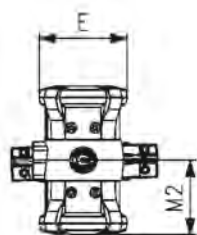
d	Size	DN	PN	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 243 935	3.499
75	2 ½	65	10	199 243 936	3.656
90	3	80	10	199 243 937	4.692
110	4	100	10	199 243 938	6.406
140	5	125	10	199 243 939	9.222



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50

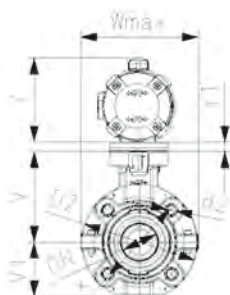
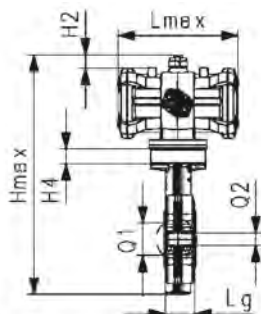
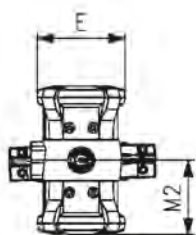




d	Size	DN	PN	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 243 905	3.499
75	2 ½	65	10	199 243 906	3.656
90	3	80	10	199 243 907	4.692
110	4	100	10	199 243 908	6.406
140	5	125	10	199 243 909	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50



SYGEF Standard Lug-style end installation butterfly valve type 243

DA (Double acting)

Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

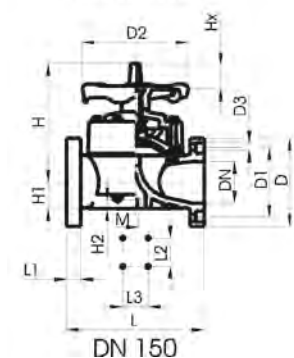
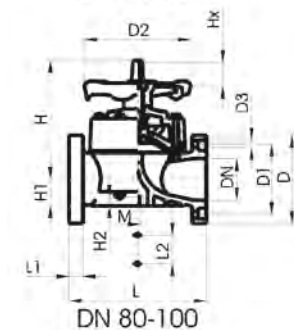
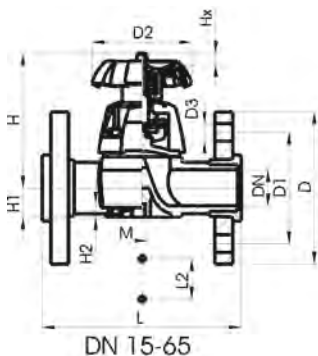
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 243 905	3.499
75	2 ½	65	10	199 243 906	3.656
90	3	80	10	199 243 907	4.692
110	4	100	10	199 243 908	6.406
140	5	125	10	199 243 909	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k	Y
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d	E	Y1	M2
(mm)	(mm)	(mm)	(mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50

Diaphragm valves type 317



PROGEF Standard Diaphragm valve type 317 With flanges metric

Model:

- Material: PP-H
- Joining faces flat/serrated
- DN65 with PP-V backing flange
- DN 80-150 with fixed flange
- Overall length according to EN 558
- Connecting dimension: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

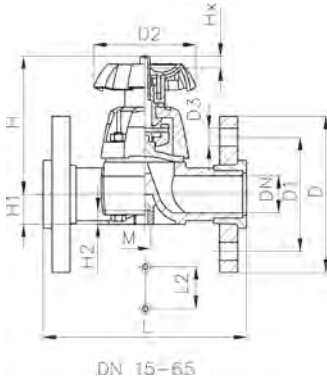
- Handwheel lockable DN65 (basic version not lockable)

* **DN80 and DN150 fixed flanges metric and inch ANSI B16.5**

	d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	NBR Code	Weight (kg)	EPDM Code	Weight (kg)
	75	65	2 1/2	10	992	167 317 158	4.700	167 317 173	4.651
*	90	80	3	10	1700	167 317 009	7.954	167 317 024	8.689
	110	100	4	6	2700	167 317 010	11.291	167 317 025	11.237
*	160	150	6	6	6033	167 317 012	25.000	167 317 027	24.707

d (mm)	PTFE with EPDM supporting diaphragm Code	Weight (kg)
75	167 317 188	5.480
*	90 167 317 039	8.088
110	167 317 040	11.439
*	160 167 317 042	25.000

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M	Lift = Hx (mm)	AL
75	185	145	152	18	210	46	15	290		70		M8	35	4
*	90	200	160	270	18	265	57	310	35	120		M12	40	8
	110	225	180	270	18	304	69	350	38	120		M12	50	8
*	160	282	241	400	23	437	108	480	29	100	200	M12	70	8



PROGEF Standard Diaphragm valve type 317 With backing flanges PP-st metric

Model:

- Material: PP-H
- Joining faces flat/serrated
- Overall length according to EN 558
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

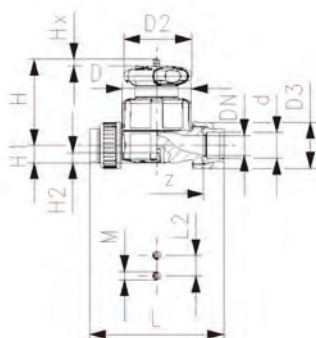
Option:

- Handwheel lockable DN15-65 (basic version not lockable)

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	PTFE with EPDM supporting diaphragm Code	Weight (kg)
75	65	2 1/2	10	992	167 317 278	7.040

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	AL
75	185	145	152	18	210	46	15	290	70	M8	35	4

Diaphragm valves type 514



PROGEF Standard Diaphragm valve type 514 With fusion sockets metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

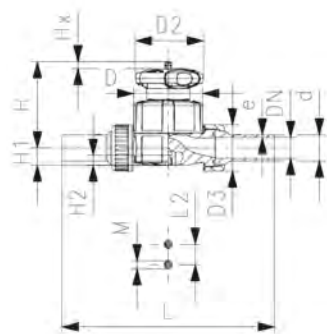
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)
20	15	½	10	125
25	20	¾	10	271
32	25	1	10	481
40	32	1 ¼	10	759
50	40	1 ½	10	1263
63	50	2	10	1728

d (mm)	NBR Code	EPDM Code	PTFE/ EPDM* Code	FKM Code	Weight (kg)
20	167 514 002	167 514 012	167 514 032	167 514 062	0.267
25	167 514 003	167 514 013	167 514 033	167 514 063	0.391
32	167 514 004	167 514 014	167 514 034	167 514 064	1.151
40	167 514 005	167 514 015	167 514 035	167 514 065	1.277
50	167 514 006	167 514 016	167 514 036	167 514 066	1.386
63	167 514 007	167 514 017	167 514 037	167 514 067	3.030

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M (mm)	z (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	48	73	14	12	128	25	M6	96	7	½
25	80	65	58	81	18	12	150	25	M6	114	10	¾
32	88	87	65	107	22	12	162	25	M6	122	13	1
40	101	87	79	115	26	15	184	45	M8	140	15	1 ¼
50	117	135	91	148	32	15	210	45	M8	160	19	1 ½
63	144	135	111	166	39	15	248	45	M8	190	25	2



PROGEF Standard Diaphragm valve type 514 With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

d	DN	Size	PN	kv-value
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)
				(l/min)
20	15	½	10	125
25	20	¾	10	271
32	25	1	10	481
40	32	1 ¼	10	759
50	40	1 ½	10	1263
63	50	2	10	1728

d	NBR	EPDM	PTFE/	FKM	PTFE/FKM*	Weight
(mm)	Code	Code	EPDM*	Code	Code	(kg)
			Code			
20	167 514 102	167 514 112	167 514 132	167 514 162	800 047 314	0.390
25	167 514 103	167 514 113	167 514 133	167 514 163	800 047 316	0.520
32	167 514 104	167 514 114	167 514 134	167 514 164	800 047 317	0.625
40	167 514 105	167 514 115	167 514 135	167 514 165	800 047 318	1.340
50	167 514 106	167 514 116	167 514 136	167 514 166	800 047 319	2.360
63	167 514 107	167 514 117	167 514 137	167 514 167	800 047 320	3.090

d	D	D2	D3	H	H1	H2	L	L2	M	e	Lift =	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	Hx	inch
											(mm)	(inch)
20	65	65	48	73	14	12	196	25	M6	1.9	7	½
25	80	65	58	81	18	12	221	25	M6	2.3	10	¾
32	88	87	65	107	22	12	234	25	M6	2.9	13	1
40	101	87	79	115	26	15	260	45	M8	3.7	15	1 ¼
50	117	135	91	148	32	15	284	45	M8	4.6	19	1 ½
63	144	135	111	166	39	15	321	45	M8	5.8	25	2

Diaphragm valves type 515



PROGEF Standard Diaphragm valve type 515 With socket fusion spigots metric

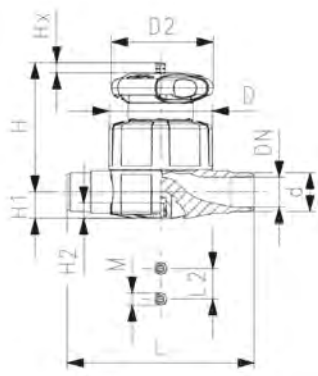
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

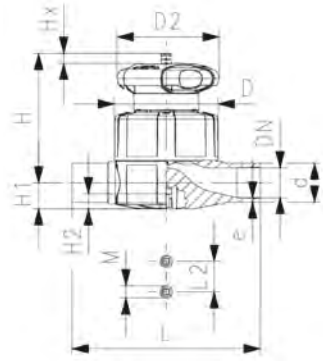
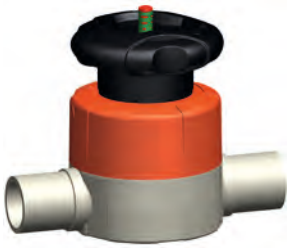
* O-Ring material: FKM



d	DN	Size	PN	kv-value
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)
				(l/min)
20	15	½	10	125
25	20	¾	10	271
32	25	1	10	481
40	32	1 ¼	10	759
50	40	1 ½	10	1263
63	50	2	10	1728

d	NBR	EPDM	PTFE/	FKM	Weight
(mm)	Code	Code	EPDM* Code	Code	(kg)
20	167 515 002	167 515 012	167 515 032	167 515 062	0.298
25	167 515 003	167 515 013	167 515 033	167 515 063	0.293
32	167 515 004	167 515 014	167 515 034	167 515 064	0.950
40	167 515 005	167 515 015	167 515 035	167 515 065	1.108
50	167 515 006	167 515 016	167 515 036	167 515 066	2.057
63	167 515 007	167 515 017	167 515 037	167 515 067	2.604

d	D	D2	H	H1	H2	L	L2	M	e	Lift = Hx	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	(inch)
20	65	65	73	14	12	124	25	M6	1.9	7	½
25	80	65	81	18	12	144	25	M6	2.3	10	¾
32	88	87	107	22	12	154	25	M6	2.9	13	1
40	101	87	115	26	15	174	45	M8	3.7	15	1 ¼
50	117	135	148	32	15	194	45	M8	4.6	19	1 ½
63	144	135	166	39	15	223	45	M8	5.8	25	2



PROGEF Standard Diaphragm valve type 515 With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

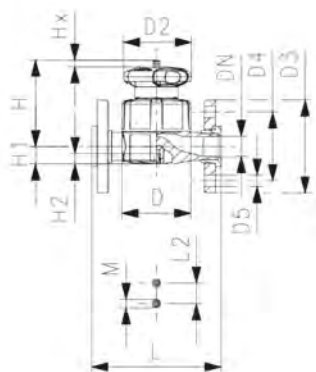
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)
20	15	½	10	125
25	20	¾	10	271
32	25	1	10	481
40	32	1 ¼	10	759
50	40	1 ½	10	1263
63	50	2	10	1728

d (mm)	NBR Code	EPDM Code	PTFE/ EPDM* Code	FKM Code	Weight (kg)
20	167 515 102	167 515 112	167 515 132	167 515 162	0.297
25	167 515 103	167 515 113	167 515 133	167 515 163	0.381
32	167 515 104	167 515 114	167 515 134	167 515 164	0.948
40	167 515 105	167 515 115	167 515 135	167 515 165	1.104
50	167 515 106	167 515 116	167 515 136	167 515 166	2.052
63	167 515 107	167 515 117	167 515 137	167 515 167	2.601

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	73	14	12	124	25	M6	1.9	7	½
25	80	65	81	18	12	144	25	M6	2.3	10	¾
32	88	87	107	22	12	155	25	M6	2.9	13	1
40	101	87	115	26	15	176	45	M8	3.7	15	1 ¼
50	117	135	148	32	15	193	45	M8	4.6	19	1 ½
63	144	135	166	39	15	223	45	M8	5.8	25	2

Diaphragm valves type 517



PROGEF Standard Diaphragm valve type 517 With backing flanges PP-V metric/BS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

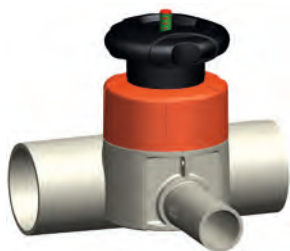
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)
20	15	½	10	125
25	20	¾	10	271
32	25	1	10	481
40	32	1 ¼	10	759
50	40	1 ½	10	1263
63	50	2	10	1728

d (mm)	NBR Code	EPDM Code	PTFE/ EPDM* Code	FKM Code	Weight (kg)
20	167 517 102	167 517 112	167 517 132	167 517 162	0.480
25	167 517 103	167 517 113	167 517 133	167 517 163	0.629
32	167 517 104	167 517 114	167 517 134	167 517 164	1.296
40	167 517 105	167 517 115	167 517 135	167 517 165	1.640
50	167 517 106	167 517 116	167 517 136	167 517 166	2.601
63	167 517 107	167 517 117	167 517 137	167 517 167	3.544

d (mm)	D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	65	65	95	65	14	73	14	12	130	25	M6	7	½
25	80	65	105	75	14	81	18	12	150	25	M6	10	¾
32	88	87	115	85	14	107	22	12	160	25	M6	13	1
40	101	87	140	100	18	115	26	15	180	45	M8	15	1 ¼
50	117	135	150	110	18	148	32	15	200	45	M8	19	1 ½
63	144	135	165	125	18	166	39	15	230	45	M8	25	2

Diaphragm valves type 519



PROGEF Standard Diaphragm valve type 519 With butt fusion spigots metric

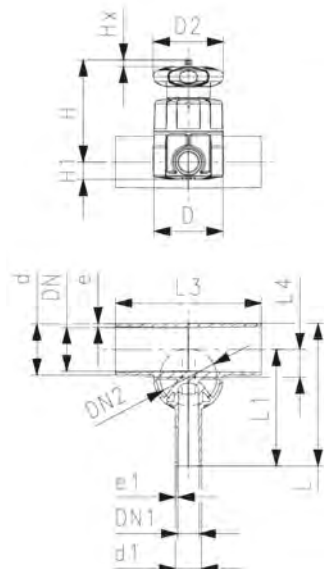
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Smallest possible dead space

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

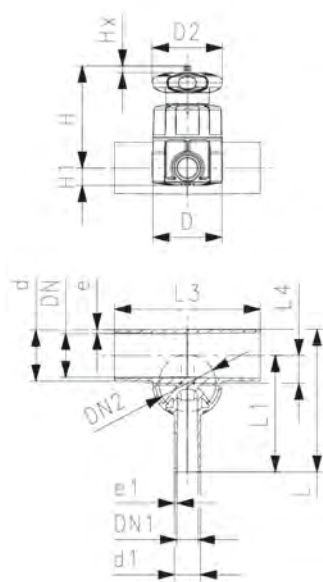
* O-Ring material: FKM



d	d1	DN	DN1	Size	Valve	SDR	PN	kv-value
(mm)	(mm)	(mm)	(mm)	(inch)	Size d		(bar)	(Δp=1 bar)
					(mm)			(l/min)
20	20	15	15	½	20	11	10	57
25	20	20	15	¾	25	11	10	89
25	25	20	20	¾	25	11	10	118
32	20	25	15	1	25	11	10	80
32	25	25	20	1	25	11	10	105
32	32	25	25	1	32	11	10	231
40	20	32	15	1 ¼	32	11	10	85
40	40	32	32	1 ¼	32	11	10	187
50	20	40	15	1 ½	25	11	10	86
50	25	40	20	1 ½	32	11	10	160
50	32	40	25	1 ½	32	11	10	206
63	20	50	15	2	25	11	10	84
63	25	50	20	2	32	11	10	150
63	32	50	25	2	32	11	10	184

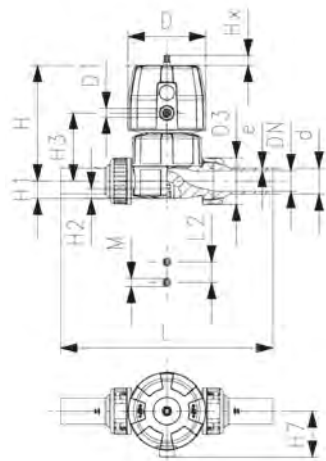
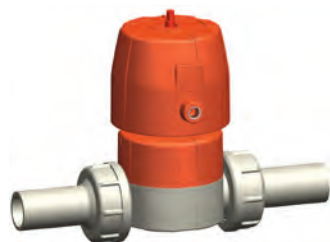
d	EPDM	PTFE/	Weight
(mm)	Code	EPDM* Code	(kg)
20	167 519 101	167 519 301	0.321
25	167 519 103	167 519 303	0.397
25	167 519 104	167 519 304	0.399
32	167 519 107	167 519 307	0.424
32	167 519 108	167 519 308	0.426
32	167 519 109	167 519 309	0.980
40	167 519 112	167 519 312	0.553
40	167 519 115	167 519 315	1.034
50	167 519 118	167 519 318	0.485
50	167 519 119	167 519 319	1.054
50	167 519 120	167 519 320	1.056
63	167 519 125	167 519 325	0.525
63	167 519 126	167 519 326	1.097
63	167 519 127	167 519 327	1.100

d	D	D2	H	L	L1	L3	L4	e	Lift =	DN2	closest	e1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Hx	(mm)	inch	(mm)
									(mm)		(inch)	
20	65	65	75	117	96	162	12	1.9	7	15	½	1.9
25	80	65	80	133	108	162	16	2.3	10	20	¾	1.9
25	80	65	80	133	108	162	16	2.3	10	20	¾	2.3
32	80	65	84	142	120	162	19	2.9	10	20	1	1.9
32	80	65	84	142	120	162	19	2.9	10	20	1	2.3
32	88	87	107	145	120	160	19	2.9	13	25	1	2.9
40	88	87	115	149	128	180	23	3.7	13	25	1 ¼	1.9
40	88	87	115	174	153	180	23	3.7	13	25	1 ¼	3.7
50	80	65	97	160	134	180	27	4.6	10	20	1 ½	1.9



d (mm)	D (mm)	D2 (mm)	H (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	closest inch (inch)	e1 (mm)
50	88	87	120	160	134	180	28	4.6	13	25	1 ½	2.3
50	88	87	120	160	134	180	28	4.6	13	25	1 ½	2.9
63	80	65	104	177	144	180	33	5.8	10	20	2	1.9
63	88	87	127	177	144	180	35	5.8	13	25	2	2.3
63	88	87	127	177	144	180	35	5.8	13	25	2	2.9

Diaphragm valves pneumatic DIASTAR Six



PROGEF Standard Diaphragm valve DIASTAR Six FC (Fail safe to close) Unions with butt fusion spigots SDR11 metric

Model:

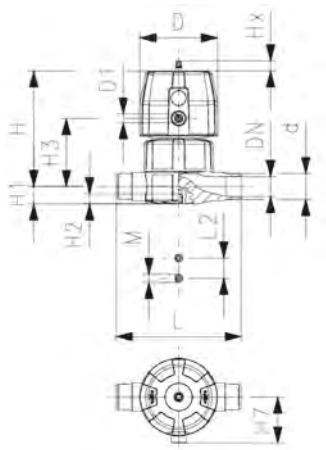
- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
25	20	¾	6	271	167 614 113	0.871	800 047 262	1.760
32	25	1	6	481	167 614 114	1.589	800 047 263	2.610
40	32	1 ¼	6	759	167 614 115	1.805	800 047 259	3.760
50	40	1 ½	6	960	167 614 116	2.279	800 047 264	6.220
63	50	2	6	1181	167 614 117	3.421	800 047 265	7.800

d	D	D1_G	H	H1	H2	H3	H7	L	L2	M	e	Lift = Hx	closest inch
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	(inch)
25	96	¾	132	18	12	73	57	221	25	M6	2.3	10	¾
32	96	¾	143	22	12	84	57	234	25	M6	2.9	13	1
40	120	¾	173	26	15	99	69	260	45	M8	3.7	14	1 ¼
50	120	¾	193	32	15	119	69	284	45	M8	4.6	16	1 ½
63	120	¾	205	39	15	132	69	321	45	M8	5.8	16	2



PROGEF Standard Diaphragm valve DIASTAR Six FC (Fail safe to close) With socket fusion spigots metric

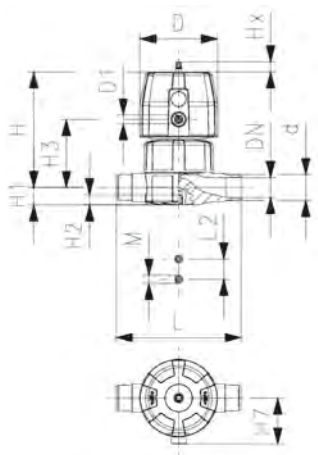
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve

d	DN	Size	PN	kv-value	EPDM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
25	20	¾	6	271	167 615 013	0.904
32	25	1	6	481	167 615 014	1.054
40	32	1 ¼	6	759	167 615 015	1.747
50	40	1 ½	6	960	167 615 016	2.207
63	50	2	6	1181	167 615 017	2.981



d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
25	96	⅜	132	18	12	73	57	144	25	M6	2.3	10	⅜
32	96	⅜	143	22	12	84	57	154	25	M6	2.9	13	1
40	120	⅜	173	26	15	99	69	174	45	M8	3.7	14	1 ¼
50	120	⅜	193	32	15	119	69	194	45	M8	4.6	16	1 ½
63	120	⅜	205	39	15	132	69	224	45	M8	5.8	16	2



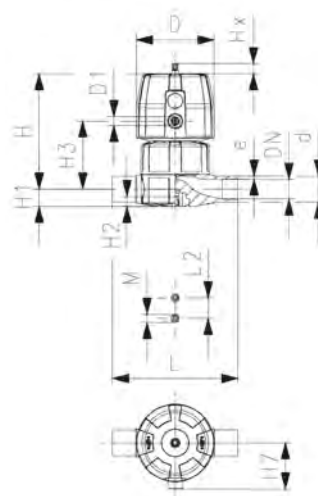
**PROGEF Standard Diaphragm valve DIASTAR Six
FC (Fail safe to close)
With butt fusion spigots SDR11 metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
25	20	⅜	6	271	167 615 113	0.900
32	25	1	6	481	167 615 114	1.062
40	32	1 ¼	6	759	167 615 115	1.743
50	40	1 ½	6	960	167 615 116	2.202
63	50	2	6	1181	167 615 117	2.978

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
25	96	⅜	132	18	12	73	57	144	25	M6	2.3	10	⅜
32	96	⅜	143	22	12	84	57	154	25	M6	2.9	13	1
40	120	⅜	173	26	15	99	69	174	45	M8	3.7	14	1 ¼
50	120	⅜	193	32	15	119	69	194	45	M8	4.6	16	1 ½
63	120	⅜	205	39	15	132	69	224	45	M8	5.8	16	2



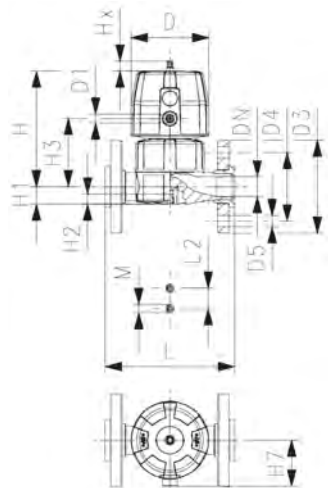
**PROGEF Standard Diaphragm valve DIASTAR Six
FC (Fail safe to close)
With backing flanges PP-V metric/BS**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)
25	20	¾	6	271	167 617 113	1.148
32	25	1	6	481	167 617 114	1.410
40	32	1 ¼	6	759	167 617 115	2.279
50	40	1 ½	6	960	167 617 116	2.751
63	50	2	6	1181	167 617 117	3.921

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
25	96	¾	105	75	14	132	18	12	73	57	150	25	M6	10
32	96	¾	115	85	14	143	22	12	84	69	160	25	M6	13
40	120	¾	140	100	18	173	26	15	99	69	180	45	M8	14
50	120	¾	150	110	18	193	32	15	119	69	200	45	M8	16
63	120	¾	165	125	18	205	39	15	132	69	230	45	M8	16

d (mm)	closest inch (inch)
25	¾
32	1
40	1 ¼
50	1 ½
63	2



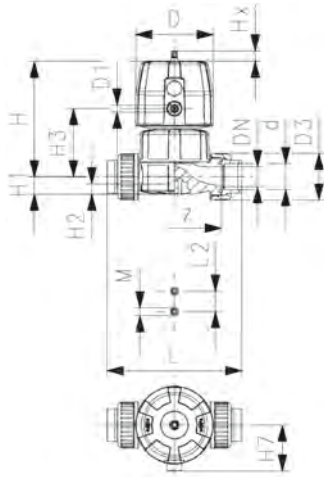
**PROGEF Standard Diaphragm valve DIASTAR Six
FC (Fail safe to close)
Unions with fusion sockets metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

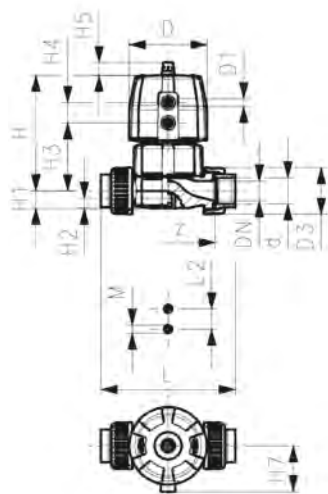
- Individual configuration of the valve



d	DN	Size	PN	kv-value	EPDM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
25	20	¾	6	271	167 614 013	0.974
32	25	1	6	481	167 614 014	1.180
40	32	1 ¼	6	759	167 614 015	1.949
50	40	1 ½	6	960	167 614 016	2.450
63	50	2	6	1181	167 614 017	3.153

d	D	D1_G	H	H1	H2	H3	H7	L	L2	M	z	Lift = Hx	closest inch
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	(inch)
25	96	¾	132	18	12	73	57	150	25	M6	114	10	¾
32	96	¾	143	22	12	84	57	162	25	M6	122	13	1
40	120	¾	173	26	15	99	69	184	45	M8	140	14	1 ¼
50	120	¾	193	32	15	119	69	210	45	M8	160	16	1 ½
63	120	¾	205	39	15	132	69	248	45	M8	190	16	2

Diaphragm valves pneumatic DIASTAR Ten



PROGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) Unions with fusion sockets metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

Working Pressure: **one side**

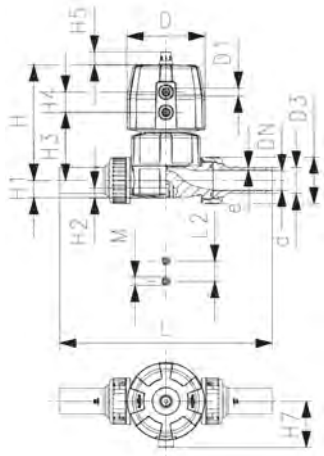
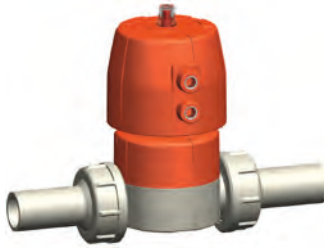
*Material O-ring (for PTFE diaphragms): FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	125	167 624 012	0.524	167 624 062	0.555
25	20	¾	10	271	167 624 013	1.061	167 624 063	1.082
32	25	1	10	481	167 624 014	1.272	167 624 064	1.267
40	32	1 ¼	10	759	167 624 015	2.123	167 624 065	2.066
50	40	1 ½	10	1263	167 624 016	3.593	167 624 066	3.593
63	50	2	6	1728	167 624 017	4.195	167 624 067	4.328

d (mm)	PTFE/EPDM Code	Weight (kg)	PTFE/FKM Code	Weight (kg)
20	167 624 032	0.526	167 624 052	0.526
25	167 624 033	1.071	167 624 053	1.071
32	167 624 034	1.286	167 624 054	1.286
40	167 624 035	2.152	167 624 055	2.152
50	167 624 036	3.623	167 624 056	3.623
63	167 624 037	5.032	167 624 057	5.032

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
20	68	¾	101	14	12	60	24	16	43	128	25	M6	96	7
25	96	¾	132	18	12	73	25	16	57	150	25	M6	114	10
32	96	¾	143	22	12	84	25	16	57	162	25	M6	122	13
40	120	¾	173	26	15	99	26	26	69	184	45	M8	140	15
50	150	¾	214	32	15	119	36	26	88	210	45	M8	160	19
63	150	¾	226	39	15	132	36	26	88	248	45	M8	190	23

d (mm)	closest inch (inch)
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
Unions with butt fusion spigots SDR11 metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	10*	125	167 624 112	0.534	167 624 162	0.564
25	20	¾	10	10*	271	167 624 113	0.975	167 624 163	1.094
32	25	1	10	10*	481	167 624 114	1.679	167 624 164	1.287
40	32	1 ¼	10	10*	759	167 624 115	2.656	167 624 165	2.098
50	40	1 ½	10	10*	1263	167 624 116	3.470	167 624 166	3.601
63	50	2	6	6*	1728	167 624 117	5.087	167 624 167	4.342

d (mm)	PTFE/ EPDM* Code	Weight (kg)	PTFE/FKM* Code	Weight (kg)
20	167 624 132	0.533	167 624 152	0.533
25	167 624 133	0.971	167 624 153	0.971
32	167 624 134	1.698	167 624 154	1.698
40	167 624 135	2.682	167 624 155	2.682
50	167 624 136	4.378	167 624 156	4.378
63	167 624 137	4.076	167 624 157	4.076

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	⅝	101	14	12	60	24	16	43	196	25	M6	1.9	7
25	96	⅝	132	18	12	73	25	16	57	221	25	M6	2.3	10
32	96	⅝	143	22	12	84	25	16	57	234	25	M6	2.9	13
40	120	⅝	173	26	15	99	26	26	69	260	45	M8	3.7	15
50	150	⅝	214	32	15	119	36	26	88	284	45	M8	4.6	19
63	150	⅝	226	39	15	132	36	26	88	321	45	M8	5.8	23

d (mm)	closest inch (inch)
20	⅝
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
Unions with fusion sockets metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

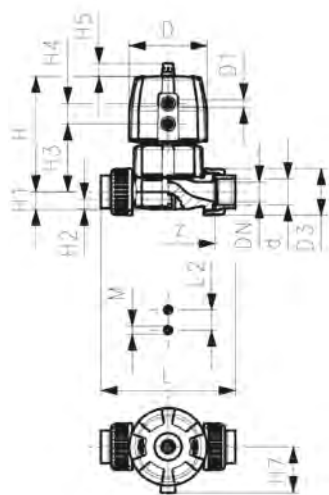
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 644 012	0.469	167 644 032	0.515
25	20	¾	10	10*	271	167 644 013	0.908	167 644 033	0.920
32	25	1	10	10*	481	167 644 014	1.070	167 644 034	1.079
40	32	1 ¼	10	10*	759	167 644 015	1.706	167 644 035	1.726
50	40	1 ½	10	10*	1263	167 644 016	3.503	167 644 036	3.533
63	50	2	10	10*	1728	167 644 017	4.238	167 644 037	4.266

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M (mm)	z (mm)	Lift = Hx (mm)
20	68	¾	101	14	12	60	24	16	43	128	25	M6	96	7
25	96	¾	132	18	12	73	25	16	57	150	25	M6	114	10
32	96	¾	143	22	12	84	25	16	57	162	25	M6	122	13
40	120	¾	173	26	15	99	26	26	69	184	45	M8	140	15
50	150	¾	214	32	15	119	36	26	88	210	45	M8	160	19
63	150	¾	226	39	15	132	36	26	88	248	45	M8	190	23

d (mm)	closest inch (inch)
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
Unions with butt fusion spigots SDR11 metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

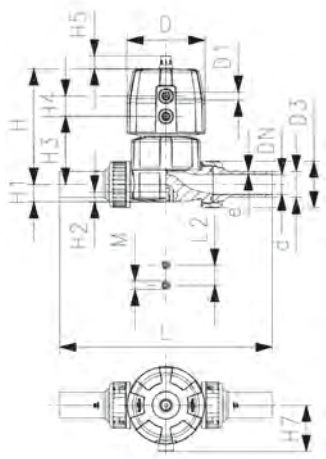
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM



d	DN	Size	PN	PN*	kv-value	EPDM	Weight	PTFE/	Weight
(mm)	(mm)	(inch)	(bar)	(bar)	(Δp=1 bar)	Code	(kg)	EPDM*	(kg)
					(l/min)			Code	
20	15	½	10	10*	125	167 644 112	0.477	167 644 132	0.510
25	20	¾	10	10*	271	167 644 113	0.920	167 644 133	0.932
32	25	1	10	10*	481	167 644 114	0.954	167 644 134	1.482
40	32	1 ¼	10	10*	759	167 644 115	1.738	167 644 135	1.647
50	40	1 ½	10	10*	1263	167 644 116	2.814	167 644 136	3.541
63	50	2	10	10*	1728	167 644 117	4.413	167 644 137	3.426

d	D	D1_G	H	H1	H2	H3	H4	H5	H7	L	L2	M	e	Lift =
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Hx
														(mm)
20	68	⅝	101	14	12	60	24	16	43	196	25	M6	1.9	7
25	96	⅝	132	18	12	73	25	16	57	221	25	M6	2.3	10
32	96	⅝	143	22	12	84	25	16	57	234	25	M6	2.9	13
40	120	⅝	173	26	15	99	26	26	69	260	45	M8	3.7	15
50	150	¾	214	32	15	119	36	26	69	284	45	M8	4.6	19
63	150	¾	226	39	15	132	36	26	69	321	45	M8	5.8	23

d	closest
(mm)	inch
	(inch)
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With socket fusion spigots metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

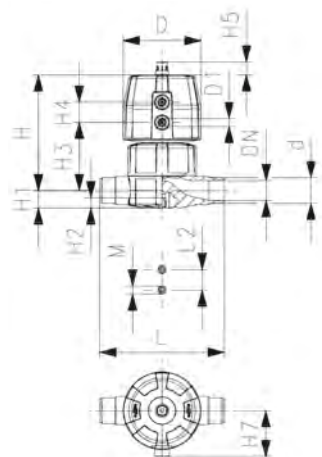
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

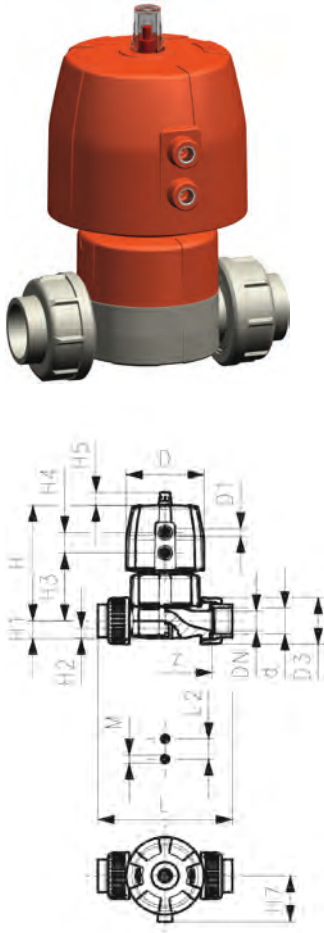
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 645 012	0.442	167 645 032	0.452
25	20	¾	10	10*	271	167 645 013	0.805	167 645 033	0.816
32	25	1	10	10*	481	167 645 014	0.956	167 645 034	0.976
40	32	1 ¼	10	10*	759	167 645 015	1.537	167 645 035	1.557
50	40	1 ½	10	10*	1263	167 645 016	3.255	167 645 036	3.285
63	50	2	10	10*	1728	167 645 017	3.812	167 645 037	3.840

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	¾	101	14	12	60	24	16	43	124	25	M6	1.9	7
25	96	¾	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	96	¾	143	22	12	84	25	16	57	154	25	M6	2.9	13
40	120	¾	173	26	15	99	26	26	69	174	45	M8	3.7	15
50	150	¾	214	32	15	119	36	26	88	194	45	M8	4.6	19
63	150	¾	226	39	15	132	36	26	88	224	45	M8	5.8	23

d (mm)	closest inch (inch)
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR Ten
DA (Double acting)
Unions with fusion sockets metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 654 012	0.474	167 654 032	0.499
25	20	¾	10	10*	271	167 654 013	0.872	167 654 033	0.884
32	25	1	10	10*	481	167 654 014	1.057	167 654 034	1.077
40	32	1 ¼	10	10*	759	167 654 015	1.806	167 654 035	1.666
50	40	1 ½	10	10*	1263	167 654 016	2.954	167 654 036	2.783
63	50	2	10	10*	1728	167 654 017	3.516	167 654 037	3.516

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M (mm)	z (mm)	Lift = Hx (mm)
20	68	⅝	101	14	12	60	24	16	43	128	25	M6	96	7
25	96	⅝	132	18	12	73	25	16	57	150	25	M6	114	10
32	96	⅝	143	22	12	84	25	16	57	162	25	M6	122	13
40	120	⅝	173	26	15	99	26	26	69	184	45	M8	140	15
50	150	⅝	214	32	15	119	36	26	88	210	45	M8	160	19
63	150	⅝	226	39	15	132	36	26	88	248	45	M8	190	23

d (mm)	closest inch (inch)
20	⅝
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR Ten
DA (Double acting)
Unions with butt fusion spigots SDR11 metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

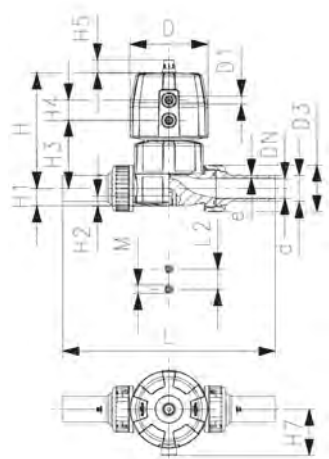
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

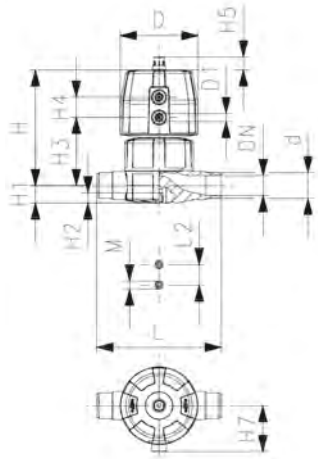
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 654 112	0.498	167 654 132	0.507
25	20	¾	10	10*	271	167 654 113	0.884	167 654 133	0.896
32	25	1	10	10*	481	167 654 114	1.077	167 654 134	1.097
40	32	1 ¼	10	10*	759	167 654 115	1.678	167 654 135	1.698
50	40	1 ½	10	10*	1263	167 654 116	2.761	167 654 136	2.791
63	50	2	10	10*	1728	167 654 117	3.502	167 654 137	3.530

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M (mm)	e (mm)	Lift = Hx (mm)
20	68	⅝	101	14	12	60	24	16	43	196	25	M6	1.9	7
25	96	⅞	132	18	12	73	25	16	57	221	25	M6	2.3	10
32	96	⅞	143	22	12	84	25	16	57	234	25	M6	2.9	13
40	120	⅞	173	26	15	99	26	26	69	260	45	M8	3.7	15
50	150	⅞	214	32	15	119	36	26	69	284	45	M8	4.6	19
63	150	⅞	226	39	15	132	36	26	69	321	45	M8	5.8	23

d (mm)	closest inch (inch)
20	⅝
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR Ten
DA (Double acting)
With socket fusion spigots metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 655 012	0.426	167 655 032	0.436
25	20		10	10*	271	167 655 013	0.768	167 655 033	0.780
32	25		10	10*	481	167 655 014	0.925	167 655 034	0.946
40	32		10	10*	759	167 655 015	1.477	167 655 035	1.497
50	40		10	10*	1263	167 655 016	2.505	167 655 036	2.535
63	50		10	10*	1728	167 655 017	3.062	167 655 037	3.090

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	e (mm)
20	68	⅞	101	14	12	60	24	16	43	124	25	M6	7	1.9
25	96	⅞	132	18	12	73	25	16	57	144	25	M6	10	2.3
32	96	⅞	143	22	12	84	25	16	57	154	25	M6	13	2.9
40	120	⅞	173	26	15	99	26	26	69	174	45	M8	15	3.7
50	150	⅞	214	32	15	119	36	26	88	194	45	M8	19	4.6
63	150	⅞	226	39	15	132	36	26	88	224	45	M8	23	5.8

d (mm)	closest inch (inch)
20	⅞
25	⅞
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR Ten
DA (Double acting)
With butt fusion spigots SDR11 metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

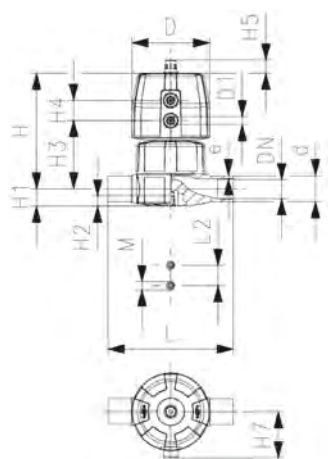
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 655 112	0.425	167 655 132	0.435
25	20	¾	10	10*	271	167 655 113	0.765	167 655 133	0.776
32	25	1	10	10*	481	167 655 114	0.924	167 655 134	0.944
40	32	1 ¼	10	10*	759	167 655 115	1.473	167 655 135	1.493
50	40	1 ½	10	10*	1263	167 655 116	2.500	167 655 136	2.530
63	50	2	10	10*	1728	167 655 117	3.059	167 655 137	3.087

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	¾	101	14	12	60	24	16	43	124	25	M6	1.9	7
25	96	¾	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	96	¾	143	22	12	84	25	16	57	154	25	M6	2.9	13
40	120	¾	173	26	15	99	26	26	69	174	45	M8	3.7	15
50	150	¾	214	32	15	119	36	26	88	194	45	M8	4.6	19
63	150	¾	226	39	15	132	36	26	88	224	45	M8	5.8	23

d (mm)	closest inch (inch)
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR Ten
DA (Double acting)
With backing flanges PP-V metric/BS**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

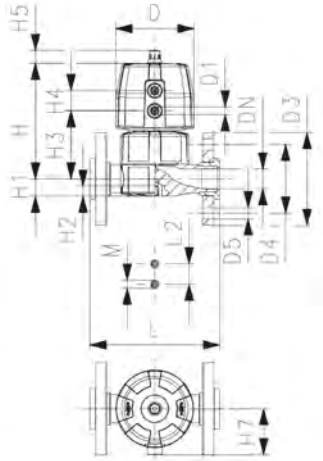
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 657 112	0.608	167 657 132	0.618
25	20	¾	10	10*	271	167 657 113	1.013	167 657 133	1.024
32	25	1	10	10*	481	167 657 114	1.272	167 657 134	1.292
40	32	1 ¼	10	10*	759	167 657 115	2.009	167 657 135	2.029
50	40	1 ½	10	10*	1263	167 657 116	3.049	167 657 136	3.079
63	50	2	10	10*	1728	167 657 117	4.002	167 657 137	4.030

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
20	68	¾	95	65	14	101	14	12	60	24	16	57	130	25	M6
25	96	¾	105	75	14	132	18	12	73	25	16	57	150	25	M6
32	96	¾	115	85	14	143	22	12	84	25	16	69	160	25	M6
40	120	¾	140	100	18	173	26	15	99	26	26	88	180	45	M8
50	150	¾	150	110	18	214	32	15	119	36	26	103	200	45	M8
63	150	¾	165	125	18	226	39	15	132	36	26	103	230	45	M8

d (mm)	Lift = Hx (mm)	closest inch (inch)
20	7	½
25	10	¾
32	13	1
40	15	1 ¼
50	19	1 ½
63	23	2



PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

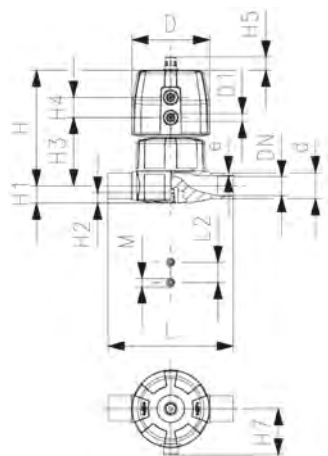
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 645 112	0.441	167 645 132	0.451
25	20	¾	10	10*	271	167 645 113	0.801	167 645 133	0.812
32	25	1	10	10*	481	167 645 114	0.954	167 645 134	0.974
40	32	1 ¼	10	10*	759	167 645 115	1.533	167 645 135	1.553
50	40	1 ½	10	10*	1263	167 645 116	3.250	167 645 136	3.280
63	50	2	10	10*	1728	167 645 117	3.809	167 645 137	3.837

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	¾	101	14	12	60	24	16	43	124	25	M6	1.9	7
25	96	¾	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	96	¾	143	22	12	84	25	16	57	154	25	M6	2.9	13
40	120	¾	173	26	15	99	26	26	69	174	45	M8	3.7	15
50	150	¾	214	32	15	119	36	26	88	194	45	M8	4.6	19
63	150	¾	226	39	15	132	36	26	88	224	45	M8	5.8	23

d (mm)	closest inch (inch)
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With backing flanges PP-V metric/BS**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

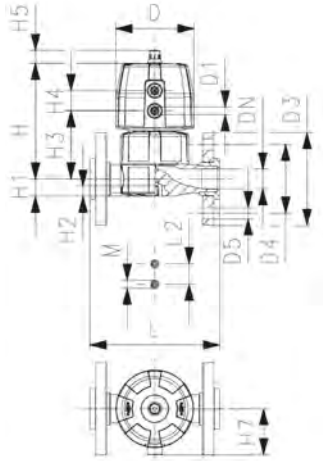
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

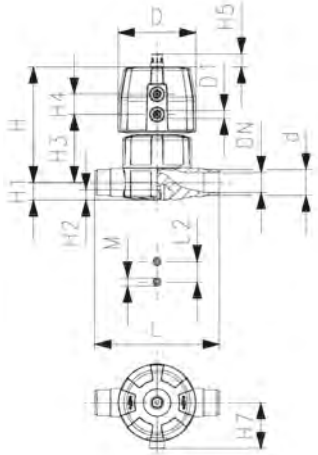
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 647 112	0.624	167 647 132	0.634
25	20	¾	10	10*	271	167 647 113	1.049	167 647 133	1.060
32	25	1	10	10*	481	167 647 114	1.302	167 647 134	1.322
40	32	1 ¼	10	10*	759	167 647 115	2.069	167 647 135	2.089
50	40	1 ½	10	10*	1263	167 647 116	3.799	167 647 136	3.829
63	50	2	10	10*	1728	167 647 117	4.752	167 647 137	4.780

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
20	68	⅞	95	65	14	101	14	12	60	24	16	57	130	25	M6
25	96	⅞	105	75	14	132	18	12	73	25	16	57	150	25	M6
32	96	⅞	115	85	14	143	22	12	84	25	16	69	160	25	M6
40	120	⅞	140	100	18	173	26	15	99	26	26	88	180	45	M8
50	150	⅞	150	110	18	214	32	15	119	36	26	103	200	45	M8
63	150	⅞	165	125	18	226	39	15	132	36	26	103	230	45	M8

d (mm)	Lift = Hx (mm)	closest inch (inch)
20	7	½
25	10	¾
32	13	1
40	15	1 ¼
50	19	1 ½
63	23	2



PROGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close)
With socket fusion spigots metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

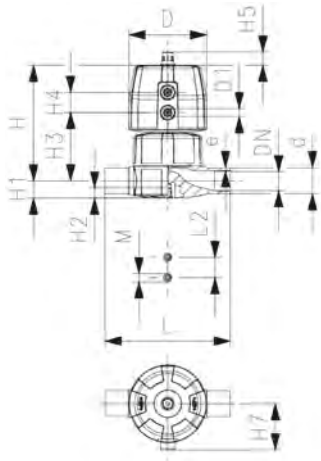
Working Pressure: **one side**

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 625 012	0.461	167 625 032	0.502
25	20	¾	10	10*	271	167 625 013	0.968	167 625 033	0.990
32	25	1	10	10*	481	167 625 014	1.146	167 625 034	1.156
40	32	1 ¼	10	10*	759	167 625 015	1.897	167 625 035	1.917
50	40	1 ½	10	10*	1263	167 625 016	3.345	167 625 036	3.375
63	50	2	6	6*	1728	167 625 017	4.006	167 625 037	4.054

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	¾	101	14	12	60	24	16	43	124	25	M6	1.9	7
25	96	¾	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	96	¾	143	22	12	84	25	16	57	154	25	M6	2.9	13
40	120	¾	173	26	15	99	26	26	69	174	45	M8	3.7	15
50	150	¾	214	32	15	119	36	26	88	194	45	M8	4.6	19
63	150	¾	226	39	15	132	36	26	88	224	45	M8	5.8	23

d (mm)	closest inch (inch)
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
With butt fusion spigots SDR11 metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 625 112	0.491	167 625 132	0.501
25	20	¾	10	10*	271	167 625 113	0.975	167 625 133	0.986
32	25	1	10	10*	481	167 625 114	1.134	167 625 134	1.154
40	32	1 ¼	10	10*	759	167 625 115	1.893	167 625 135	1.913
50	40	1 ½	10	10*	1263	167 625 116	3.340	167 625 136	3.370
63	50	2	10	6*	1728	167 625 117	3.899	167 625 137	3.927

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	68	¾	101	14	12	60	24	16	43	124	25	M6	7	½
25	96	¾	132	18	12	73	25	16	57	144	25	M6	10	¾
32	96	¾	143	22	12	84	25	16	57	154	25	M6	13	1
40	120	¾	173	26	15	99	26	26	69	174	45	M8	15	1 ¼
50	150	¾	214	32	15	119	36	26	88	194	45	M8	19	1 ½
63	150	¾	226	39	15	132	36	26	88	224	45	M8	23	2



**PROGEF Standard Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
With backing flanges PP-V metric/BS**

Model:

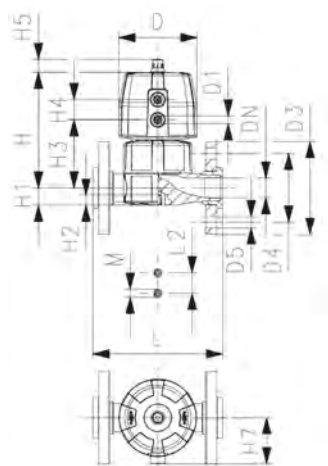
- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (L/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	10*	125	167 627 112	0.674	167 627 162	0.674
25	20	¾	10	10*	271	167 627 113	1.223	167 627 163	1.223
32	25	1	10	10*	481	167 627 114	1.482	167 627 164	1.482
40	32	1 ¼	10	10*	759	167 627 115	2.554	167 627 165	2.429
50	40	1 ½	10	10*	1263	167 627 116	3.889	167 627 166	3.889
63	50	2	6	6*	1728	167 627 117	4.918	167 627 167	4.842

d (mm)	DN (mm)	PTFE/ EPDM* Code	Weight (kg)	PTFE/FKM* Code	Weight (kg)
20	15	167 627 132	0.684	167 627 152	0.684
25	20	167 627 133	1.234	167 627 153	1.234
32	25	167 627 134	1.526	167 627 154	1.526
40	32	167 627 135	2.562	800 057 812	3.760
50	40	167 627 136	3.919	167 627 156	3.919
63	50	167 627 137	4.952	800 063 747	7.800

d (mm)	DN (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)
20	15	68	¾	95	65	14	101	14	12	60	24	16	43	130	25
25	20	96	¾	105	75	14	132	18	12	73	25	16	57	150	25
32	25	96	¾	115	85	14	143	22	12	84	25	16	69	160	25
40	32	120	¾	140	100	18	173	26	15	99	26	26	69	180	45
50	40	150	¾	150	110	18	193	32	15	119	36	26	88	200	45
63	50	150	¾	165	125	18	205	39	15	132	36	26	88	230	45

d (mm)	DN (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	15	M6	7	½
25	20	M6	10	¾
32	25	M6	13	1
40	32	M8	15	1 ¼
50	40	M8	19	1 ½
63	50	M8	23	2

Diaphragm valves pneumatic DIASTAR TenPlus



PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
Unions with fusion sockets metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

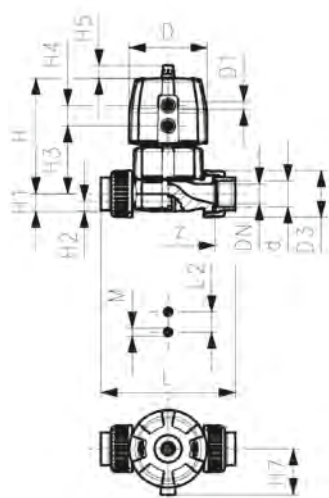
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **both sides**

* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	10*	125	167 684 012	0.958	167 684 062	0.958
25	20	¾	10	10*	271	167 684 013	1.082	167 684 063	1.082
32	25	1	10	10*	481	167 684 014	1.970	167 684 064	1.970
40	32	1 ¼	10	10*	759	167 684 015	3.136	167 684 065	3.136
50	40	1 ½	10	10*	1263	167 684 016	4.784	167 684 066	4.784
63	50	2	10	10*	1728	167 684 017	6.076	167 684 067	6.076

d (mm)	PTFE/ EPDM* Code	Weight (kg)	PTFE/FKM* Code	Weight (kg)
20	167 684 032	0.958	167 684 052	0.958
25	167 684 033	1.094	167 684 053	1.094
32	167 684 034	1.881	167 684 054	1.881
40	167 684 035	3.156	167 684 055	3.156
50	167 684 036	4.827	167 684 056	4.827
63	167 684 037	5.763	167 684 057	5.763

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
20	96	¾	127	14	12	68	25	16	57	128	25	M6	96	7
25	96	¾	132	18	12	73	25	16	57	150	25	M6	114	10
32	120	¾	167	22	12	93	26	26	69	162	25	M6	122	13
40	150	¾	196	26	15	101	36	26	88	184	45	M8	140	15
50	180	¾	239	32	15	124	37	26	103	210	45	M8	160	19
63	180	¾	251	39	15	137	37	26	103	248	45	M8	190	23

d (mm)	closest inch (inch)
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
Unions with butt fusion spigots SDR11 metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

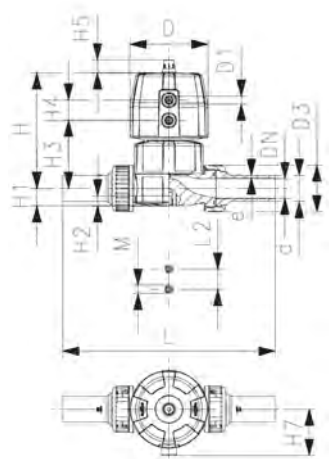
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **both sides**

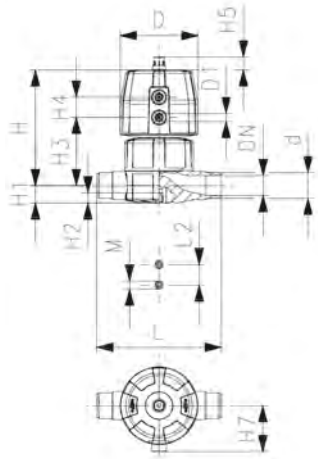
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 684 112	0.966	167 684 132	0.969
25	20	¾	10	10*	271	167 684 113	1.094	167 684 133	1.106
32	25	1	10	10*	481	167 684 114	1.859	167 684 134	1.870
40	32	1 ¼	10	10*	759	167 684 115	3.168	167 684 135	3.188
50	40	1 ½	10	10*	1263	167 684 116	5.009	167 684 136	5.039
63	50	2	10	10*	1728	167 684 117	5.964	167 684 137	5.777

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M (mm)	e (mm)	Lift = Hx (mm)
20	96	¾	127	14	12	68	25	16	57	196	25	M6	1.9	7
25	96	¾	132	18	12	73	25	16	57	221	25	M6	2.3	10
32	120	½	167	22	12	93	26	26	69	234	25	M6	2.9	13
40	150	¼	196	26	15	101	36	26	88	260	45	M8	3.7	15
50	180	¼	239	32	15	124	37	26	103	284	45	M8	4.6	19
63	180	¼	251	39	15	137	37	26	103	321	45	M8	5.8	23

d (mm)	closest inch (inch)
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
With socket fusion spigots metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Overall length EN 558
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

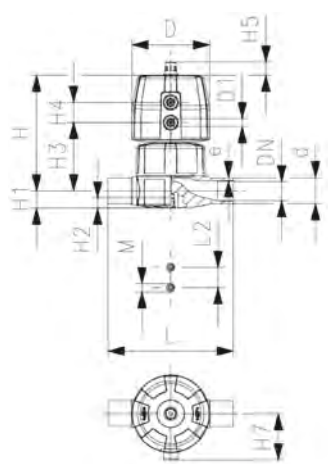
Working Pressure: **both sides**

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 685 012	0.892	167 685 032	0.902
25	20	¾	10	10*	271	167 685 013	0.979	167 685 033	0.990
32	25	1	10	10*	481	167 685 014	1.730	167 685 034	1.750
40	32	1 ¼	10	10*	759	167 685 015	3.044	167 685 035	2.987
50	40	1 ½	10	10*	1263	167 685 016	4.615	167 685 036	4.650
63	50	2	10	10*	1728	167 685 017	5.309	167 685 037	5.337

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M (mm)	e (mm)	Lift = Hx (mm)
20	96	¾	127	14	12	68	25	16	57	124	25	M6	1.9	7
25	96	¾	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	120	¾	167	22	12	93	26	26	69	154	25	M6	2.9	13
40	150	¾	196	26	15	101	36	26	88	174	45	M8	3.7	15
50	180	¾	239	32	15	124	37	26	103	194	45	M8	4.6	19
63	180	¾	251	39	15	137	37	26	103	224	45	M8	5.8	23

d (mm)	closest inch (inch)
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
With butt fusion spigots SDR11 metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **both sides**

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 685 112	0.891	167 685 132	0.901
25	20	¾	10	10*	271	167 685 113	0.975	167 685 133	0.986
32	25	1	10	10*	481	167 685 114	1.728	167 685 134	1.748
40	32	1 ¼	10	10*	759	167 685 115	2.963	167 685 135	2.983
50	40	1 ½	10	10*	1263	167 685 116	4.748	167 685 136	4.778
63	50	2	10	10*	1728	167 685 117	5.306	167 685 137	5.334

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	96	¾	127	14	12	68	25	16	57	124	25	M6	1.9	7
25	96	¾	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	120	¾	167	22	12	93	26	26	69	154	25	M6	2.9	13
40	150	¾	196	26	15	101	36	26	88	174	45	M8	3.7	15
50	180	¾	239	32	15	124	37	26	103	194	45	M8	4.6	19
63	180	¾	251	39	15	137	37	26	103	224	45	M8	5.8	23

d (mm)	closest inch (inch)
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
With backing flanges PP-V metric/BS**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- For easy installation and removal
- Overall length EN 558
- Short overall length
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

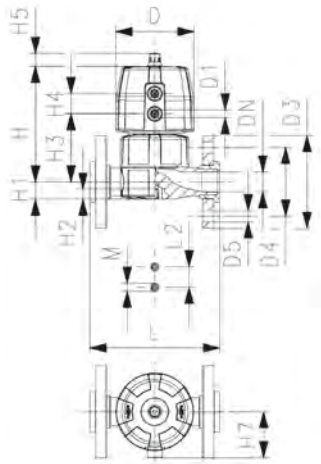
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **both sides**

* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	10*	125	167 687 112	1.074	167 687 162	1.074
25	20	¾	10	10*	271	167 687 113	1.223	167 687 163	1.223
32	25	1	10	10*	481	167 687 114	2.076	167 687 164	2.076
40	32	1 ¼	10	10*	759	167 687 115	3.499	167 687 165	3.499
50	40	1 ½	10	10*	1263	167 687 116	5.297	167 687 166	5.297
63	50	2	10	10*	1728	167 687 117	6.643	167 687 167	6.643

d (mm)	PTFE/ EPDM* Code	Weight (kg)
20	167 687 132	1.103
25	167 687 133	1.276
32	167 687 134	2.096
40	167 687 135	3.350
50	167 687 136	5.327
63	167 687 137	6.678

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
20	96	¾	95	65	14	127	14	12	68	25	16	57	130	25	M6
25	96	¾	105	75	14	132	18	12	73	25	16	57	150	25	M6
32	120	¾	115	85	14	167	22	12	93	26	26	69	160	25	M6
40	150	¾	140	100	18	196	26	15	101	36	26	88	180	45	M8
50	180	¾	150	110	18	239	32	15	124	37	26	103	200	45	M8
63	180	¾	165	125	18	251	39	15	137	37	26	103	230	45	M8

d (mm)	Lift = Hx (mm)	closest inch (inch)
20	7	½
25	10	¾
32	13	1
40	15	1 ¼
50	19	1 ½
63	23	2



**PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
With butt fusion spigots SDR11 metric**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Smallest possible dead space
- For easy installation and removal
- Short overall length

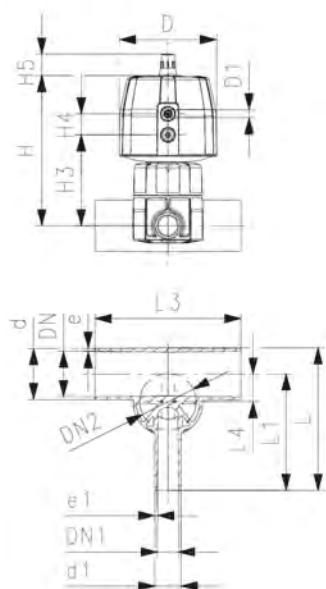
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **both sides**

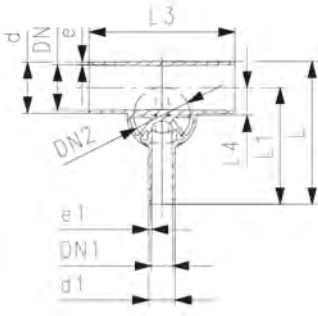
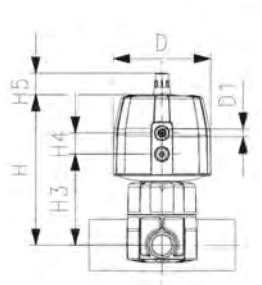
* O-Ring material: FKM



d (mm)	d1 (mm)	DN (mm)	DN1 (mm)	Size (inch)	Valve Size d (mm)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
20	20	15	15	½	20	10	10*	57	167 689 101	0.906
25	20	20	15	¾	25	10	10*	89	167 689 103	0.981
25	25	20	20	¾	25	10	10*	118	167 689 104	0.982
32	20	25	15	1	25	10	10*	80	167 689 107	1.008
32	25	25	20	1	25	10	10*	105	167 689 108	1.010
32	32	25	25	1	32	10	10*	231	167 689 109	1.741
40	20	32	15	1 ¼	32	10	10*	85	167 689 112	1.768
50	20	40	15	1 ½	25	10	10*	86	167 689 118	1.068
50	25	40	20	1 ½	32	10	10*	160	167 689 119	1.814
50	32	40	25	1 ½	32	10	10*	206	167 689 120	1.816
63	20	50	15	2	25	10	10*	84	167 689 125	1.107
63	25	50	20	2	32	10	10*	150	167 689 126	1.857
63	32	50	25	2	32	10	10*	184	167 689 127	1.860

d (mm)	PTFE/ EPDM* Code	Weight (kg)
20	167 689 301	0.916
25	167 689 303	0.992
25	167 689 304	0.993
32	167 689 307	1.019
32	167 689 308	1.021
32	167 689 309	1.761
40	167 689 312	1.788
50	167 689 318	1.079
50	167 689 319	1.834
50	167 689 320	1.836
63	167 689 325	1.119
63	167 689 326	1.877
63	167 689 327	1.880

d (mm)	D (mm)	D1 (inch)	H (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	e1 (mm)
20	96	¾	130	71	25	16	117	96	162	12	1.9	7	15	1.9
25	96	¾	131	72	25	16	133	108	162	16	2.3	10	20	1.9
25	96	¾	131	72	25	16	133	108	162	16	2.3	10	20	2.3
32	96	¾	135	76	25	16	142	120	162	19	2.9	10	20	1.9
32	96	¾	135	76	25	16	142	120	162	19	2.9	10	20	2.3
32	120	¾	167	93	26	26	145	120	160	19	2.9	13	25	2.9
40	120	¾	175	101	26	26	149	128	180	23	3.7	13	25	1.9
50	96	¾	148	90	25	16	160	134	180	27	4.6	10	20	1.9
50	120	¾	180	106	26	26	160	134	180	28	4.6	13	25	2.3



d (mm)	D (mm)	D1 (inch)	H (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	e1 (mm)
50	120	1/8	180	106	26	26	160	134	180	28	4.6	13	25	2.9
63	96	1/8	155	96	25	26	177	144	180	33	5.8	10	20	1.9
63	120	1/8	187	113	26	16	177	144	180	35	5.8	13	25	2.3
63	120	1/8	187	113	26	26	177	144	180	35	5.8	13	25	2.9

Diaphragm valves DIASTAR big dimensions



PROGEF Standard Diaphragm valve type DIASTAR Series 025 FC (Fail safe to close) With fixed flanges PP metric

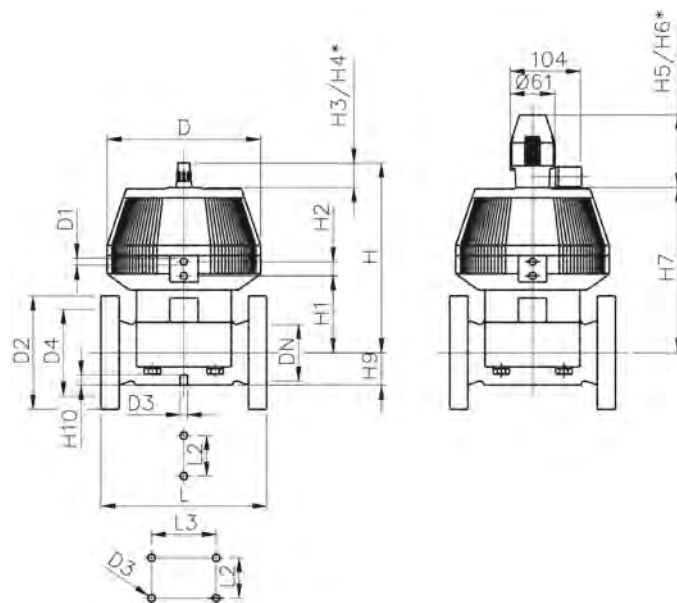
Model:

- Material: PP-H
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

	d	Size	DN	PN	kv-value	EPDM	Weight	PTFE/EPDM	Weight
	(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar) (l/min)	Code	(kg)	Code	(kg)
*	75	2 ½	65	10	992	199 025 267	14.810	199 025 297	14.715
**	90	3	80	10	1700	199 025 268	17.400	199 025 298	16.162
	110	4	100	6	2700	199 025 269	25.523	199 025 299	24.700
**	160	6	150	6	6033	199 025 270	35.000		

	d	D	D1_G	D2	D3[M]	D4	H	H1	H2	H3	H4	H5	H6	H7	H9
	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298	46
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302	57
	110	335	¼	225	12	180	395	176	24	46	100	129	195	349	69
**	160	335	¼	285	12	240	455	237	24	46	100	129	195	409	108

	d	H10	L	L2	L3
	(mm)	(mm)	(mm)	(mm)	(mm)
*	75	15	290	70	
**	90	15	310	120	
	110	20	350	120	
**	160	20	480	100	200





PROGEF Standard Diaphragm valve type DIASTAR
Series 025 FO (Fail safe to open)
With fixed flanges PP metric

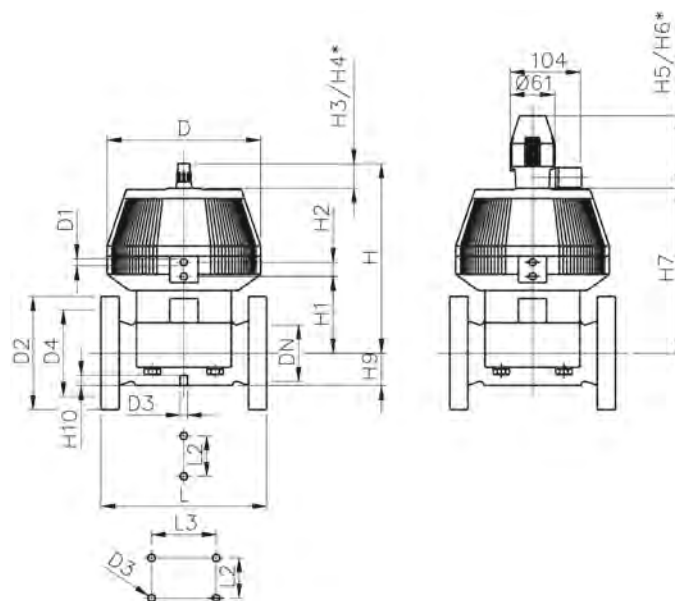
Model:

- Material: PP-H
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

	d	Size	DN	PN	kv-value	EPDM	Weight	PTFE/EPDM	Weight
	(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
					(l/min)				
*	75	2 ½	65	10	992	199 025 277	13.110	199 025 307	13.600
**	90	3	80	10	1700	199 025 278	17.400	199 025 308	17.400
	110	4	100	6	2700	199 025 279	19.700	199 025 309	24.700
	160	6	150	6	6033	199 025 280	35.000	199 025 310	35.000

	d	D	D1_G	D2	D3[M]	D4	H	H1	H2	H3	H4	H5	H6	H7	H9
	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298	46
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302	57
	110	335	¼	225	12	180	395	176	24	46	100	129	195	349	69
	160	335	¼	285	12	240	455	237	24	46	100	129	195	409	108

	d	H10	L	L2	L3
	(mm)	(mm)	(mm)	(mm)	(mm)
*	75	15	290	70	
**	90	15	310	120	
	110	20	350	120	
**	160	20	480	100	200





PROGEF Standard Diaphragm valve type DIASTAR
Series 025 DA (Double acting)
With fixed flanges PP metric

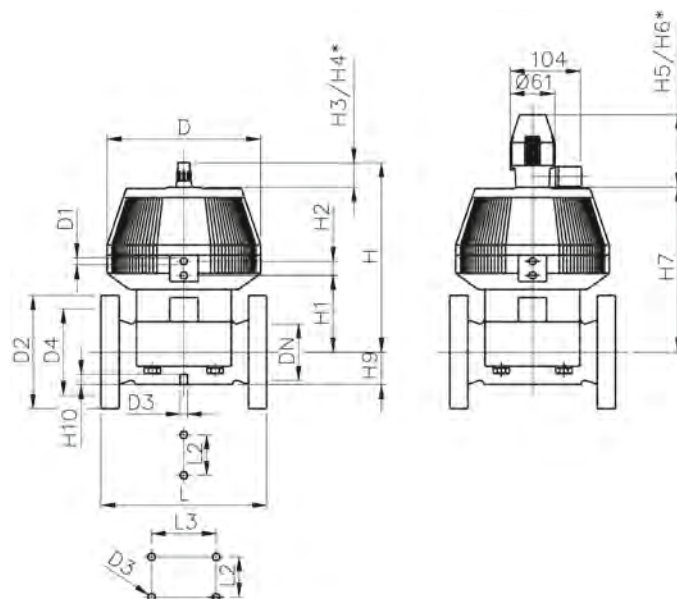
Model:

- Material: PP-H
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

	d	Size	DN	PN	kv-value	EPDM	Weight	PTFE/EPDM	Weight
	(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
					(L/min)				
*	75	2 ½	65	10	992	199 025 287	12.096	199 025 317	13.600
**	90	3	80	10	1700	199 025 288	13.145	199 025 318	17.400
	110	4	100	6	2700	199 025 289	23.941	199 025 319	24.700
**	160	6	150	6	6033	199 025 290	35.000	199 025 320	35.000

	d	D	D1_G	D2	D3[M]	D4	H	H1	H2	H3	H4	H5	H6	H7	H9
	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298	46
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302	57
	110	335	¼	225	12	180	395	176	24	46	100	129	195	349	69
**	160	335	¼	285	12	240	455	237	24	46	100	129	195	409	108

	d	H10	L	L2	L3
	(mm)	(mm)	(mm)	(mm)	(mm)
*	75	15	290	70	
**	90	15	310	120	
	110	20	350	120	
**	160	20	480	100	200



Pressure regulating valves type 586



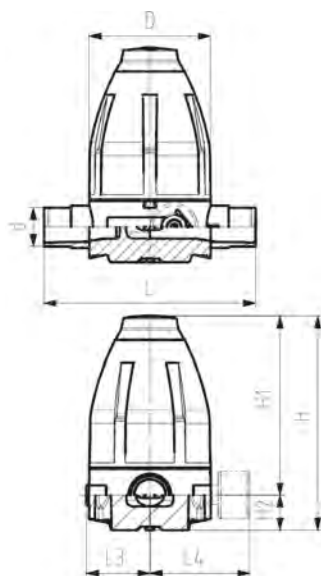
PROGEF Standard Pressure retaining valve type 586 With butt fusion spigots SDR11 metric Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d (mm)	DN (mm)	Size (inch)	SDR	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	11	10	167 586 002	0.550	167 586 012
25	20	¾	11	10	167 586 003	1.260	167 586 013
32	25	1	11	10	167 586 004	1.260	167 586 014
40	32	1 ¼	11	10	167 586 005	3.460	167 586 015
50	40	1 ½	11	10	167 586 006	3.470	167 586 016
63	50	2	11	10	167 586 007	3.540	167 586 017

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	M	closest inch (inch)
20	79	132	111	21	14	150	42	M6	½
25	100	177	148	29	14	190	53	M6	¾
32	100	177	148	29	14	190	53	M6	1
40	147	251	207	44	21	240	76	M8	1 ¼
50	147	251	207	44	21	240	76	M8	1 ½
63	147	251	207	44	21	260	76	M8	2



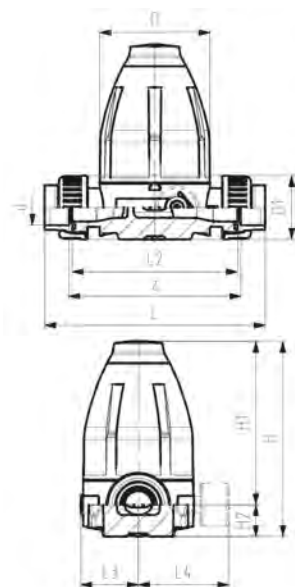
PROGEF Standard Pressure retaining valve type 586
Unions with fusion sockets metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	10	167 586 102	0.635	167 586 112
25	20	¾	10	167 586 103	1.310	167 586 113
32	25	1	10	167 586 104	1.330	167 586 114
40	32	1 ¼	10	167 586 105	3.610	167 586 115
50	40	1 ½	10	167 586 106	3.660	167 586 116
63	50	2	10	167 586 107	3.810	167 586 117

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	closest inch (inch)
20	79	48	132	111	21	12	158	120	42	M6	126	½
25	100	58	177	148	29	14	192	150	53	M6	156	¾
32	100	65	177	148	29	14	196	150	53	M6	156	1
40	147	77	251	207	44	21	255	205	76	M8	211	1 ¼
50	147	84	251	207	44	21	261	205	76	M8	211	1 ½
63	147	111	251	207	44	21	269	205	76	M8	211	2



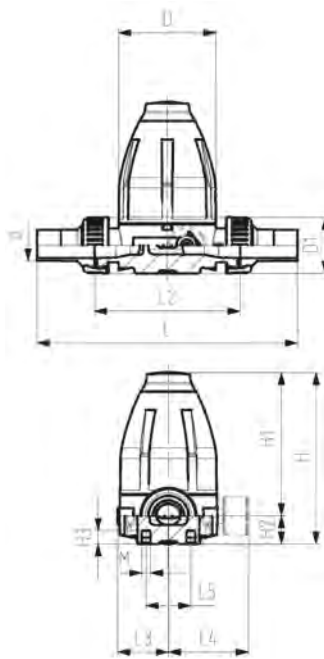
PROGEF Standard Pressure retaining valve type 586
Unions with butt fusion spigots SDR11 metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d (mm)	DN (mm)	Size (inch)	SDR	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	11	10	167 586 502	0.630	167 586 512
25	20	¾	11	10	167 586 503	1.350	167 586 513
32	25	1	11	10	167 586 504	1.370	167 586 514
40	32	1 ¼	11	10	167 586 505	3.650	167 586 515
50	40	1 ½	11	10	167 586 506	3.700	167 586 516
63	50	2	11	10	167 586 507	3.850	167 586 517

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	closest inch (inch)
20	79	48	132	111	21	12	228	120	42	M6	½
25	100	58	177	148	29	14	264	150	53	M6	¾
32	100	65	177	148	29	14	270	150	53	M6	1
40	147	77	251	207	44	21	331	205	76	M8	1 ¼
50	147	84	251	207	44	21	337	205	76	M8	1 ½
63	147	111	251	207	44	21	343	205	76	M8	2



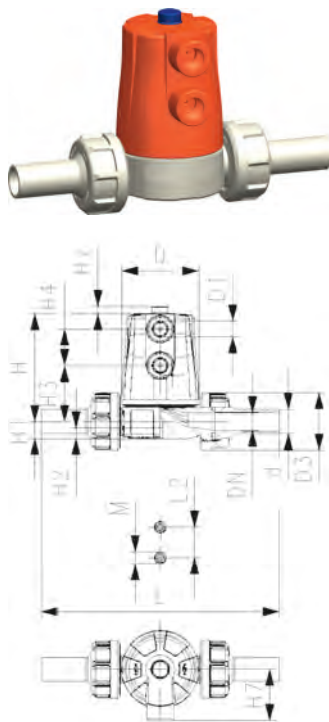
PROGEF Standard Pressure retaining valve type V86
With butt fusion spigots IR metric

Model:

- Material: PP-H

d (mm)	DN (mm)	Size (inch)	PN (bar)	Type	EPDM Code	Weight (kg)	PTFE Code	Weight (kg)
75	65	2 ½	6	V86	199 041 471	5.900	199 041 476	5.900
90	80	3	6	V86	199 041 473	12.900	199 041 478	12.900
110	100	4	4	V86	199 041 474	14.500	199 041 479	14.500

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	Pressure setting range (bar)	closest inch (inch)
75	180	275	230	284	1.0 - 6.0	2 ½
90	250	410	320	360	1.0 - 6.0	3
110	250	485	415	380	1.0 - 4.0	4



PROGEF Standard Diaphragm valve type 604 Unions with butt fusion spigot metric

Model:

- Material: PP-H
- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

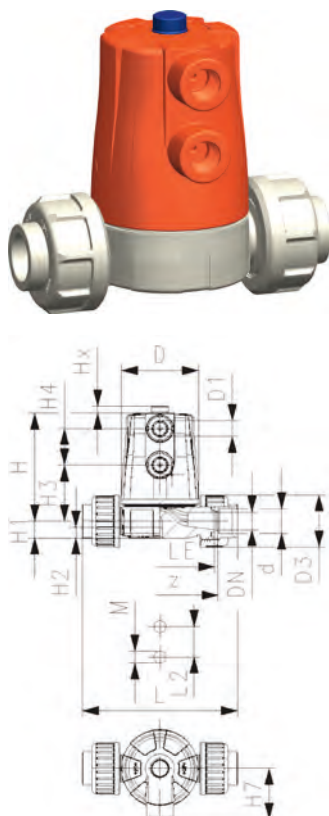
- Individual configuration of the valve

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	Actuator	EPDM Code	FKM Code	Weight (kg)
20	15	½	6	125	FC	167 604 112	167 604 162	0.35
20	15	½	6	125	FO	167 604 114	167 604 164	0.32
20	15	½	6	125	DA	167 604 115	167 604 165	0.30

d (mm)	PTFE/ EPDM* Code
20	167 604 132
20	167 604 134
20	167 604 135

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
20	65	¼	48	89	14	12	46	30	42	196	25	M6	100	6
20	65	¼	48	89	14	12	46	30	42	196	25	M6	100	6
20	65	¼	48	89	14	12	46	30	42	196	25	M6	100	6



PROGEF Standard Diaphragm valve type 604 Unions with fusion socket metric

Model:

- Material: PP-H
- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

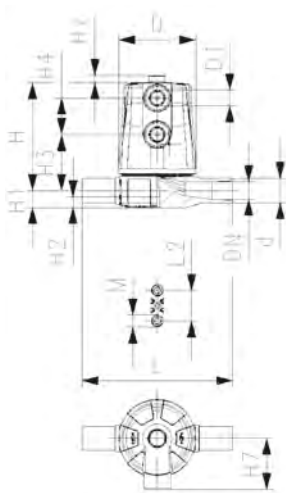
- Individual configuration of the valve

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	Actuator	EPDM Code	FKM Code	Weight (kg)
20	15	½	6	125	FC	167 604 012	167 604 062	0.35
20	15	½	6	125	FO	167 604 014	167 604 064	0.32
20	15	½	6	125	DA	167 604 015	167 604 065	0.30

d (mm)	PTFE/ EPDM* Code
20	167 604 032
20	167 604 034
20	167 604 035

d	D	D1_G	D3	H	H1	H2	H3	H4	H7	L	L2	M	z	Lift = Hx	LE
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	(mm)
20	65	¼	48	89	14	12	46	30	42	128	25	M6	96	6	90
20	65	¼	48	89	14	12	46	30	42	128	25	M6	96	6	90
20	65	¼	48	89	14	12	46	30	42	128	25	M6	96	6	90



PROGEF Standard Diaphragm valve type 605 With butt fusion spigot metric

Model:

- Material: PP-H
- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve

* O-Ring material: FKM

d	DN	Size	PN	kv-value ($\Delta p=1$ bar)	Actuator	EPDM Code	FKM Code	Weight (kg)
(mm)	(mm)	(inch)	(bar)	(L/min)				
20	15	½	6	125	FC	167 605 112	167 605 162	0.31
20	15	½	6	125	FO	167 605 114	167 605 164	0.28
20	15	½	6	125	DA	167 605 115	167 605 165	0.26

d (mm)	PTFE/ EPDM* Code
20	167 605 132
20	167 605 134
20	167 605 135

d	D	D1_G	H	H1	H2	H3	H4	H7	L	L2	e	M	z	Lift = Hx
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
20	65	¼	89	14	12	46	30	42	124	25	1.9	M6	100	6
20	65	¼	89	14	12	46	30	42	124	25	1.9	M6	100	6
20	65	¼	89	14	12	46	30	42	124	25	1.9	M6	100	6

Pressure regulating valves type 582



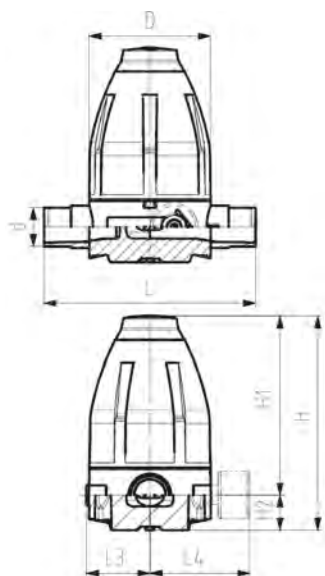
PROGEF Standard Pressure reducing valve type 582 With butt fusion spigots SDR11 metric Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d (mm)	DN (mm)	Size (inch)	SDR	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	11	10	167 582 002	0.560	167 582 012
25	20	¾	11	10	167 582 003	1.250	167 582 013
32	25	1	11	10	167 582 004	1.250	167 582 014
40	32	1 ¼	11	10	167 582 005	3.450	167 582 015
50	40	1 ½	11	10	167 582 006	3.460	167 582 016
63	50	2	11	10	167 582 007	3.520	167 582 017

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	M	closest inch (inch)
20	79	132	111	21	14	150	42	M6	½
25	100	177	148	29	14	190	53	M6	¾
32	100	177	148	29	14	190	53	M6	1
40	147	251	207	44	21	240	76	M8	1 ¼
50	147	251	207	44	21	240	76	M8	1 ½
63	147	251	207	44	21	260	76	M8	2



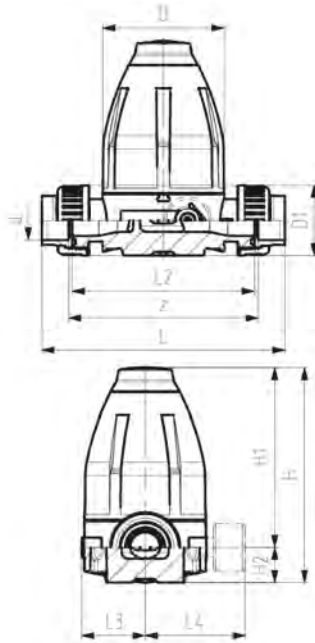
PROGEF Standard Pressure reducing valve type 582
Unions with fusion sockets metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	10	167 582 102	0.600	167 582 112
25	20	¾	10	167 582 103	1.300	167 582 113
32	25	1	10	167 582 104	1.320	167 582 114
40	32	1 ¼	10	167 582 105	3.530	167 582 115
50	40	1 ½	10	167 582 106	3.650	167 582 116
63	50	2	10	167 582 107	3.800	167 582 117

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	closest inch (inch)
20	79	48	132	111	21	12	158	120	42	M6	126	½
25	100	58	177	148	29	14	192	150	53	M6	156	¾
32	100	65	177	148	29	14	196	150	53	M6	156	1
40	147	77	251	207	44	21	255	205	76	M8	211	1 ¼
50	147	84	251	207	44	21	261	205	76	M8	211	1 ½
63	147	111	251	207	44	21	269	205	76	M8	211	2



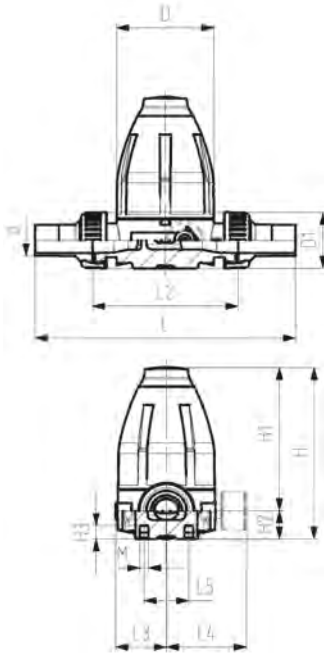
PROGEF Standard Pressure reducing valve type 582
Unions with butt fusion spigots SDR11 metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d (mm)	DN (mm)	Size (inch)	SDR	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	11	10	167 582 502	0.640	167 582 512
25	20	¾	11	10	167 582 503	1.350	167 582 513
32	25	1	11	10	167 582 504	1.370	167 582 514
40	32	1 ¼	11	10	167 582 505	3.660	167 582 515
50	40	1 ½	11	10	167 582 506	3.710	167 582 516
63	50	2	11	10	167 582 507	3.860	167 582 517

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	closest inch (inch)
20	79	48	132	111	21	12	228	120	42	M6	½
25	100	58	177	148	29	14	264	150	53	M6	¾
32	100	65	177	148	29	14	270	150	53	M6	1
40	147	77	251	207	44	21	331	205	76	M8	1 ¼
50	147	84	251	207	44	21	337	205	76	M8	1 ½
63	147	111	251	207	44	21	343	205	76	M8	2

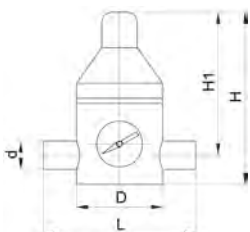


PROGEF Standard Pressure reducing valve type V82
With fusion spigots metric

Model:

- Material: PP-H

d (mm)	DN (mm)	Size (inch)	PN (bar)	Type	EPDM Code	Weight (kg)
75	65	2 ½	6	V82	199 041 039	7.900
90	80	3	6	V82	199 041 040	12.900
110	100	4	4	V82	199 041 041	23.300



d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	Pressure set- ting range (bar)	closest inch (inch)
75	200	350	250	300	0.5 - 5.0	2 ½
90	250	425	305	360	0.5 - 5.0	3
110	300	495	345	420	1.0 - 3.0	4



PROGEF Standard Pressure reducing valve type V82
With butt fusion spigots IR metric

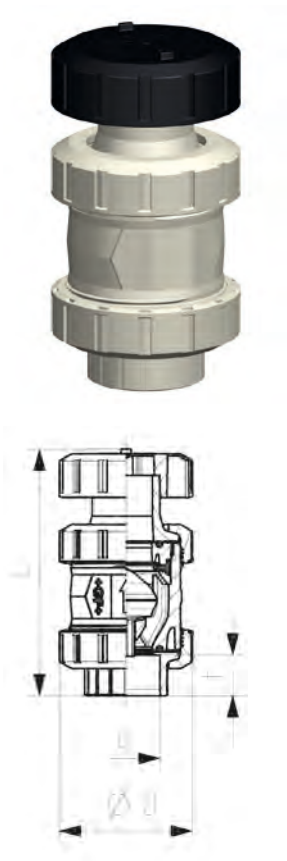
Model:

- Material: PP-H

d (mm)	DN (mm)	Size (inch)	PN (bar)	Type	EPDM Code	Weight (kg)
75	65	2 ½	6	V82	199 041 417	7.910
90	80	3	6	V82	199 041 418	12.910
110	100	4	4	V82	199 041 419	23.300

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	Pressure set- ting range (bar)	closest inch (inch)
75	200	350	250	300	0.5 - 5.0	2 ½
90	250	425	305	360	0.5 - 5.0	3
110	300	495	345	420	1.0 - 3.0	4

Ventilating valves



PROGEF Standard Ventilating and bleed valve type 591 With fusion sockets metric

Model:

- Material: PP-H
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d	DN	PN	EPDM	FKM	D	L	t	closest
(mm)	(mm)	(bar)	Code	Code	(mm)	(mm)	(mm)	inch
								(inch)
16	10	10	167 591 001	167 591 011	50	126	14	$\frac{3}{8}$
20	15	10	167 591 002	167 591 012	50	127	15	$\frac{1}{2}$
25	20	10	167 591 003	167 591 013	58	142	16	$\frac{3}{4}$
32	25	10	167 591 004	167 591 014	68	153	18	1
40	32	10	167 591 005	167 591 015	84	171	19	1 $\frac{1}{4}$
50	40	10	167 591 006	167 591 016	97	190	21	1 $\frac{1}{2}$
63	50	10	167 591 007	167 591 017	124	219	28	2
75	65	10	167 591 008	167 591 018	166	256	29	2 $\frac{1}{2}$
90	80	10	167 591 009	167 591 019	200	275	33	3
110	100	10	167 591 010	167 591 020	238	318	39	4

PROGEF Standard Ventilating and bleed valve type 591
With socket fusion spigots metric

Model:

- Material: PP-H
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	10	167 591 041	167 591 051	50	135	13	$\frac{3}{8}$
20	15	10	167 591 042	167 591 052	50	140	14	$\frac{1}{2}$
25	20	10	167 591 043	167 591 053	58	157	16	$\frac{3}{4}$
32	25	10	167 591 044	167 591 054	68	168	18	1
40	32	10	167 591 045	167 591 055	84	189	20	1 $\frac{1}{4}$
50	40	10	167 591 046	167 591 056	97	211	23	1 $\frac{1}{2}$
63	50	10	167 591 047	167 591 057	124	245	27	2
75	65	10	167 591 048	167 591 058	166	280	48	2 $\frac{1}{2}$
90	80	10	167 591 049	167 591 059	200	296	49	3
110	100	10	167 591 050	167 591 060	238	336	54	4

PROGEF Standard Ventilating valve type 595
With fusion sockets metric

Model:

- Material: PP-H
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	10	167 595 001	167 595 011	50	126	14	$\frac{3}{8}$
20	15	10	167 595 002	167 595 012	50	127	15	$\frac{1}{2}$
25	20	10	167 595 003	167 595 013	58	142	16	$\frac{3}{4}$
32	25	10	167 595 004	167 595 014	68	153	18	1
40	32	10	167 595 005	167 595 015	84	171	19	1 $\frac{1}{4}$
50	40	10	167 595 006	167 595 016	97	190	21	1 $\frac{1}{2}$
63	50	10	167 595 007	167 595 017	124	219	28	2
75	65	10	167 595 008	167 595 018	166	256	29	2 $\frac{1}{2}$
90	80	10	167 595 009	167 595 019	200	275	33	3
110	100	10	167 595 010	167 595 020	238	318	39	4

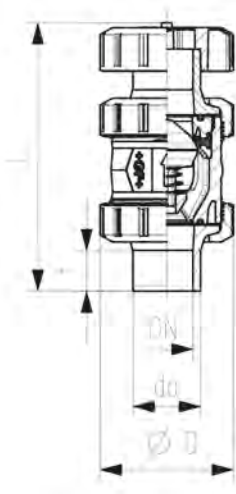


PROGEF Standard Ventilating valve type 595
With socket fusion spigots metric

Model:

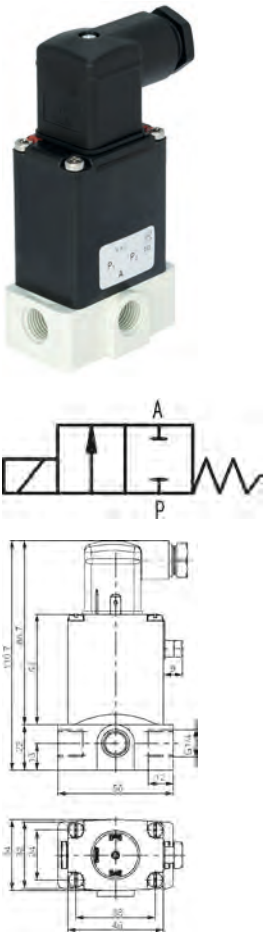
- Material: PP-H
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d	DN	PN	EPDM	FKM	D	L	t	closest
(mm)	(mm)	(bar)	Code	Code	(mm)	(mm)	(mm)	inch
								(inch)
16	10	10	167 595 041	167 595 051	50	135	13	$\frac{3}{8}$
20	15	10	167 595 042	167 595 052	50	140	14	$\frac{1}{2}$
25	20	10	167 595 043	167 595 053	58	157	16	$\frac{3}{4}$
32	25	10	167 595 044	167 595 054	68	168	18	1
40	32	10	167 595 045	167 595 055	84	189	20	1 $\frac{1}{4}$
50	40	10	167 595 046	167 595 056	97	211	23	1 $\frac{1}{2}$
63	50	10	167 595 047	167 595 057	124	245	27	2
75	65	10	167 595 048	167 595 058	166	280	48	2 $\frac{1}{2}$
90	80	10	167 595 049	167 595 059	200	296	49	3
110	100	10	167 595 050	167 595 060	238	336	54	4



Solenoid valves

Type 166

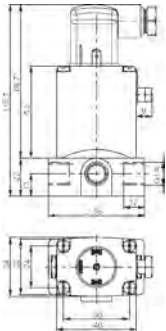
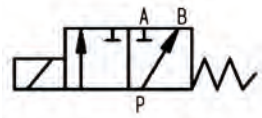


PROGEF Standard Solenoid valve type 166
Straight-through valve 2/2-way

Model:

- Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65
- Circuit function A: FC, closed in rest position

DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	Inner Thread (inch)	Voltage	EPDM Code	FKM Code
3	8.0	4	G1/4	24V DC	199 166 000	199 166 005
4	4.0	5	G1/4	24V DC	199 166 001	199 166 006
5	3.0	6	G1/4	24V DC	199 166 002	199 166 007
3	10.0	4	G1/4	230V 50Hz $\pm$ 10%	199 166 010	
4	5.0	5	G1/4	230V 50Hz $\pm$ 10%	199 166 011	
5	4.5	6	G1/4	230V 50Hz $\pm$ 10%	199 166 012	199 166 017

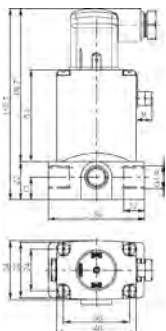
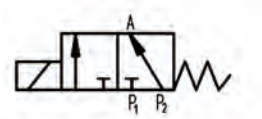


PROGEF Standard Solenoid valve type 166 Distribution valve 3/2-way

Model:

- Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65
- Circuit function F: In rest position, pressure connection P connected to outlet B. A closed

DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	Inner Thread (inch)	Voltage	Function	EPDM Code	FKM Code
4	4	5	G1/4	24V AC/DC	F	199 166 201	199 166 206
4	4	5	G1/4	230V, 50Hz	F	199 166 211	



PROGEF Standard Solenoid valve type 166 Mixing valve 3/2-way

Model:

- Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65
- Circuit function E: In rest position, pressure connection P2 connected to outlet A. P1 closed

DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	Inner Thread (inch)	Voltage	PN (bar)	EPDM Code	FKM Code
3	4	4	G1/4	24V AC/DC	0 - 4	199 166 150	
3	6	4	G1/4	230V 50Hz $\pm 10\%$	0 - 6		199 166 165
4	2	5	G1/4	24V AC/DC	0 - 2	199 166 151	199 166 156

Cone check valves

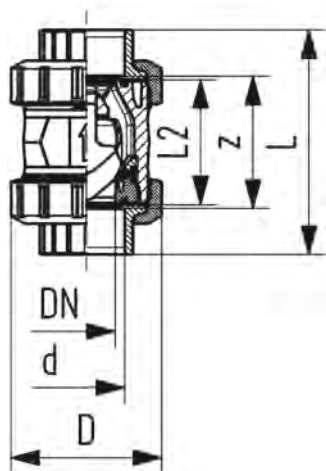
Type 561



PROGEF Standard Check valve type 561
Without spring
With fusion sockets metric

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	$\frac{3}{8}$	10	190	167 561 001	0.080	167 561 011	0.080
20	15	$\frac{1}{2}$	10	180	167 561 002	0.083	167 561 012	0.080
25	20	$\frac{3}{4}$	10	380	167 561 003	0.128	167 561 013	0.180
32	25	1	10	460	167 561 004	0.200	167 561 014	0.190
40	32	1 $\frac{1}{4}$	10	850	167 561 005	0.332	167 561 015	0.340
50	40	1 $\frac{1}{2}$	10	1080	167 561 006	0.498	167 561 016	0.480
63	50	2	10	1670	167 561 007	0.941	167 561 017	0.974
75	65	2 $\frac{1}{2}$	10	2950	167 561 008	2.300	167 561 018	2.310
90	80	3	10	3600	167 561 009	3.560	167 561 019	3.580
110	100	4	10	4150	167 561 010	5.900	167 561 020	5.930

d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	93	56	67	$\frac{3}{8}$
20	50	95	56	66	$\frac{1}{2}$
25	58	109	65	77	$\frac{3}{4}$
32	68	119	71	83	1
40	84	135	85	99	1 $\frac{1}{4}$
50	97	147	89	105	1 $\frac{1}{2}$
63	124	168	101	117	2
75	166	233	136	167	2 $\frac{1}{2}$
90	200	254	141	180	3
110	238	301	164	215	4



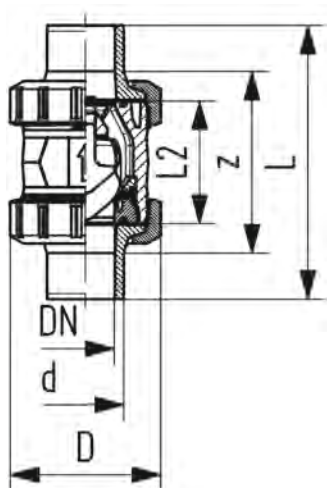
PROGEF Standard Check valve type 561

Without spring

With socket fusion spigots metric

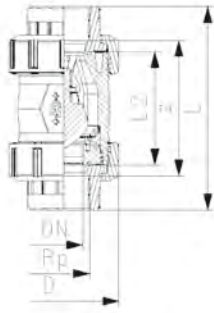
Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	$\frac{3}{8}$	10	190	167 561 041	0.080	167 561 051	0.080
20	15	$\frac{1}{2}$	10	180	167 561 042	0.090	167 561 052	0.090
25	20	$\frac{3}{4}$	10	380	167 561 043	0.170	167 561 053	0.190
32	25	1	10	460	167 561 044	0.200	167 561 054	0.200
40	32	1 $\frac{1}{4}$	10	850	167 561 045	0.340	167 561 055	0.350
50	40	1 $\frac{1}{2}$	10	1080	167 561 046	0.510	167 561 056	0.510
63	50	2	10	1670	167 561 047	0.940	167 561 057	0.950
75	65	2 $\frac{1}{2}$	10	2950	167 561 048	2.360	167 561 058	2.370
90	80	3	10	3600	167 561 049	3.730	167 561 059	3.750
110	100	4	10	4150	167 561 050	5.960	167 561 060	5.980

d (mm)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	50	110	56	$\frac{3}{8}$
20	50	120	56	$\frac{1}{2}$
25	58	139	65	$\frac{3}{4}$
32	68	150	71	1
40	84	170	85	1 $\frac{1}{4}$
50	97	190	89	1 $\frac{1}{2}$
63	124	220	101	2
75	166	280	136	2 $\frac{1}{2}$
90	200	296	141	3
110	238	336	164	4



PROGEF Standard Check valve type 561
Without spring
With threaded sockets reinforced Rp

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

d	DN	Thread Type	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)		(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
					(l/min)				
16	10	Rp	$\frac{3}{8}$	10	190	167 561 021	0.080	167 561 031	0.080
20	15	Rp	$\frac{1}{2}$	10	180	167 561 022	0.090	167 561 032	0.090
25	20	Rp	$\frac{3}{4}$	10	380	167 561 023	0.170	167 561 033	0.180
32	25	Rp	1	10	460	167 561 024	0.200	167 561 034	0.210
40	32	Rp	1 $\frac{1}{4}$	10	850	167 561 025	0.350	167 561 035	0.360
50	40	Rp	1 $\frac{1}{2}$	10	1080	167 561 026	0.500	167 561 036	0.510
63	50	Rp	2	10	1670	167 561 027	0.920	167 561 037	0.920

D	L	L2	z
(mm)	(mm)	(mm)	(mm)
50	96	56	69
50	99	56	67
58	111	65	78
68	127	71	85
84	146	85	100
97	157	89	106
124	183	101	121



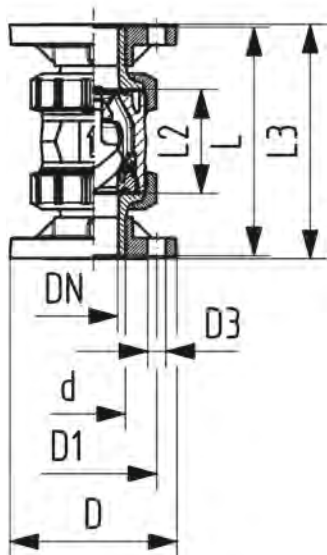
PROGEF Standard Check valve type 561

Without spring

With fixed flanges metric

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	180	167 561 182	0.220	167 561 192	0.220
25	20	¾	10	380	167 561 183	0.340	167 561 193	0.350
32	25	1	10	460	167 561 184	0.440	167 561 194	0.440
40	32	1 ¼	10	850	167 561 185	0.730	167 561 195	0.730
50	40	1 ½	10	1080	167 561 186	0.970	167 561 196	0.970
63	50	2	10	1670	167 561 187	1.600	167 561 197	1.600

d	D	D1	D3	L	L2	L3	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
							(inch)
20	95	65	14	120	56	130	½
25	105	75	14	140	65	150	¾
32	115	85	14	150	71	160	1
40	140	100	18	170	85	180	1 ¼
50	150	110	18	190	89	200	1 ½
63	165	125	18	220	101	230	2



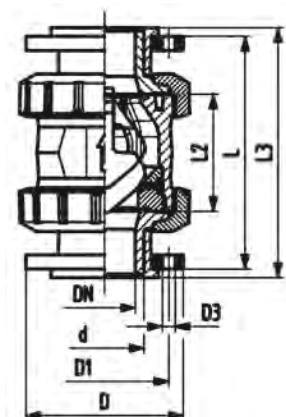
PROGEF Standard Check valve type 561

Without spring

With backing flanges PP-st metric

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
75	65	2 ½	10	2950	167 561 428	4.710	167 561 438	4.720
90	80	3	10	3600	167 561 429	6.850	167 561 439	6.860
110	100	4	10	4150	167 561 430	9.280	167 561 440	9.300

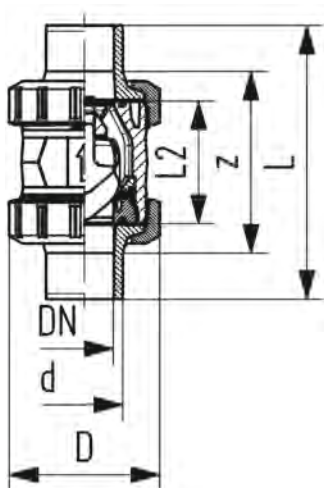
d	D	D1	D3	H	H1	L	L1	L2	L3	L4	L5	L6	M	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		inch
														(inch)
75	166	145	18	149	85	280	270	136	290	70	64	206	M8	1 ¼
90	200	160	18	161	105	296	270	141	310	70	64	206	M8	1 ½
110	238	180	18	178	123	336	320	164	350	120	64	256	M12	2



PROGEF Standard Check valve type 561
Without spring
With butt fusion spigots SDR17,6 metric

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	Size (inch)	SDR	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
50	40	1 ½	17.6	10	1080	167 561 066	0.510	167 561 076	0.510
63	50	2	17.6	10	1670	167 561 067	0.940	167 561 077	0.940
75	65	2 ½	17.6	10	2950	167 561 068	2.340	167 561 078	2.360
90	80	3	17.6	10	3600	167 561 069	3.650	167 561 079	3.670
110	100	4	17.6	10	4150	167 561 070	5.790	167 561 080	5.820

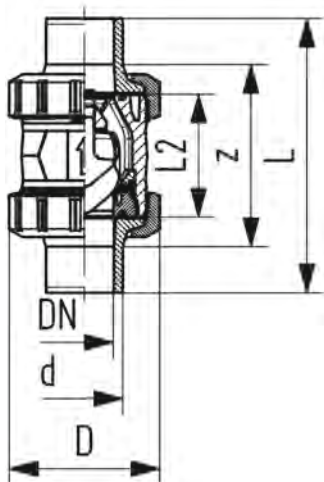
d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
50	97	191	89	2.9	1 ½
63	124	220	101	3.6	2
75	166	266	136	4.7	2 ½
90	200	264	141	5.5	3
110	238	301	164	6.8	4



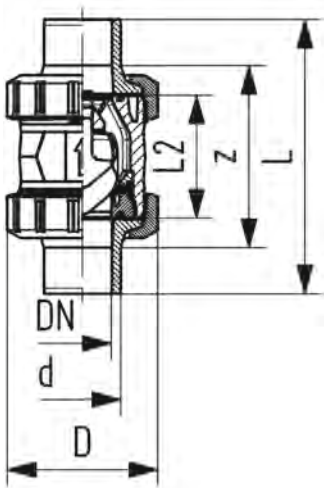
PROGEF Standard Check valve type 561
Without spring
With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Ball is sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	Size (inch)	SDR	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	11	10	180	167 561 082	0.080	167 561 092	0.080
25	20	¾	11	10	380	167 561 083	0.170	167 561 093	0.180
32	25	1	11	10	460	167 561 084	0.203	167 561 094	0.190
40	32	1 ¼	11	10	850	167 561 085	0.340	167 561 095	0.340
50	40	1 ½	11	10	1080	167 561 086	0.523	167 561 096	0.490
63	50	2	11	10	1670	167 561 087	0.989	167 561 097	1.027
75	65	2 ½	11	10	2950	167 561 088	2.350	167 561 098	2.360
90	80	3	11	10	3600	167 561 089	3.660	167 561 099	3.680
110	100	4	11	10	4150	167 561 090	5.810	167 561 100	5.830



d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	50	130	56	1.9	½
25	58	143	65	2.3	¾
32	68	150	71	2.9	1
40	84	171	85	3.7	1 ¼
50	97	191	89	4.6	1 ½
63	124	220	101	5.8	2
75	166	266	136	6.8	2 ½
90	200	264	141	8.2	3
110	238	301	164	10.0	4

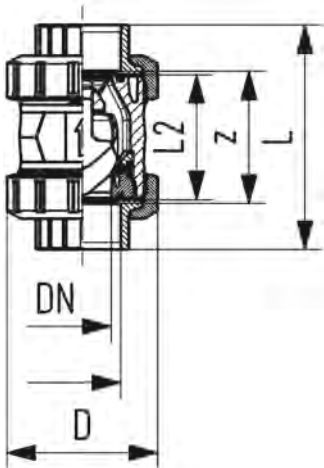
Type 562



PROGEF Standard Check valve type 562 With threaded sockets reinforced Rp

Model:

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



Rp (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
¾	10	10	190	167 562 021	0.080	167 562 031	0.080
½	15	10	180	167 562 022	0.090	167 562 032	0.090
¾	20	10	380	167 562 023	0.170	167 562 033	0.180
1	25	10	460	167 562 024	0.200	167 562 034	0.210
1 ¼	32	10	850	167 562 025	0.350	167 562 035	0.360
1 ½	40	10	1080	167 562 026	0.500	167 562 036	0.510
2	50	10	1670	167 562 027	0.920	167 562 037	0.920

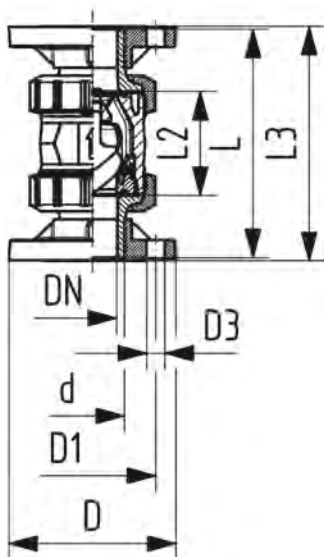
Rp (inch)	D (mm)	L (mm)	L2 (mm)	z (mm)
¾	50	96	56	69
½	50	99	56	67
¾	58	111	65	78
1	68	127	71	85
1 ¼	84	146	85	100
1 ½	97	157	89	106
2	124	183	101	121



PROGEF Standard Check valve type 562 With fixed flanges metric

Model:

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10



d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
20	15	10	180	167 562 182	0.220	167 562 192	0.220
25	20	10	380	167 562 183	0.340	167 562 193	0.350
32	25	10	460	167 562 184	0.440	167 562 194	0.440
40	32	10	850	167 562 185	0.730	167 562 195	0.730
50	40	10	1080	167 562 186	0.970	167 562 196	0.970
63	50	10	1670	167 562 187	1.600	167 562 197	1.600

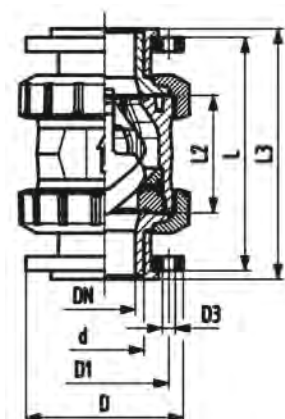
d	D	D1	D3	L	L2	L3	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
							(inch)
20	95	65	14	120	56	130	½
25	105	75	14	140	65	150	¾
32	115	85	14	150	71	160	1
40	140	100	18	170	85	180	1 ¼
50	150	110	18	190	89	200	1 ½
63	165	125	18	220	101	230	2



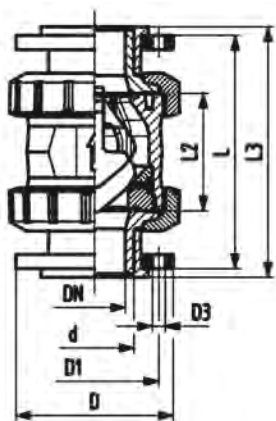
PROGEF Standard Check valve type 562 With backing flanges PP-st metric

Model:

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501



d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
75	65	10	2950	167 562 428	4.710	167 562 438	4.720
90	80	10	3600	167 562 429	6.850	167 562 439	6.860
110	100	10	4150	167 562 430	9.280	167 562 440	9.300



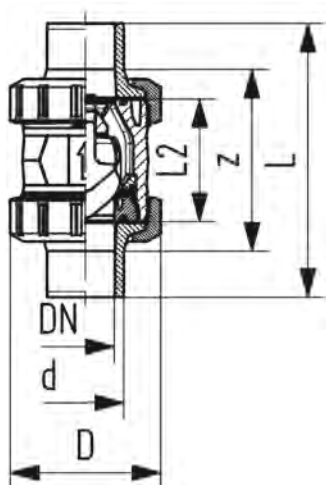
d (mm)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	closest inch (inch)
75	166	145	18	149	85	280	270	136	290	70	64	206	M8	1 ¼
90	200	160	18	161	105	296	270	141	310	70	64	206	M8	1 ½
110	238	180	18	178	123	336	320	164	350	120	64	256	M12	2



PROGEF Standard Check valve type 562
With butt fusion spigots
SDR17,6 metric

Model:

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
50	40	10	1080	167 562 066	0.510	167 562 076	0.510
63	50	10	1670	167 562 067	0.940	167 562 077	0.940
75	65	10	2950	167 562 068	2.340	167 562 078	2.360
90	80	10	3600	167 562 069	3.650	167 562 079	3.670
110	100	10	4150	167 562 070	5.790	167 562 080	5.820

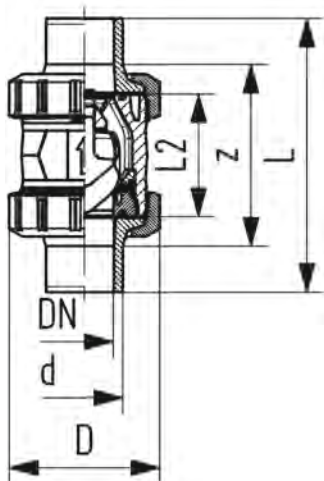
d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
50	97	191	89	2.9	1 ½
63	124	220	101	3.6	2
75	166	266	136	4.7	2 ½
90	200	264	141	5.5	3
110	238	301	164	6.8	4



PROGEF Standard Check valve type 562
With butt fusion spigots IR-Plus
SDR11 metric

Model:

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
20	15	10	180	167 562 082	0.080	167 562 092	0.080
25	20	10	380	167 562 083	0.170	167 562 093	0.180
32	25	10	460	167 562 084	0.190	167 562 094	0.190
40	32	10	850	167 562 085	0.340	167 562 095	0.340
50	40	10	1080	167 562 086	0.490	167 562 096	0.490
63	50	10	1670	167 562 087	0.930	167 562 097	0.930
75	65	10	2950	167 562 088	2.350	167 562 098	2.360
90	80	10	3600	167 562 089	3.660	167 562 099	3.680
110	100	10	4150	167 562 090	5.810	167 562 100	5.830

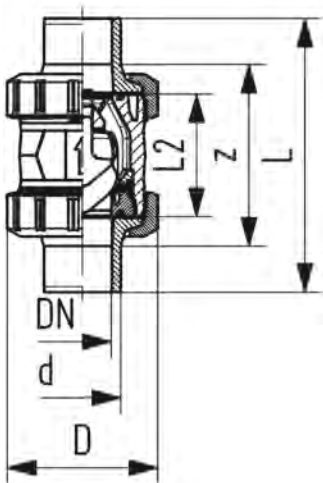
d	D	L	L2	e	closest
(mm)	(mm)	(mm)	(mm)	(mm)	inch
					(inch)
20	50	130	56	1.9	½
25	58	143	65	2.3	¾
32	68	150	71	2.9	1
40	84	171	85	3.7	1 ¼
50	97	191	89	4.6	1 ½
63	124	220	101	5.8	2
75	166	266	136	6.8	2 ½
90	200	264	141	8.2	3
110	238	301	164	10.0	4



PROGEF Standard Check valve type 562 With socket fusion spigots metric

Model:

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	190	167 562 041	0.080	167 562 051	0.080
20	15	10	180	167 562 042	0.090	167 562 052	0.090
25	20	10	380	167 562 043	0.170	167 562 053	0.190
32	25	10	460	167 562 044	0.200	167 562 054	0.200
40	32	10	850	167 562 045	0.340	167 562 055	0.350
50	40	10	1080	167 562 046	0.510	167 562 056	0.510
63	50	10	1670	167 562 047	0.940	167 562 057	0.950
75	65	10	2950	167 562 048	2.360	167 562 058	2.370
90	80	10	3600	167 562 049	3.730	167 562 059	3.750
110	100	10	4150	167 562 050	5.960	167 562 060	5.980

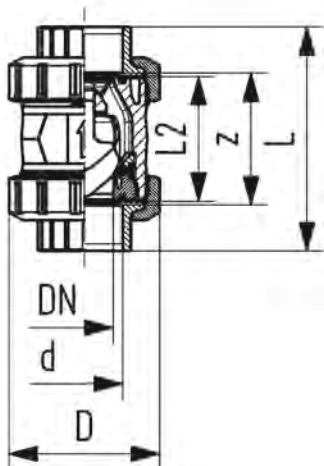
d (mm)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	50	110	56	$\frac{3}{8}$
20	50	120	56	$\frac{1}{2}$
25	58	139	65	$\frac{3}{4}$
32	68	150	71	1
40	84	170	85	1 $\frac{1}{4}$
50	97	190	89	1 $\frac{1}{2}$
63	124	220	101	2
75	166	280	136	2 $\frac{1}{2}$
90	200	296	141	3
110	238	336	164	4



PROGEF Standard Check valve type 562 With fusion sockets metric

Model:

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

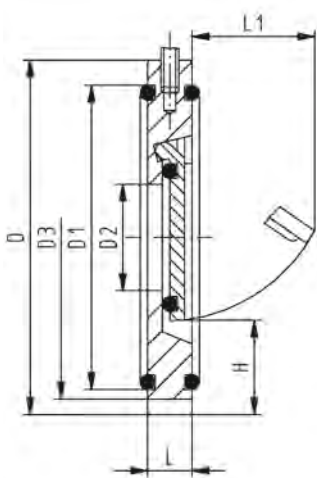


d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	190	167 562 001	0.080	167 562 011	0.080
20	15	10	180	167 562 002	0.080	167 562 012	0.080
25	20	10	380	167 562 003	0.170	167 562 013	0.180
32	25	10	460	167 562 004	0.190	167 562 014	0.190
40	32	10	850	167 562 005	0.330	167 562 015	0.340
50	40	10	1080	167 562 006	0.480	167 562 016	0.480
63	50	10	1670	167 562 007	0.880	167 562 017	0.880
75	65	10	2950	167 562 008	2.300	167 562 018	2.310
90	80	10	3600	167 562 009	3.560	167 562 019	3.580
110	100	10	4150	167 562 010	5.900	167 562 020	5.930

d	D	L	L2	z	closest
(mm)	(mm)	(mm)	(mm)	(mm)	inch
					(inch)
16	50	93	56	67	$\frac{3}{8}$
20	50	95	56	66	$\frac{1}{2}$
25	58	109	65	77	$\frac{3}{4}$
32	68	119	71	83	1
40	84	135	85	99	1 $\frac{1}{4}$
50	97	147	89	105	1 $\frac{1}{2}$
63	124	168	101	117	2
75	166	233	136	167	2 $\frac{1}{2}$
90	200	254	141	180	3
110	238	301	164	215	4

Wafer check valves

Type 369



PROGEF Standard Wafer check valve type 369 Without spring

Model:

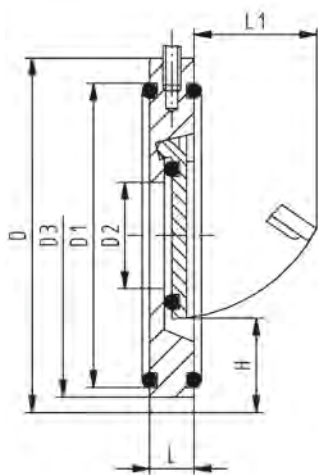
- Material: PP-H
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- It is necessary to use a special outlet flange adaptor PP or PE on the outgoing side of the wafer check valve
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- Wafer check valves without reset spring are not recommended for pulsating flows (production of noise)

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
40	32	10	167 369 002	0.070	167 369 022	0.084
50	40	10	167 369 003	0.099	167 369 023	0.110
63	50	10	167 369 004	0.143	167 369 024	0.159
75	65	10	167 369 005	0.218	167 369 025	0.232
90	80	10	167 369 006	0.272	167 369 026	0.264
110	100	10	167 369 007	0.378	167 369 027	0.405
140	125	10	167 369 009	0.532	167 369 029	0.594
160	150	6	167 369 010	0.754	167 369 030	0.805
225	200	6	167 369 011	1.409	167 369 031	1.400
280	250	6	167 369 012	2.201	167 369 032	2.524
315	300	6	167 369 013	3.671	167 369 033	3.520

d (mm)	closest inch (inch)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	L (mm)	L1 (mm)	H (mm)	Opening pressure vertical (mbar)	Opening pressure horizontal (mbar)	Minimum water col- umn for sealing (m)
40	1 ¼	85	59	18		15	22	25	10	1	3
50	1 ½	105	77	22	95	16	27	27	10	1	3
63	2	124	92	32	109	18	40	29	10	1	3
75	2 ½	137	111	40	129	20	55	31	10	1	3
90	3	175	131	54	144	20	67	32	10	1	3
110	4	175	153	70	164	23	77	31	10	1	3
140	5	195	185	92		23	94	35	10	1	3
160	6	222	198	105	220	26	100	41	10	1	3
225	8	279	259	154	275	34	152	38	18	1	3
280	10	340	311	192	330	40	180	41	18	1	3
315	12	410	347	227	380	45	215	41	18	1	3



PROGEF Standard Wafer check valve type 369 With Hastelloy C spring

Model:

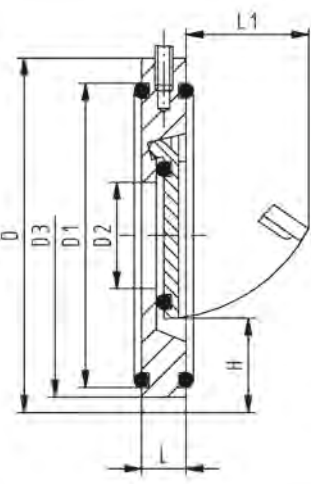
- Material: PP-H
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- It is necessary to use a special outlet flange adaptor PP or PE on the outgoing side of the wafer check valve
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed

d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
40	32	1 ¼	10	167 369 082	0.090	167 369 102	0.090
50	40	1 ½	10	167 369 083	0.096	167 369 103	0.097
63	50	2	10	167 369 084	0.170	167 369 104	0.170
75	65	2 ½	10	167 369 085	0.220	167 369 105	0.220
90	80	3	10	167 369 086	0.272	167 369 106	0.264
110	100	4	10	167 369 087	0.366	167 369 107	0.370
140	125	5	10	167 369 089	0.529	167 369 109	0.500
160	150	6	6	167 369 090	0.762	167 369 110	0.760
225	200	8	6	167 369 091	0.535	167 369 111	1.400
280	250	10	6	167 369 092	2.400	167 369 112	2.400
315	300	12	6	167 369 093	3.520	167 369 113	3.520

d (mm)	closest inch (inch)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	L (mm)	L1 (mm)	H (mm)	Opening pressure vertical (mbar)	Opening pressure horizontal (mbar)	Minimum water col- umn for sealing (m)
40	1 ¼	85	59	18		15	22	25	30	20	3
50	1 ½	105	77	22	95	16	27	27	30	20	3
63	2	124	92	32	109	18	40	29	30	20	3
75	2 ½	137	111	40	129	20	55	31	30	20	3
90	3	175	131	54	144	20	67	32	30	20	3
110	4	175	153	70	164	23	77	31	30	20	3
140	5	195	185	92		23	94	35	30	20	3
160	6	222	198	105	220	26	100	41	30	20	3
225	8	279	259	154	275	34	152	38	38	20	3
280	10	340	311	192	330	40	180	41	38	20	3
315	12	410	347	227	380	45	215	41	38	20	3



PROGEF Standard Wafer check valve type 369 **With V4A spring (stainless steel 316)**

Model:

- Material: PP-H
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

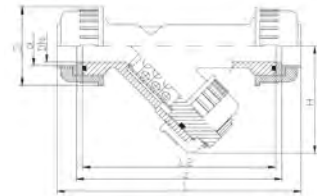
Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- It is necessary to use a special outlet flange adaptor PP or PE on the outgoing side of the wafer check valve
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed

d	DN	Size	PN	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	Code	(kg)	Code	(kg)
40	32	1 ¼	10	167 369 042	0.090	167 369 062	0.071
50	40	1 ½	10	167 369 043	0.095	167 369 063	0.100
63	50	2	10	167 369 044	0.141	167 369 064	0.170
75	65	2 ½	10	167 369 045	0.218	167 369 065	0.245
90	80	3	10	167 369 046	0.260	167 369 066	0.260
110	100	4	10	167 369 047	0.375	167 369 067	0.370
140	125	5	10	167 369 049	0.535	167 369 069	0.500
160	150	6	6	167 369 050	0.740	167 369 070	0.740
225	200	8	6	167 369 051	1.376	167 369 071	1.400
280	250	10	6	167 369 052	2.345	167 369 072	2.400
315	300	12	6	167 369 053	3.520	167 369 073	3.520

d	closest	D	D1	D2	D3	L	L1	H	Opening	Opening	Minimum
(mm)	inch	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	pressure	pressure	water col-
	(inch)								vertical	horizontal	umn for
									(mbar)	(mbar)	sealing
											(m)
40	1 ¼	85	59	18		15	22	25	30	20	3
50	1 ½	105	77	22	95	16	27	27	30	20	3
63	2	124	92	32	109	18	40	29	30	20	3
75	2 ½	137	111	40	129	20	55	31	30	20	3
90	3	175	131	54	144	20	67	32	30	20	3
110	4	175	153	70	164	23	77	31	30	20	3
140	5	195	185	92		23	94	35	30	20	3
160	6	222	198	105	220	26	100	41	30	20	3
225	8	279	259	154	275	34	152	38	38	20	3
280	10	340	311	192	330	40	180	41	38	20	3
315	12	410	347	227	380	45	215	41	38	20	3

Strainers



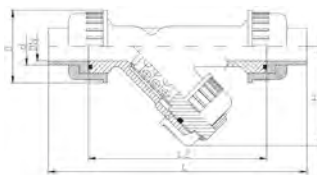
PROGEF Standard Line strainer type 305 With fusion sockets metric

Model:

- Material: PP-H
- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens
- Screen perforation 0.5 mm
- For easy installation and removal
- Overall length according to EN 558

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	35	167 305 000	0.209	167 305 049	0.214
25	20	10	65	167 305 050	0.256	167 305 099	0.257
32	25	10	90	167 305 100	0.329	167 305 149	0.327
40	32	10	155	167 305 150	0.579	167 305 199	0.586
50	40	10	225	167 305 200	0.758	167 305 249	0.748
63	50	10	370	167 305 250	1.188	167 305 299	1.185

d (mm)	D (mm)	H (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
20	52	75	168	130	140	1/2
25	62	80	192	150	160	3/4
32	68	90	206	160	170	1
40	85	110	230	180	190	1 1/4
50	85	125	256	200	210	1 1/2
63	102	150	294	230	240	2

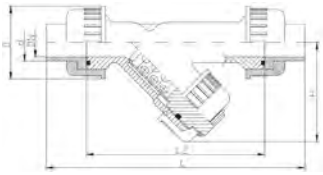


PROGEF Standard Line strainers type 305 With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens
- Screen perforation 0.5 mm
- For easy installation and removal
- Overall length according to EN 558

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	35	167 305 300	0.218	167 305 349	0.219
25	20	10	65	167 305 350	0.267	167 305 399	0.268
32	25	10	90	167 305 400	0.353	167 305 449	0.354
40	32	10	155	167 305 450	0.616	167 305 499	0.623
50	40	10	225	167 305 500	0.805	167 305 549	0.816
63	50	10	370	167 305 550	1.282	167 305 599	1.295



d (mm)	D (mm)	H (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	52	75	238	130	1.9	¾
25	62	80	264	150	2.3	¾
32	68	90	280	160	3.0	1
40	85	110	306	180	3.7	1 ¼
50	85	125	332	200	4.6	1 ½
63	102	150	368	230	5.8	2

PROGEF Standard ASTM / ANSI



	Butt fusion flange adaptors, flanges and gaskets	308
	Socket fusion flange adaptors, flanges and gaskets	311
	Butt fusion transition fittings	314
	Socket fusion transition fittings	315
	Ball valves type 543	316
	Ball valves type 546	318
	Ball valves pneumatic type 251	319
	Ball valves pneumatic type 286	324
	Butterfly valves type 565	330
	Butterfly valves type 567	333
	Butterfly valves type 578	339
	Butterfly valves electric type 147	341
	Diaphragm valves type 317	360
	Diaphragm valves type 517	361
	Diaphragm valves pneumatic DIASTAR Six	362
	Diaphragm valves pneumatic DIASTAR Ten	363
	Diaphragm valves pneumatic DIASTAR TenPlus	366



Diaphragm valves DIASTAR big dimensions

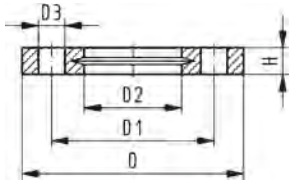
367



Cone check valves

369

Butt fusion flange adaptors, flanges and gaskets



Flanges PP-V (full plastic)

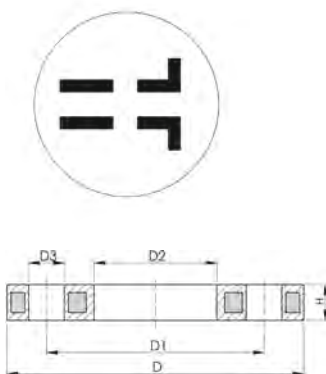
Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

d (mm)	DN (mm)	d (inch)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
90	80	3	16	ASME	class 150	Butt	727 701 513	0.607
110	100	4	16	ASME	class 150	Butt	727 701 514	0.736
160	150	6	16	Metric/ASME	PN10/ class 150	Butt	727 700 517	1.200
200	200	8	16	Metric/ASME	PN10/ class 150	Butt	727 700 519	1.400
225	200	8	16	Metric/ASME	PN10/ class 150	Butt	727 700 520	1.400
250	250	10	10	ASME	class 150	Butt	727 701 521	2.241
280	250	10	10	ASME	class 150	Butt	727 701 522	2.173
315	300	12	10	ASME	class 150	Butt	727 701 523	3.627

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
90	200	152	108	19	27	4	M16
110	229	190	128	19	28	8	M16
160	285	240	178	22	32	8	M20
200	340	297	235	22	34	8	M20
225	340	297	238	22	34	8	M20
250	406	362	288	26	38	12	M20
280	406	362	294	26	38	12	M20
315	483	432	338	26	42	12	M20



Flanges PP-Steel

Model:

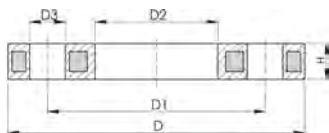
- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

¹⁾ FM 1613 approved – 15 bar

²⁾ Profiled loose flange

d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
20	15	95	16	ASME	class 150	Butt/Socket	727 701 206	0.213
25	20	105	16	ASME	class 150	Butt/Socket	727 701 207	0.260
32	25	115	16	ASME	class 150	Butt/Socket	727 701 208	0.416
40	32	140	16	ASME	class 150	Butt/Socket	727 701 209	0.730
50	40	150	16	ASME	class 150	Butt/Socket	727 701 210	0.809
63	50	165	16	ASME	class 150	Butt/Socket	727 701 211	0.866
75	65	185	16	ASME	class 150	Butt/Socket	727 701 212	1.117
90	80	200	16	ASME	class 150	Butt	727 701 313	1.499
110	100	229	16	ASME	class 150	Butt	727 701 314	1.739
160	150	285	16	Metric/ASME	PN10/ class 150	Butt	727 700 717	3.491
200	200	340	16	Metric/ASME	PN10/ class 150	Butt	727 700 719	5.600
225	200	340	16	Metric/ASME	PN10/ class 150	Butt	727 700 720	5.533
250	250	406	10	ASME	class 150	Butt	727 701 321	6.000



d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
315	300	483	10	ASME	class 150	Butt	727 701 322	11.800
355	350	540	10	ASME	class 150	Butt	727 701 323	17.900
400	400	597	10	ASME	class 150	Butt	727 701 324	24.500
450	500	712	10	ASME	class 150	Butt	727 701 325	33.600

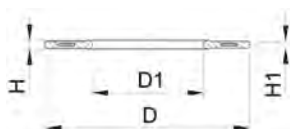
d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
20	60	28	16	12	4	M12
25	70	34	16	12	4	M12
32	79	42	16	16	4	M12
40	89	51	16	16	4	M16
50	98	62	16	18	4	M16
63	121	78	19	18	4	M16
75	140	92	19	18	4	M16
90	152	108	19	20	4	M16
110	190	128	19	20	8	M16
160	240	178	22	24	8	M20
200	295	235	22	27	8	M20
225	297	238	22	27	8	M20
250	362	293	25	30	12	M24
315	432	338	25	34	12	M24
355	476	376	29	42	12	M27
400	539	429	29	44	16	M27
450	635	540	32	53	20	M30



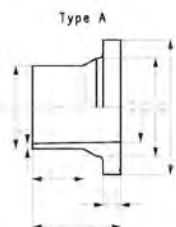
Profile Flange Gasket EPDM/FKM ANSI/ASME

Model:

- Suitable for flanges adaptors PP/PE PVDF
- Hardness: 70° Shore EPDM, 75° Shore FKM
- Centered by the flange bolts
- Dimension D is in accordance with the inner diameter of the bolt circle



d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	Inch (inch)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
25	20	748 440 502	0.010	749 440 502	0.011	3/4	54	27	4	3
32	25	748 440 503	0.011	749 440 503	0.023	1	64	33	4	3
40	32	748 440 504	0.017	749 440 504	0.024	1 1/4	73	42	4	3
50	40	748 440 505	0.030	749 440 505	0.030	1 1/2	83	48	4	3
63	50	748 440 506	0.029	749 440 506	0.042	2	102	60	5	4
75	65	748 440 507	0.046	749 440 507	0.068	2 1/2	121	73	5	4
90	80	748 440 508	0.053	749 440 508	0.083	3	133	89	5	4
110	100	748 440 509	0.088	749 440 509	0.139	4	171	115	6	5
160 - 180	150	748 440 512	0.127	749 440 512	0.240	6	222	160	8	6
225	200	748 440 515	0.195	749 440 515	0.316	8	279	220	8	6
250	250	748 440 517	0.243	749 440 517	0.373	10	337	273	8	6
315	300	748 440 518	0.398	749 440 518	0.750	12	406	325	8	6
355	350	748 440 519	0.800	749 440 519	0.800	14	448	356	10	7
400	400	748 440 520	0.900	749 440 520	0.900	16	512	406	10	7
450	450	748 440 521	1.000	749 440 521	1.000	18	547	457	10	7
500	500	748 440 522	1.000	749 440 522	1.000	20	604	508	10	7



PROGEF Standard Flange adaptor PP-H SDR11/PN10 Combined jointing face: flat and serrated

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR- Infrared welding compatible
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Suitable for flange connections to metric
- Injection moulded

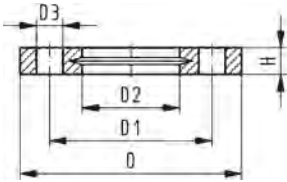
Flange adapters are designed to work with most butterfly valves

For bigger dimensions, see flange adaptors in other chapters

d	DN	SDR	PN	FM	Type	Code	Weight
(mm)	(mm)		(bar)				(kg)
25	20	11	10	IR	A	727 798 757	0.022
32	25	11	10	IR	A	727 798 758	0.039
40	32	11	10	IR	A	727 798 759	0.056
50	40	11	10	IR	A	727 798 760	0.087
90	80	11	10	IR	B	727 798 763	0.310

d	d1	d2	d3	d4	L	L1	L2	e	a°
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
25	32	58		20	52	27	9	2.3	
32	40	68		26	54	28	10	2.9	
40	49	78		32	56	25	11	3.7	
50	60	88		40	62	32	12	4.6	
90	105	138	78	73	80	41	17	8.2	30

Socket fusion flange adaptors, flanges and gaskets



Flanges PP-V (full plastic)

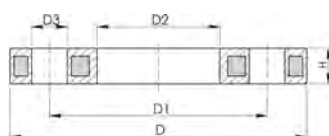
Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

d (mm)	DN (mm)	d (inch)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
20	15	½	16	ASME	class 150	Butt/Socket	727 701 406	0.091
25	20	¾	16	ASME	class 150	Butt/Socket	727 701 407	0.120
32	25	1	16	ASME	class 150	Butt/Socket	727 701 408	0.147
40	32	1 ¼	16	ASME	class 150	Butt/Socket	727 701 409	0.246
50	40	1 ½	16	ASME	class 150	Butt/Socket	727 701 410	0.299
63	50	2	16	ASME	class 150	Butt/Socket	727 701 411	0.361
75	65	2 ½	16	ASME	class 150	Butt/Socket	727 701 412	0.492
90	80	3	16	ASME	class 150	Socket	727 701 413	0.605
110	100	4	16	ASME	class 150	Socket	727 701 414	0.704
160	150		16	Metric/ASME	PN10/ class 150	Socket	727 700 417	1.050
200	200		16	Metric/ASME	PN10/ class 150	Socket	727 700 419	1.629
225	200		16	Metric/ASME	PN10/ class 150	Socket	727 700 420	1.400
280	250	10	10	ASME	class 150	Socket	727 701 422	1.838
315	300	12	10	ASME	class 150	Socket	727 701 423	3.482

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
20	95	60	28	16	16	4	M12
25	105	70	34	16	17	4	M12
32	115	79	42	16	18	4	M12
40	140	89	51	16	20	4	M16
50	150	98	62	16	22	4	M16
63	165	121	78	19	24	4	M16
75	185	140	92	19	26	4	M16
90	200	152	110	19	27	4	M16
110	229	190	133	19	28	8	M16
160	285	240	190	22	32	8	M20
200	340	297	226	22	34	8	M20
225	340	295	250	22	34	8	M20
280	406	362	310	26	38	12	M20
315	483	432	348	26	42	12	M20



Flanges PP-Steel

Model:

- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

¹⁾ FM 1613 approved – 15 bar

²⁾ Profiled loose flange

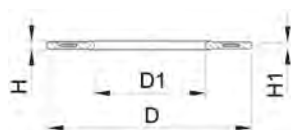
d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
20	15	95	16	ASME	class 150	Butt/Socket	727 701 206	0.213
25	20	105	16	ASME	class 150	Butt/Socket	727 701 207	0.260
32	25	115	16	ASME	class 150	Butt/Socket	727 701 208	0.416
40	32	140	16	ASME	class 150	Butt/Socket	727 701 209	0.730
50	40	150	16	ASME	class 150	Butt/Socket	727 701 210	0.809
63	50	165	16	ASME	class 150	Butt/Socket	727 701 211	0.866
75	65	185	16	ASME	class 150	Butt/Socket	727 701 212	1.117
90	80	200	16	ASME	class 150	Socket	727 701 213	1.492
110	100	229	16	ASME	class 150	Socket	727 701 214	1.695
160	150	285	16	Metric/ASME	PN10/ class 150	Socket	727 700 817	3.167
200	200	340	16	Metric/ASME	PN10/ class 150	Socket	727 700 819	6.143
225	200	340	16	Metric/ASME	PN10/ class 150	Socket	727 700 820	4.448

d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
20	60	28	16	12	4	M12
25	70	34	16	12	4	M12
32	79	42	16	16	4	M12
40	89	51	16	16	4	M16
50	98	62	16	18	4	M16
63	121	78	19	18	4	M16
75	140	92	19	18	4	M16
90	152	110	19	20	4	M16
110	190	133	19	20	8	M16
160	240	190	22	26	8	M20
200	295	226	22	29	8	M20
225	297	250	22	29	8	M20

Profile Flange Gasket EPDM/FKM ANSI/ASME

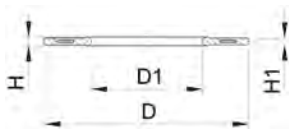
Model:

- Suitable for flanges adaptors PP/PE PVDF
- Hardness: 70° Shore EPDM, 75° Shore FKM
- Centered by the flange bolts
- Dimension D is in accordance with the inner diameter of the bolt circle



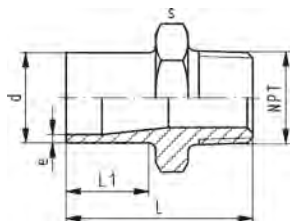
d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	Inch (inch)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
25	20	748 440 502	0.010	749 440 502	0.011	3/4	54	27	4	3
32	25	748 440 503	0.011	749 440 503	0.023	1	64	33	4	3
40	32	748 440 504	0.017	749 440 504	0.024	1 1/4	73	42	4	3
50	40	748 440 505	0.030	749 440 505	0.030	1 1/2	83	48	4	3
63	50	748 440 506	0.029	749 440 506	0.042	2	102	60	5	4
75	65	748 440 507	0.046	749 440 507	0.068	2 1/2	121	73	5	4
90	80	748 440 508	0.053	749 440 508	0.083	3	133	89	5	4
110	100	748 440 509	0.088	749 440 509	0.139	4	171	115	6	5
160 - 180	150	748 440 512	0.127	749 440 512	0.240	6	222	160	8	6
225	200	748 440 515	0.195	749 440 515	0.316	8	279	220	8	6

table continued on the next page



d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	Inch (inch)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
250	250	748 440 517	0.243	749 440 517	0.373	10	337	273	8	6
315	300	748 440 518	0.398	749 440 518	0.750	12	406	325	8	6
355	350	748 440 519	0.800	749 440 519	0.800	14	448	356	10	7
400	400	748 440 520	0.900	749 440 520	0.900	16	512	406	10	7
450	450	748 440 521	1.000	749 440 521	1.000	18	547	457	10	7
500	500	748 440 522	1.000	749 440 522	1.000	20	604	508	10	7

Butt fusion transition fittings

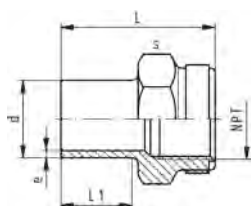


PROGEF Standard Adaptor nipple PN10 Metric NPT male SDR11

Model:

- Material: PP-H
- With butt fusion spigot **SDR11** and NPT tapered male thread
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d	Thread Type	Size	SDR	PN	FM	Code	Weight	L	L1	s	e
(mm)		(inch)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)
20	NPT	½	11	10	IR	727 914 656	0.013	51	23	32	1.9
25	NPT	¾	11	10	IR	727 914 657	0.026	52	23	36	2.3
32	NPT	1	11	10	IR	727 914 658	0.026	55	23	46	2.9
40	NPT	1 ¼	11	10	IR	727 914 659	0.041	58	24	55	3.7
50	NPT	1 ½	11	10	IR	727 914 660	0.062	60	23	65	4.6
63	NPT	2	11	10	IR	727 914 661	0.097	67	26	80	5.8



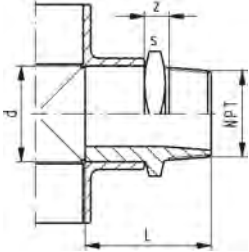
PROGEF Standard Adaptor nipple SDR11/PN10 Metric NPT female

Model:

- Material: PP-H
- With butt fusion spigot **SDR11** and NPT tapered female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d	Size	SDR	PN	FM	Thread Type	Code	Weight	L	L1	s	e
(mm)	(inch)		(bar)				(kg)	(mm)	(mm)	(mm)	(mm)
20	½	11	10	IR	NPT	727 914 356	0.017	49	23	32	1.9
25	¾	11	10	IR	NPT	727 914 357	0.022	51	23	36	2.3
32	1	11	10	IR	NPT	727 914 358	0.039	54	23	46	2.9
40	1 ¼	11	10	IR	NPT	727 914 359	0.057	56	23	55	3.7
50	1 ½	11	10	IR	NPT	727 914 360	0.085	60	23	65	4.6
63	2	11	10	IR	NPT	727 914 361	0.122	62	23	80	5.8

Socket fusion transition fittings

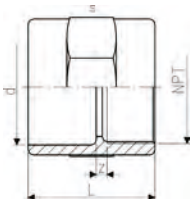


PROGEF Standard Adaptor nipple PN10 Metric NPT male

Model:

- Material: PP-H
- With fusion spigot metric and NPT tapered male thread
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)	z (mm)
16	NPT	¾	10	727 914 555	0.008	37	27	13
20	NPT	½	10	727 914 556	0.013	42	32	13
25	NPT	¾	10	727 914 557	0.015	46	36	13
32	NPT	1	10	727 914 558	0.026	52	46	12
40	NPT	1 ¼	10	727 914 559	0.041	56	55	14
50	NPT	1 ½	10	727 914 560	0.061	60	65	15
63	NPT	2	10	727 914 561	0.100	69	80	16



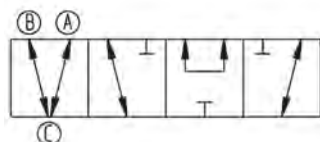
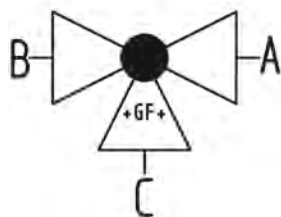
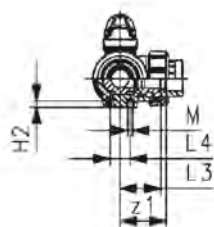
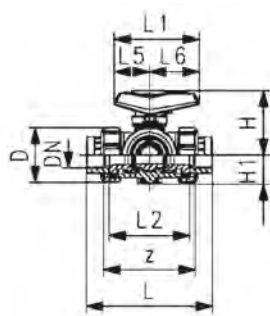
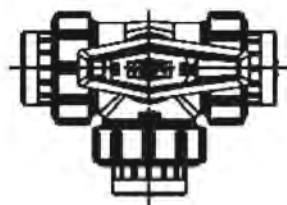
PROGEF Standard Adaptor socket PN10 Metric NPT female

Model:

- Material: PP-H
- With fusion socket metric and NPT tapered female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)	z (mm)
20	NPT	½	10	727 914 266	0.018	40	32	7
25	NPT	¾	10	727 914 267	0.023	42	36	7
32	NPT	1	10	727 914 268	0.039	48	46	7
40	NPT	1 ¼	10	727 914 269	0.056	53	55	7
50	NPT	1 ½	10	727 914 270	0.095	54	65	9
63	NPT	2	10	727 914 271	0.145	62	80	9

Ball valves type 543



PROGEF Standard 3-Way ball valve type 543 Pro Horizontal/T-port With threaded sockets reinforced NPT

Model:

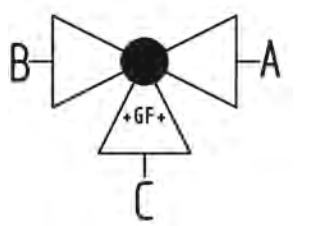
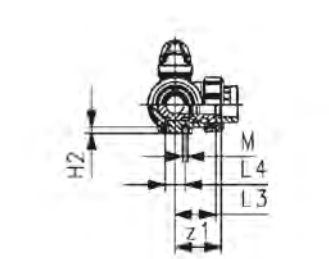
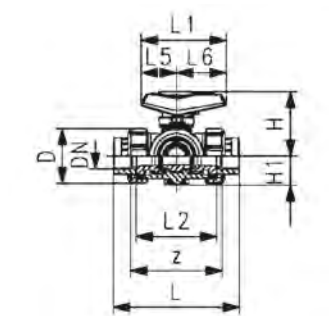
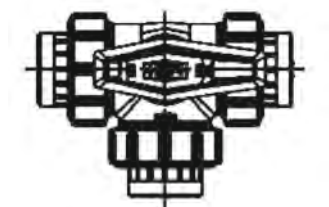
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Lockable lever as standard (DN10-DN50)
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	NPT	3/8	10	140	167 543 361	0.160	167 543 371	0.160
20	15	NPT	1/2	10	200	167 543 362	0.164	167 543 372	0.164
25	20	NPT	3/4	10	470	167 543 363	0.236	167 543 373	0.236
32	25	NPT	1	10	793	167 543 364	0.357	167 543 374	0.357
40	32	NPT	1 1/4	10	1290	167 543 365	0.609	167 543 375	0.609
50	40	NPT	1 1/2	10	1910	167 543 366	0.898	167 543 376	0.898
63	50	NPT	2	10	3100	167 543 367	1.964	167 543 377	1.744

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)	z (mm)	z1 (mm)
16	50	61	28	8	112	82	72	36	25	35	47	6	86	43
20	50	61	28	8	114	82	72	36	25	35	47	6	80	40
25	58	74	32	8	131	106	85	43	25	44	62	6	95	48
32	68	80	36	8	154	106	98	49	25	44	62	6	110	55
40	84	95	45	9	180	131	118	59	45	57	74	8	132	66
50	97	102	51	9	203	131	135	68	45	57	74	8	157	79
63	124	117	65	9	258	152	176	88	45	66	86	8	210	105



PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/L-port
With threaded sockets reinforced NPT

Model:

- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	NPT	3/8	10	50	167 543 161	0.161	167 543 171	0.161
20	15	NPT	1/2	10	75	167 543 162	0.165	167 543 172	0.165
25	20	NPT	3/4	10	150	167 543 163	0.237	167 543 173	0.237
32	25	NPT	1	10	280	167 543 164	0.361	167 543 174	0.361
40	32	NPT	1 1/4	10	480	167 543 165	0.616	167 543 175	0.616
50	40	NPT	1 1/2	10	620	167 543 166	0.912	167 543 176	0.912
63	50	NPT	2	10	1230	167 543 167	1.773	167 543 177	1.773

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)	z (mm)	z1 (mm)
16	50	61	28	8	112	82	72	36	25	35	47	6	86	43
20	50	61	28	8	114	82	72	36	25	35	47	6	80	40
25	58	74	32	8	131	106	85	43	25	44	62	6	95	48
32	68	80	36	8	154	106	98	49	25	44	62	6	110	55
40	84	95	45	9	180	131	118	59	45	57	74	8	132	66
50	97	102	51	9	203	131	135	68	45	57	74	8	157	79
63	124	117	65	9	258	152	176	88	45	66	86	8	210	105

Ball valves type 546



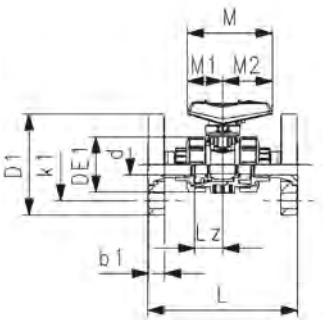
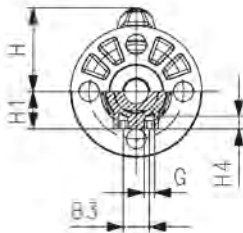
PROGEF Standard Ball Valve type 546 Pro
With backing flanges PP-St ANSI with PP-H

Model:

- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
75	65	2 1/2	10	5000	167 546 868	5.098	167 546 878	5.864
90	80	3	10	7000	167 546 869	6.400	167 546 879	8.291
110	100	4	10	11000	167 546 870	10.000	167 546 880	10.314

b1	B3	DE1	D1	G	H	H1	H4	k1	L	Lz	M	M1	M2	z
(mm)	(mm)	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
18	70	166	166	M8	234	85	15	140	290	68	270	64	206	167
20	70	200	200	M8	234	105	15	152	310	71	270	64	206	180
20	120	238	238	M12	234	123	22	190	350	82	320	64	206	215

Ball valves pneumatic type 251



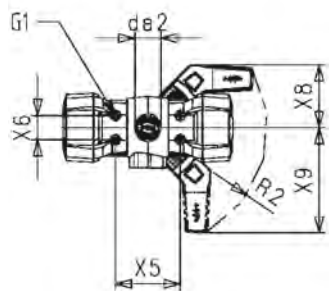
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double acting)
With manual override
With threaded sockets reinforced NPT

Model:

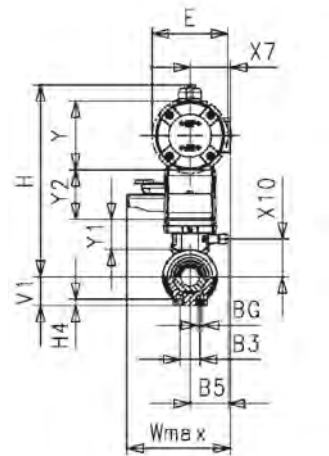
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

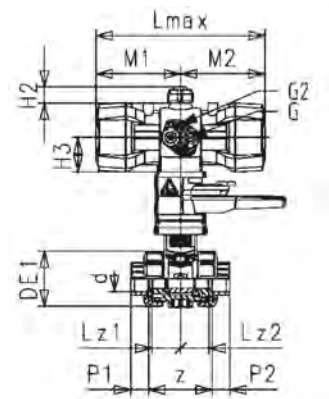
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 251 542	1.500	199 251 552	1.200
20	15	10	185	199 251 543	1.500	199 251 553	1.200
25	20	10	350	199 251 544	1.300	199 251 554	1.300
32	25	10	700	199 251 545	1.400	199 251 555	1.400
40	32	10	1000	199 251 546	2.500	199 251 556	2.500
50	40	10	1600	199 251 547	2.800	199 251 557	2.800
63	50	10	3100	199 251 548	3.700	199 251 558	3.700

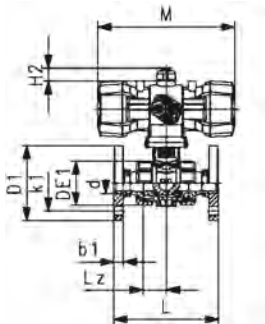
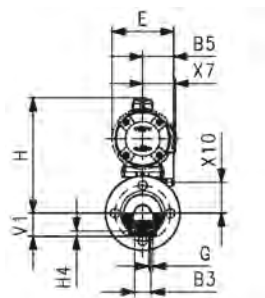
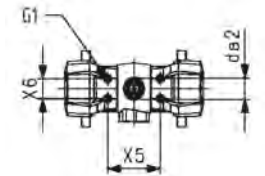


d	Actuator	DE1	V1	H4	M1	M2	G2	G	H3	Lz1	Lz2	Lmax	E	Y1
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	PPA08	50	27	12	64	64	M5	G 1/4	41	28	28	128	74	35
20	PPA08	50	27	12	64	64	M5	G 1/4	41	28	28	128	74	35
25	PPA08	58	30	12	64	64	M5	G 1/4	41	33	33	128	74	35
32	PPA08	68	36	12	64	64	M5	G 1/4	41	36	36	128	74	35
40	PPA15	84	44	15	83	83	M5	G 1/4	45	43	43	165	94	33
50	PPA15	97	51	15	83	83	M5	G 1/4	45	45	45	165	94	33
63	PPA40	124	64	15	92	92	M5	G 1/4	56	51	51	184	120	36



d	Y	Y2	H	X10	B3	BG	Wmax	G1	da2	X6	X5	X8	X9	R2	X7
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
16	75	60	215	35	25	M6	210	M5	33	30	80	78	132	R150	43
20	75	60	215	35	25	M6	210	M5	33	30	80	78	132	R150	43
25	75	60	219	35	25	M6	210	M5	33	30	80	78	132	R150	43
32	75	60	225	35	25	M6	210	M5	33	30	80	78	132	R150	43
40	88	60	244	33	45	M8	210	M5	33	30	80	78	132	R150	51
50	88	60	250	33	45	M8	210	M5	33	30	80	78	132	R150	51
63	111	60	288	36	45	M8	210	M5	33	30	80	78	132	R150	62

d	H2	P1	P2	z
(mm)	(mm)	(mm)	(mm)	(mm)
16	20	12	12	68
20	20	14	14	67
25	20	17	17	76
32	20	21	21	82
40	20	24	24	98
50	20	29	29	99
63	20	36	36	111



**PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With backing flanges PP-H ASME
Without manual override
5.6 bar control pressure**

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

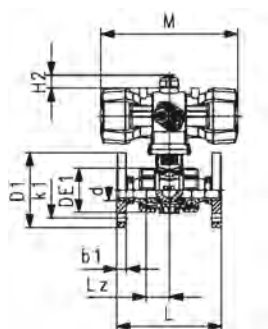
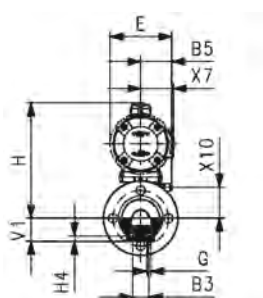
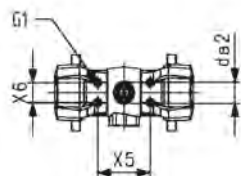
Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 1/2	10	5000	199 251 729	10.900	199 251 739	10.900
90	80	3	10	7000	199 251 730	13.600	199 251 740	13.600
110	100	4	10	11000	199 251 731	19.800	199 281 741	19.800

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
75	PPA80	18	70	28.5	166	33	166	142	M8	M5	277	20	15	140	290
90	PPA80	20	70	28.5	200	33	200	142	M8	M5	289	20	15	152	310
110	PPA80	20	120	28.5	238	33	238	142	M12	M5	324	20	22	190	350

d (mm)	Lz (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
75	68	343	85	80	30	74	119
90	71	343	105	80	30	74	131
110	82	343	123	80	30	74	145



**PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With backing flanges PP-H ASME
Without manual override
5.6 bar control pressure**

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

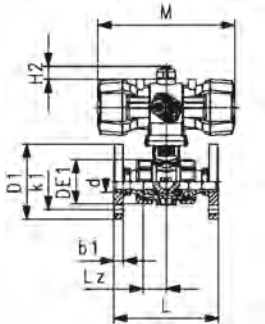
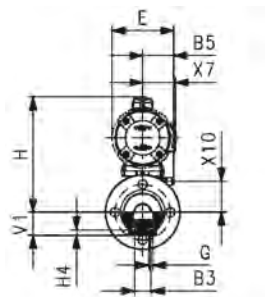
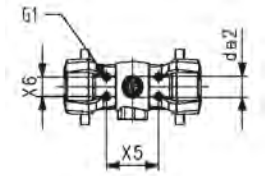
Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 1/2	10	5000	199 251 729	10.900	199 251 739	10.900
90	80	3	10	7000	199 251 730	13.600	199 251 740	13.600
110	100	4	10	11000	199 251 731	19.800	199 281 741	19.800

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
75	PPA80	18	70	28.5	166	33	166	142	M8	M5	277	20	15	140	290
90	PPA80	20	70	28.5	200	33	200	142	M8	M5	289	20	15	152	310
110	PPA80	20	120	28.5	238	33	238	142	M12	M5	324	20	22	190	350

d (mm)	Lz (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
75	68	343	85	80	30	74	119
90	71	343	105	80	30	74	131
110	82	343	123	80	30	74	145



PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail safe to open)
With backing flanges PP-H ASME
Without manual override
5.6 bar control pressure

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
75	65	10	5000	199 251 749	10.900	199 251 759	10.900
90	80	10	7000	199 251 750	13.600	199 251 760	13.600
110	100	10	11000	199 251 751	19.800	199 251 761	19.800

d	Actuator	b1	B3	B5	D1	da2	DE1	E	G	G1	H	H2	H4	k1	L
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)
75	PPA80	18	70	28.5	166	33	166	142	M8	M5	277	20	15	140	290
90	PPA80	20	70	28.5	200	33	200	142	M8	M5	289	20	15	152	310
110	PPA80	20	120	28.5	238	33	238	142	M12	M5	324	20	22	190	350

d	Lz	M	V1	X5	X6	X7	X10
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
75	68	343	85	80	30	74	119
90	71	343	105	80	30	74	131
110	82	343	123	80	30	74	145



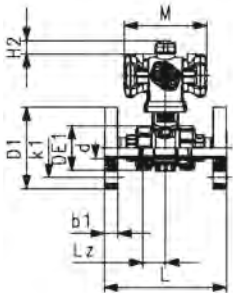
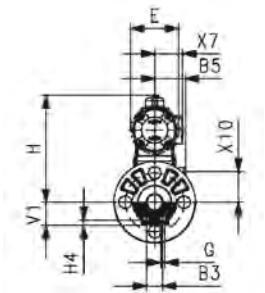
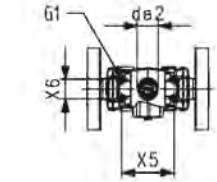
**PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)**
With backing flanges PP-St ASME with PP-H
Without manual override
5.6 bar control pressure

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
75	65	2 1/2	10	5000	199 251 769	9.700	199 251 779	9.700
90	80	3	10	7000	199 251 770	13.000	199 251 780	13.000
110	100	4	10	11000	199 251 771	18.000	199 251 781	18.000

d	Actuator	b1	B3	B5	da2	D1	DE1	E	G	G1	H	H2	H4	k1	L
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
75	PPA40	18	70	28.5	33	166	166	142	M8	M5	277	20	15	140	290
90	PPA40	20	70	28.5	33	200	200	142	M8	M5	289	20	15	152	310
110	PPA80	20	120	28.5	33	238	238	142	M12	M5	324	20	22	190	350

d	Lz	M	V1	X5	X6	X7	X10
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
75	68	184	85	80	30	74	119
90	71	184	105	80	30	74	131
110	82	261	123	80	30	74	145

Ball valves pneumatic type 286



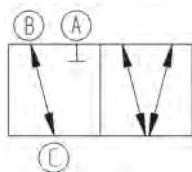
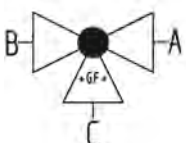
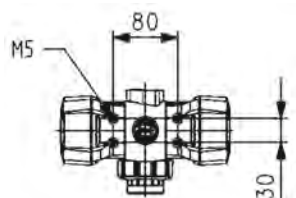
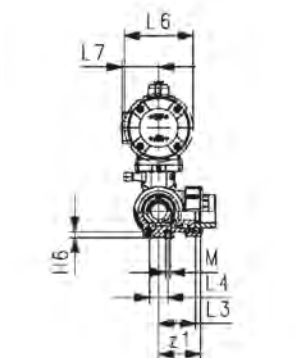
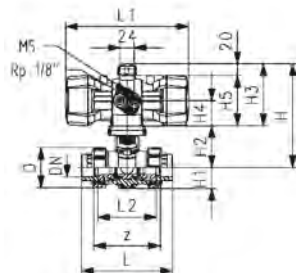
PROGEF Standard 3-Way ball valve type 543 Pro P Horizontal/T-port Without manual override With threaded sockets reinforced NPT

Model:

- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



d (mm)	DN (mm)	Thread	Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (L/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	NPT		3/8	10	140	199 296 342	1.031	199 296 352	1.031
20	15	NPT		1/2	10	200	199 296 343	1.035	199 296 353	1.035
25	20	NPT		3/4	10	470	199 296 344	1.124	199 296 354	1.124
32	25	NPT		1	10	793	199 296 345	1.245	199 296 355	1.245
40	32	NPT		1 1/4	10	1290	199 296 346	2.210	199 296 356	2.210
50	40	NPT		1 1/2	10	1910	199 296 347	2.499	199 296 357	2.499
63	50	NPT		2	10	3100	199 296 348	3.391	199 296 358	3.391

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	112	159	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	114	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	131	211	85	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	154	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	180	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	203	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	258	246	176	88	45	120

d (mm)	L7 (mm)	M (mm)	z (mm)	z1 (mm)
16	32	6	86	43
20	32	6	80	40
25	38	6	95	48
32	38	6	110	55
40	47	8	132	66
50	47	8	157	79
63	47	8	210	105



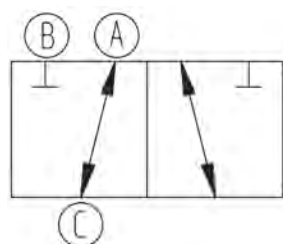
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/L-port
DA (Double acting)
Without manual override
With threaded sockets reinforced NPT

Model:

- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



d (mm)	L7 (mm)	M	z (mm)	z1 (mm)
16	32	6	86	43
20	32	6	80	40
25	32	6	95	48
32	32	6	110	55
40	38	8	132	66
50	38	8	157	79
63	47	8	210	105



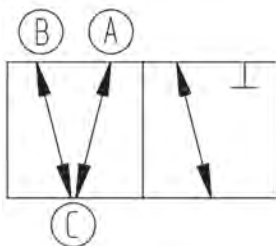
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
DA (Double acting)
Without manual override
With threaded sockets reinforced NPT

Model:

- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



d (mm)	L7 (mm)	M	z (mm)	z1 (mm)
16	32	6	86	43
20	32	6	80	40
25	32	6	95	48
32	32	6	110	55
40	38	8	132	66
50	38	8	157	79
63	47	8	210	105



PROGEF Standard 3-Way ball valve type 543 Pro P

Horizontal/L-port

Without manual override

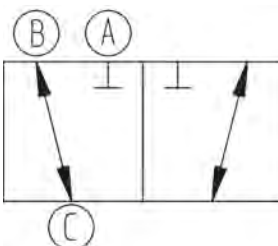
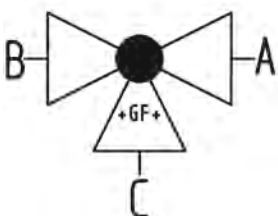
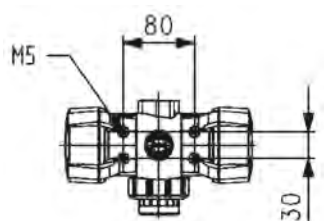
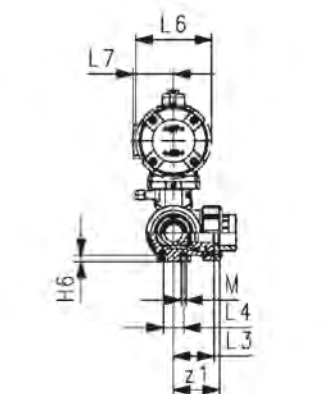
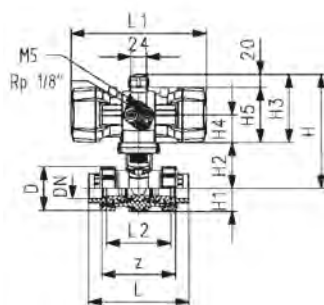
With threaded sockets reinforced NPT

Model:

- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

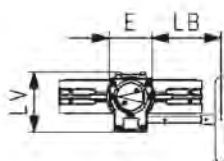
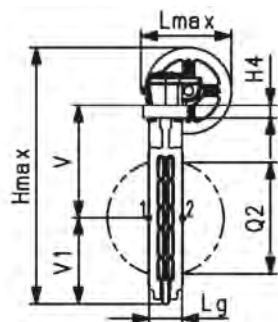
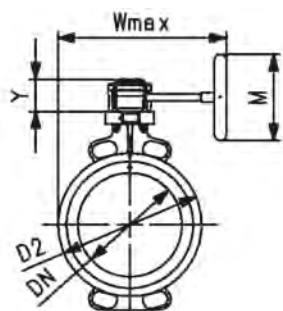


d (mm)	DN (mm)	Thread	Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	NPT		3/8	10	50	199 296 322	1.031	199 296 332	1.031
20	15	NPT		1/2	10	75	199 296 323	1.035	199 296 333	1.035
25	20	NPT		3/4	10	150	199 296 324	1.125	199 296 334	1.125
32	25	NPT		1	10	280	199 296 325	1.250	199 296 335	1.250
40	32	NPT		1 1/4	10	480	199 296 326	2.217	199 296 336	2.217
50	40	NPT		1 1/2	10	620	199 296 327	2.513	199 296 337	2.513
63	50	NPT		2	10	1230	199 296 328	3.420	199 296 338	3.420

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	112	159	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	114	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	131	211	85	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	154	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	180	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	203	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	258	246	176	88	45	120

d (mm)	L7 (mm)	M (mm)	z (mm)	z1 (mm)
16	32	6	86	43
20	32	6	80	40
25	38	6	95	48
32	38	6	110	55
40	47	8	132	66
50	47	8	157	79
63	47	8	210	105

Butterfly valves type 565



Wafer-style intermediate installation butterfly valve type 565 manual PVDF/PA-GF

With gear box

Wafer style metric/ANSI/BS/JIS

Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand (lockable hand lever), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	199 565 200	3.0	199 565 220	3.1
75	65	2 ½	16	2530	199 565 201	3.2	199 565 221	3.3
90	80	3	16	4020	199 565 202	3.4	199 565 222	3.5
110	100	4	16	5850	199 565 203	4.2	199 565 223	4.3
140	125	5	16	11900	199 565 204	4.7	199 565 224	5.0
160	150	6	16	18050	199 565 205	5.5	199 565 225	5.8
225	200	8	10	43667	199 565 206	6.7	199 565 226	7.2
280	250	10	10	62333	199 565 207	12.7	199 565 227	13.4
315	300	12	6	94500	199 565 208	16.5	199 565 228	17.6

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	LB (mm)	LV (mm)	M (mm)	Y (mm)
63	100.0	238.5	303.0	169.0	23	133.5	63.0	43	80	128.0	112.5	160	61.5
75	121.0	246.0	329.0	169.0	23	140.0	82.0	46	80	128.0	112.5	160	61.5
90	138.0	248.5	341.5	169.0	23	146.0	89.0	46	80	128.0	112.5	160	61.5
110	158.5	258.5	377.5	169.0	23	166.5	104.0	52	80	128.0	112.5	160	61.5
140	187.0	272.0	405.0	169.0	23	180.0	118.0	56	80	128.0	112.5	160	61.5
160	213.0	285.5	426.5	169.0	23	189.0	130.5	56	80	128.0	112.5	160	61.5
225	267.0	312.5	475.5	169.0	23	209.5	159.0	60	80	128.0	112.5	160	61.5
280	325.5	360.5	603.0	212.5	23	262.5	195.5	68	100	135.5	130.0	200	68.5
315	380.0	387.5	659.5	212.5	23	284.5	230.5	78	100	135.5	130.0	200	68.5

d (mm)	Q2 (mm)
63	28.5
75	44.0
90	63.5
110	84.0
140	110.5
160	137.5
225	190.5
280	239.0
315	285.5



Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF

Bare shaft

Flange standard metric/ANSI/BS/JIS Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

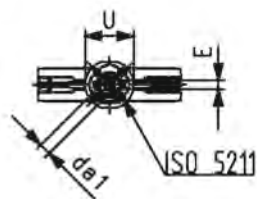
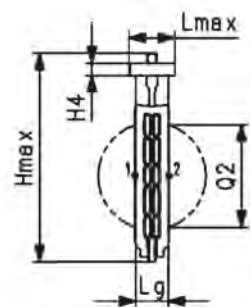
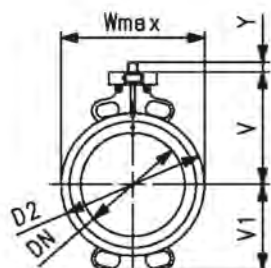
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

- Individual configuration of the valve possible
- Hand (lockable), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

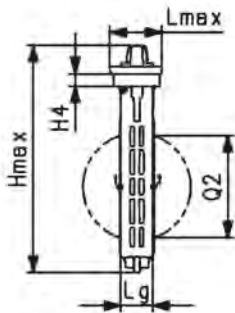
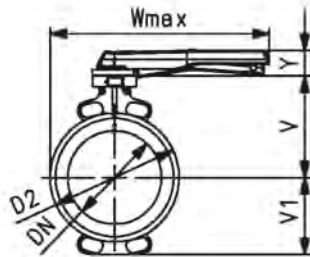
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	Acc.to ISO 5211	EPDM Code	Weight (kg)
63	50	2	16	1445	F07	199 565 100	0.9
75	65	2 1/2	16	2530	F07	199 565 101	1.1
90	80	3	16	4020	F07	199 565 102	1.3
110	100	4	16	5850	F07	199 565 103	2.0
140	125	5	16	11900	F07	199 565 104	2.6
160	150	6	16	18050	F07	199 565 105	3.7
225	200	8	10	43667	F07	199 565 106	4.7
280	250	10	10	62333	F10	199 565 107	8.8
315	300	12	6	94500	F10	199 565 108	12.6

d (mm)	FKM Code	Weight (kg)
63	199 565 120	1.0
75	199 565 121	1.2
90	199 565 122	1.4
110	199 565 123	2.2
140	199 565 124	2.9
160	199 565 125	3.8
225	199 565 126	5.2
280	199 565 127	9.5
315	199 565 128	13.7

d (mm)	D2 (mm)	Wmax (mm)	Lmax (mm)	Hmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	da1 (mm)	E (mm)	U (mm)	Y (mm)	Q2 (mm)
63	100.0	118.5	85.5	222.5	23.0	133.5	63.0	43.0	14.1	11.0	90.0	27.0	28.5
75	121.0	132.5	85.5	248.5	23.0	140.0	82.0	46.0	14.1	11.0	90.0	27.0	44.0
90	138.0	138.0	85.5	261.0	23.0	146.0	89.0	46.0	14.1	11.0	90.0	27.0	63.5
110	158.5	158.5	85.5	286.0	23.0	166.5	104.0	52.0	18.1	14.0	90.0	16.0	84.0
140	187.0	187.0	85.5	313.5	23.0	180.0	118.0	56.0	18.1	14.0	90.0	16.0	110.5
160	213.0	213.0	85.5	337.5	23.0	189.0	130.5	56.0	22.2	17.0	90.0	19.0	137.5
225	267.0	267.0	85.5	387.0	23.0	209.5	159.0	60.0	22.2	17.0	90.0	18.5	190.5
280	325.5	325.5	125.0	498.5	23.0	262.5	195.5	68.0	28.2	22.0	125.0	40.5	239.0
315	380.0	380.0	125.0	555.0	23.0	284.5	230.5	78.0	28.2	22.0	125.0	40.5	285.5



Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF

With hand lever

Flange standard metric/ANSI/BS/JIS

Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Lockable ergonomic lever
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

- Individual configuration of the valve possible
- Pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
63	2	50	16	1445	199 565 000	1.3	199 565 020	1.4
75	2 1/2	65	16	2530	199 565 001	1.5	199 565 021	1.6
90	3	80	16	4020	199 565 002	1.7	199 565 022	1.8
110	4	100	16	5850	199 565 003	2.5	199 565 023	2.7
140	5	125	16	11900	199 565 004	3.1	199 565 024	3.3
160	6	150	16	18050	199 565 005	4.0	199 565 025	4.3
225	8	200	10	43667	199 565 006	5.3	199 565 026	5.7

d	D2	Wmax	Hmax	Lmax	H4	V	V1	Lg	M1	M2	Y	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	100.0	264.0	249.5	96.0	23.0	133.5	63.0	43.0	35.5	204.5	53.0	28.5
75	121.0	271.0	275.5	96.0	23.0	140.0	82.0	46.0	35.5	204.5	53.0	44.0
90	138.0	273.5	288.0	96.0	23.0	146.0	89.0	46.0	35.5	204.5	53.0	63.5
110	158.5	334.0	324.0	96.0	23.0	166.5	104.0	52.0	35.5	254.5	53.0	84.0
140	187.0	348.0	351.0	96.0	23.0	180.0	118.0	56.0	35.5	254.5	53.0	110.5
160	213.0	426.0	372.5	96.0	23.0	189.0	130.5	56.0	35.5	319.5	53.0	137.5
225	267.0	453.0	422.0	96.0	23.0	209.5	159.0	60.0	35.5	319.5	53.0	190.5

Butterfly valves type 567



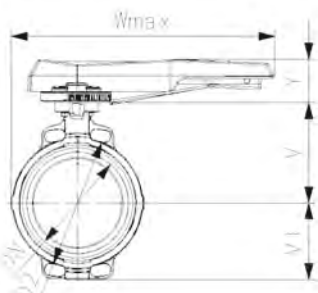
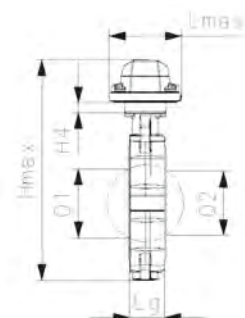
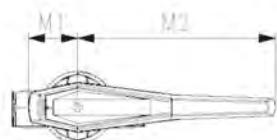
PROGEF Standard Wafer-style intermediate installation butterfly valve type 567 With hand lever Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



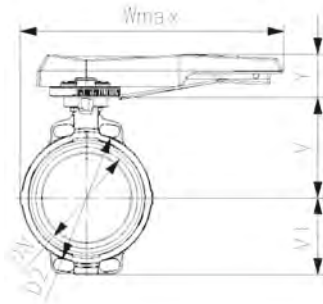
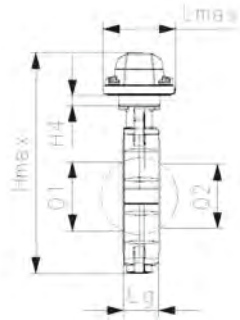
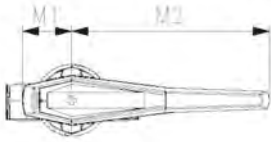
d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	740	167 567 002	1.170	167 567 022	1.627
75	2 ½	65	10	1500	167 567 003	1.254	167 567 023	1.061
90	3	80	10	2400	167 567 004	1.384	167 567 024	1.404
110	4	100	10	3800	167 567 005	1.961	167 567 025	1.998
140	5	125	10	8600	167 567 006	2.367	167 567 026	2.429
160	6	150	10	11400	167 567 007	3.741	167 567 027	3.246
225	8	200	10	19900	167 567 008	5.545	167 567 028	5.609
280	10	250	6	34000	167 567 009	11.061	167 567 029	11.841
315	12	300	6	50000	167 567 010	16.548	167 567 030	13.245

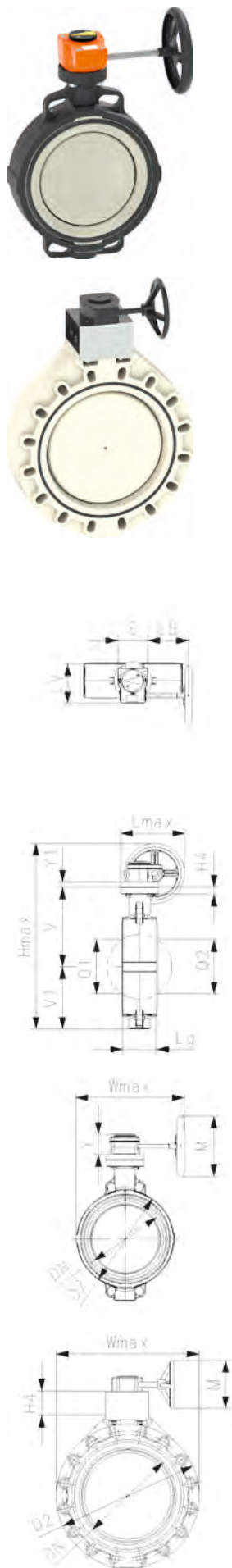
d	PTFE	Weight
(mm)	Code	(kg)
63	167 567 202	1.170
75	167 567 203	1.254
90	167 567 204	1.384
110	167 567 205	1.961
140	167 567 206	2.367
160	167 567 207	3.741
225	167 567 208	5.545
280	167 567 209	11.061
315	167 567 210	16.548

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y	M1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	278.9	115.2	269.0	90	133.3	23	78.8	45	104	40		125	66.8	64.7
75	291.8	115.2	281.8	90	139.9	23	85.1	46	115	54	35	145	66.8	64.7
90	303.6	115.2	273.9	90	145.6	23	91.2	49	131	67	50	160	66.8	64.7
110	342.2	115.2	336.0	90	166.4	23	105.7	56	161	88	74	180	70.1	64.9
140	368.9	115.2	349.0	90	180.0	23	118.8	64	187	113	97	210	70.1	64.9
160	390.0	115.2	363.0	90	189.0	23	130.9	72	215	139	123	240	70.1	64.9
225	455.1	149.4	543.0	90	210.5	23	158.3	73	267	178	169	295	86.3	103.6
280	555.0	149.4	574.0	125	262.6	23	206.1	113	329	210	207	350	86.3	103.6
315	599.4	149.4	599.7	125	284.3	23	228.8	113	379	256	253	400	86.3	103.6

d	M2
(mm)	(mm)
63	205.5
75	205.5
90	205.5
110	255.5
140	255.5

d (mm)	M2 (mm)
160	255.5
225	409.5
280	409.5
315	409.5





PROGEF Standard Wafer-style intermediate installation butterfly valve type 567
With gear box
Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

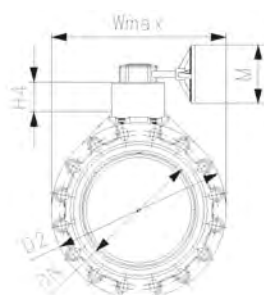
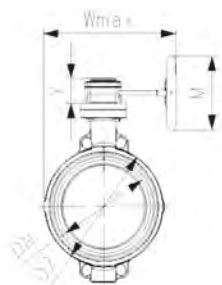
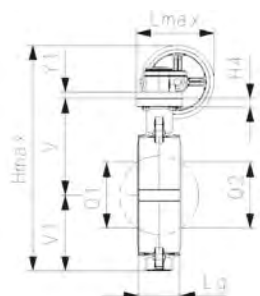
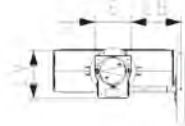
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	740	167 567 042	3.003	167 567 062	3.007
75	2 ½	65	10	1500	167 567 043	2.781	167 567 063	3.099
90	3	80	10	2400	167 567 044	3.301	167 567 064	3.229
110	4	100	10	3800	167 567 045	3.736	167 567 065	3.741
140	5	125	10	8600	167 567 046	2.770	167 567 066	4.243
160	6	150	10	11400	167 567 047	4.969	167 567 067	5.038
225	8	200	10	19900	167 567 048	8.538	167 567 068	6.539
280	10	250	8	34000	167 567 049	12.884	167 567 069	13.074
315	12	300	8	50000	167 567 050	16.442	167 567 070	16.066
355	14	350	6	90000	167 567 051	40.000	167 567 071	40.000
400	16	400	6	115000	167 567 052	50.000	167 567 072	50.000
450	18	450	5	155000	167 567 053	70.000	167 567 073	70.000
500	20	500	4	204000	167 567 054	90.000	167 567 074	90.000
630	24	600	4	265000	167 567 055	125.000	167 567 075	125.000

d	PTFE	Weight
(mm)	Code	(kg)
63	167 567 242	3.003
75	167 567 243	2.781
90	167 567 244	3.301
110	167 567 245	3.736
140	167 567 246	2.770
160	167 567 247	4.969
225	167 567 248	8.538
280	167 567 249	12.884
315	167 567 250	16.442
355	167 567 251	40.000
400	167 567 252	50.000
450	167 567 253	70.000
500	167 567 254	90.000
630	167 567 255	125.000

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y1	M
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	319.4	169.1	240.2	90	133.3	23	78.8	45	104	40		125		160
75	332.3	169.1	247.3	90	139.9	23	85.1	46	115	54	35	145		160
90	344.1	169.1	249.4	90	145.6	23	91.2	49	131	67	50	160		160
110	379.4	169.1	261.5	90	166.4	23	105.7	56	161	88	74	180		160
140	406.1	169.1	274.5	90	180.0	23	118.8	64	187	113	97	210		160
160	427.2	169.1	288.5	90	189.0	23	130.9	72	215	139	123	240		160
225	476.1	169.1	267.0	90	210.5	23	158.3	73	267	178	169	295		160
280	613.0	212.6	329.0	125	262.6	23	206.1	113	329	210	207	350	17	200
315	657.4	212.6	380.4	125	284.3	23	228.8	113	379	256	253	400	17	200
355	805.0	217.0	535.0	180	410.0	100	268.0	129	535	325	305	460		200



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k	Y1	M
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
400	865.0	245.0	595.0	180	435.0	100	300.0	169	595	353	350	515		200
450	992.0	275.0	635.0	220	520.0	130	320.0	179	635	393	390	565		250
500	1083.0	321.0	700.0	220	550.0	130	350.0	190	700	444	440	620		300
630	1216.0	331.0	813.0	220	610.0	130	420.0	209	813	530	527	725		300

d	Y	E	LV	LB
(mm)	(mm)	(mm)	(mm)	(mm)
63	61.2	80	112.3	129.5
75	61.2	80	112.3	129.5
90	61.2	80	112.3	129.5
110	61.2	80	112.3	129.5
140	61.2	80	112.3	129.5
160	61.2	80	112.3	129.5
225	61.2	80	112.3	129.5
280	68.4	100	130.0	134.0
315	68.4	100	130.0	134.0
355	62.0	130	146.0	122.0
400	62.0	130	174.0	122.0
450	62.0	130	185.0	203.0
500	70.0	174	201.0	151.0
630	70.0	74	210.0	151.0



PROGEF Standard Wafer-style intermediate installation butterfly valve type 567

Bare shaft

Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211
- Interface F12 for the dimensions DN350-400 according to DIN/ISO 5211
- Interface F14 for the dimensions DN450-600 according to DIN/ISO 5211

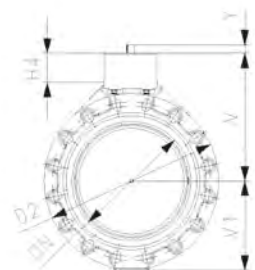
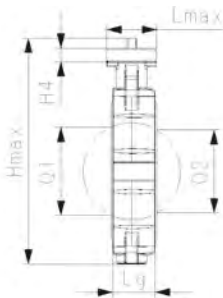
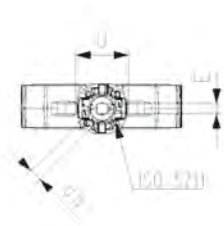
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	167 567 802	0.699	167 567 822	0.721
75	2 ½	65	10	1500	167 567 803	0.793	167 567 823	0.804
90	3	80	10	2400	167 567 804	0.913	167 567 824	0.939
110	4	100	10	3800	167 567 805	1.409	167 567 825	1.450
140	5	125	10	8600	167 567 806	1.831	167 567 826	1.929
160	6	150	10	11400	167 567 807	2.641	167 567 827	2.713
225	8	200	10	19900	167 567 808	4.110	167 567 828	4.186
280	10	250	8	34000	167 567 809	9.412	167 567 829	10.251
315	12	300	8	50000	167 567 810	13.054	167 567 830	13.251
355	14	350	6	90000	167 567 811	35.000	167 567 831	35.000
400	16	400	6	115000	167 567 812	45.000	167 567 832	45.000
450	18	450	5	155000	167 567 813	60.000	167 567 833	60.000
500	20	500	4	204000	167 567 814	75.000	167 567 834	75.000
630	24	600	4	265000	167 567 815	110.000	167 567 835	110.000

d (mm)	Size (inch)	DN (mm)	PTFE Code	Weight (kg)
63	2	50	167 567 840	0.699
75	2 ½	65	167 567 841	0.793
90	3	80	167 567 842	0.913
110	4	100	167 567 843	1.409
140	5	125	167 567 844	1.831
160	6	150	167 567 845	2.641
225	8	200	167 567 846	4.110
280	10	250	167 567 847	9.412
315	12	300	167 567 848	13.054
355	14	350	167 567 849	35.000
400	16	400	167 567 850	45.000
450	18	450	167 567 851	60.000
500	20	500	167 567 852	75.000
630	24	600	167 567 853	110.000

d (mm)	Size (inch)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)
63	2	50	238.3	84.8	118.4	90	133.3	23	78.8	45	104	40		125
75	2 ½	65	251.2	84.8	132.5	90	139.9	23	85.1	46	115	54	35	145
90	3	80	263.0	84.8	136.8	90	145.6	23	91.2	49	131	67	50	160
110	4	100	287.5	84.8	161.0	90	166.4	23	105.7	56	161	88	74	180
140	5	125	314.2	84.8	187.0	90	180.0	23	118.8	64	187	113	97	210
160	6	150	338.3	84.8	215.0	90	189.0	23	130.9	72	215	139	123	240
225	8	200	387.2	84.8	267.0	90	210.5	23	158.3	73	267	178	169	295
280	10	250	508.9	125.0	329.0	125	262.6	23	206.1	113	329	210	207	350
315	12	300	553.3	125.0	380.4	125	284.3	23	228.8	113	379	256	253	400
355	14	350	709.0	180.0	535.0	180	410.0	100	268.0	129	535	325	305	460



d	Size	DN	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	k
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
400	16	400	766.0	180.0	595.0	180	435.0	100	300.0	169	595	353	350	515
450	18	450	875.0	220.0	635.0	220	520.0	130	320.0	179	635	393	390	565
500	20	500	935.0	220.0	700.0	220	550.0	130	350.0	190	700	444	440	620
630	24	600	1065.0	220.0	813.0	220	610.0	130	420.0	209	813	530	527	725

d	Size	DN	Y	E	da1
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
63	2	50	26.2	11	13.5
75	2 1/2	65	26.2	11	13.5
90	3	80	26.2	11	13.5
110	4	100	15.4	14	17.3
140	5	125	15.4	14	17.3
160	6	150	18.4	17	21.1
225	8	200	18.4	17	21.1
280	10	250	40.2	22	27.0
315	12	300	40.2	22	27.0
355	14	350	31.0	22	28.5
400	16	400	31.0	27	36.0
450	18	450	35.0	27	36.0
500	20	500	35.0	27	36.0
630	24	600	35.0	36	45.0

Butterfly valves type 578



PROGEF Standard Lug-style end installation butterfly valve type 578

Bare Shaft

Flange standard ANSI/ASME

Model:

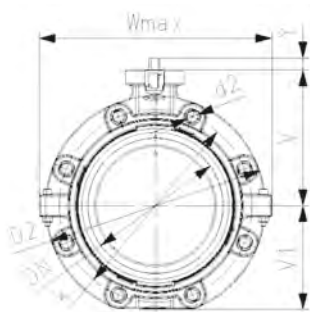
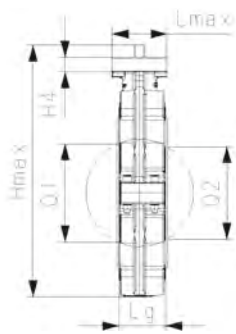
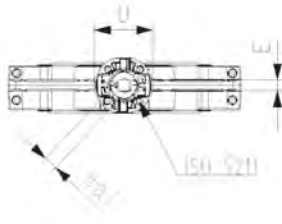
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
63	2	50	10	740	167 578 902	1.299	167 578 922	1.299
75	2 1/2	65	10	1500	167 578 903	1.456	167 578 923	1.456
90	3	80	10	2400	167 578 904	1.701	167 578 924	1.701
110	4	100	10	3800	167 578 905	2.606	167 578 925	2.606
140	5	125	10	8600	167 578 906	4.120	167 578 926	4.120
160	6	150	10	11400	167 578 907	5.881	167 578 927	5.881
200	8	200	10	19900	167 578 908	7.125	167 578 928	7.125
250	10	250	8	34000	167 578 909	17.880	167 578 929	17.880
315	12	300	8	50000	167 578 910	24.416	167 578 930	24.416

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	238.3	84.8	159.5	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	251.2	84.8	166.1	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	263.0	84.8	171.8	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	288.9	84.8	181.4	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	318.1	84.8	195.4	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9
160	341.9	84.8	207.4	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	241.3
200	390.4	84.8	228.9	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	298.5
250	511.5	125.0	304.6	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	362.0
315	560.9	125.0	325.4	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	431.8

d	da1
(mm)	(mm)
63	13.5
75	13.5
90	13.5
110	17.3
140	17.3
160	21.1
200	21.1
250	27.0
315	27.0



PROGEF Standard Lug-style end installation butterfly valve type 578
With hand lever
Flange standard ANSI/ASME

Model:

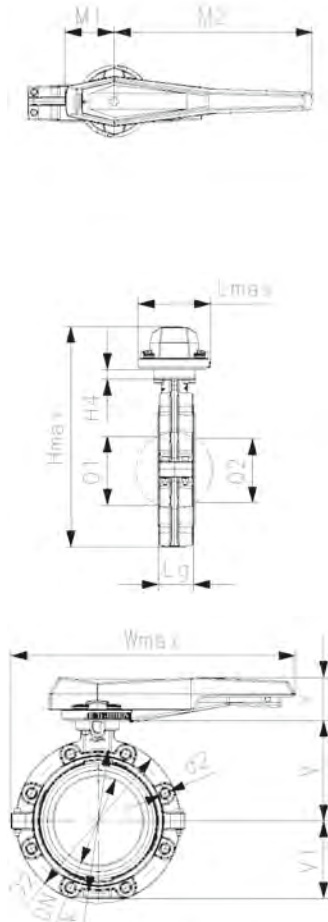
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	167 578 102	1.800	167 578 122	1.800
75	2 ½	65	10	1500	167 578 103	1.895	167 578 123	1.895
90	3	80	10	2400	167 578 104	2.251	167 578 124	2.251
110	4	100	10	3800	167 578 105	3.146	167 578 125	3.146
140	5	125	10	8600	167 578 106	4.660	167 578 126	4.660
160	6	150	10	11400	167 578 107	6.430	167 578 127	6.430
200	8	200	10	19900	167 578 108	8.625	167 578 128	8.625
250	10	250	8	34000	167 578 109	19.528	167 578 129	19.528
315	12	300	8	50000	167 578 110	26.106	167 578 130	26.106

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2 (mm)	k (mm)
63	278.9	115.2	287.8	90	133.3	23	78.8	44.7	160	40		UNC 5/8	125
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	145
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	160
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	180
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	210
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	240
200	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	295
250	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	350
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	400

d (mm)	M1 (mm)	M2 (mm)
63	63.7	205.3
75	63.7	205.3
90	63.7	205.3
110	63.7	255.2
140	63.7	255.2
160	63.7	255.2
200	101.7	408.1
250	101.7	408.1
315	101.7	408.1

Butterfly valves electric type 147

Butterfly valves pneumatic type 244



PROGEF Standard Lug-style end installation butterfly valve type 244 With pneumatic actuator - fail safe to close (FC) Without manual override Flange standard ANSI/ASME

Model:

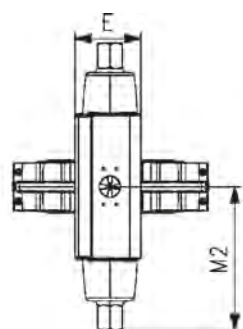
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

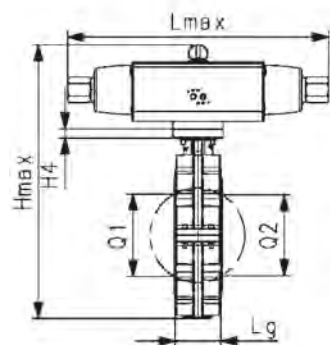
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

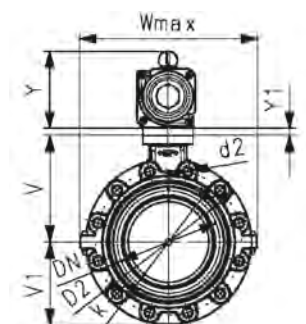
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	740	199 244 282	3.499	199 244 302	3.499
75	2 ½	65	10	1500	199 244 283	3.656	199 244 303	3.656
90	3	80	10	2400	199 244 284	4.692	199 244 304	4.692
110	4	100	10	3800	199 244 285	6.406	199 244 305	6.406
140	5	125	10	8600	199 244 286	9.222	199 244 306	9.222
160	6	150	10	11400	199 244 287	12.902	199 244 307	12.902
225	8	200	10	19900	199 244 288	16.691	199 244 308	16.691
280	10	250	8	34000	199 244 289	33.880	199 244 309	33.880
315	12	300	8	50000	199 244 290	43.985	199 244 310	43.985



d	Size	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
63	2	328.1	274.4	165	90	133.3	70	78.8	44.7	160	40		UNC 5/8
75	2 ½	341.0	274.4	182	90	139.9	70	85.1	45.7	180	54	35	UNC 5/8
90	3	365.7	325.2	210	90	145.6	78	91.2	48.7	195	67	50	UNC 5/8
110	4	388.3	359.6	240	90	166.0	86	107.5	55.6	226	88	74	UNC 5/8
140	5	452.2	418.0	272	90	180.0	96	122.7	63.5	258	113	97	UNC 3/4
160	6	476.6	434.0	280	90	189.0	106	134.5	71.5	284	139	123	UNC 3/4
225	8	532.0	498.4	360	90	210.5	118	161.5	72.5	341	178	169	UNC 3/4
280	10	679.5	646.0	440	125	264.4	148	206.9	113.2	412	210	207	UNC 7/8
315	12	749.0	681.0	510	125	285.2	157	235.5	114.6	482	256	253	UNC 7/8



d	Size	k	Y	E	Y1	M2
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)
63	2	120.7	98.2	70.4	15.0	137.2
75	2 ½	139.7	98.2	70.4	15.0	137.2
90	3	152.4	111.1	83.3	15.0	162.6
110	4	190.5	114.8	87.0		179.8
140	5	215.9	149.5	107.5		209.0
160	6	241.3	153.1	111.1		217.0
225	8	298.5	160.0	118.0		249.2
280	10	362.0	190.0	148.0	18.2	323.0
315	12	431.8	210.1	168.0	18.2	340.5



PROGEF Standard Lug-style, end installation butterfly valve type 244

With pneumatic actuator - fail safe to open (FO)

Without manual override

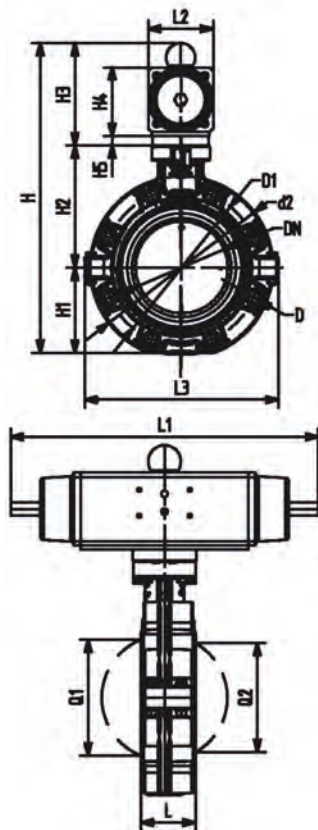
Flange standard ANSI/ASME

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

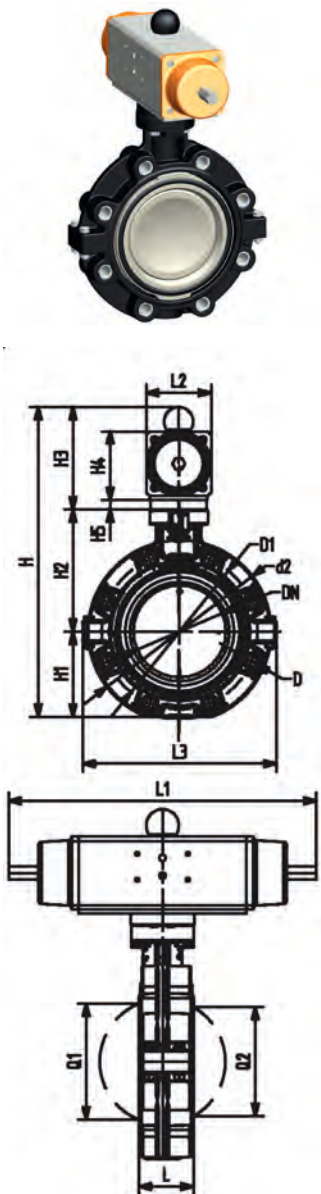
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)



d	Size	DN	PN	kv-value	EPDM	FKM
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	Code
				(l/min)		
63	2	50	10	740	199 244 322	199 244 342
75	2 ½	65	10	1500	199 244 323	199 244 343
90	3	80	10	2400	199 244 324	199 244 344
110	4	100	10	3800	199 244 325	199 244 345
140	5	125	10	8600	199 244 326	199 244 346
160	6	150	10	11400	199 244 327	199 244 347
225	8	200	10	19900	199 244 328	199 244 348
280	10	250	8	34000	199 244 329	199 244 349
315	12	300	5	50000	199 244 330	199 244 350

d	Size	Actuator unit	d2	D	D1	H	H1	H2	H3	H4	H5	L	L1
(mm)	(inch)	type	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	2	PA-30 FO	160	UNC 5/8	120.6	328	77	134	117	70	15	45	276
75	2 ½	PA-30 FO	180	UNC 5/8	139.7	340	83	140	117	70	15	46	276
90	3	PA-35 FO	195	UNC 5/8	152.4	361	89	146	126	78	15	49	326
110	4	PA-40 FO	226	UNC 5/8	190.5	402	106	167	129	86		56	370
140	5	PA-45 FO	258	UNC 3/4	215.9	441	121	181	139	96		64	411
160	6	PA-50 FO	284	UNC 3/4	241.3	471	133	189	149	106		72	423
225	8	PA-55 FO	341	UNC 3/4	298.4	530	159	210	161	118		73	452
280	10	PA-70 FO	412	UNC 7/8	362.0	660	205	264	191	148		113	648
315	12	PA-70 FO	482	UNC 7/8	431.8	715	234	285	196	157		113	663

d	Size	L2	L3	Q1	Q2
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
63	2	65	165	40	
75	2 ½	65	182	54	35
90	3	72	210	67	50
110	4	80	240	88	74
140	5	90	272	113	97
160	6	100	300	139	123
225	8	112	360	178	169
280	10	137	440	210	207
315	12	145	510	256	253



PROGEF Standard Lug-style, end installation butterfly valve type 244

With pneumatic actuator - double acting (DA)

Without manual override

Flange standard ANSI/ASME

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

d	Size	DN	PN	kv-value	EPDM	FKM
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	Code
				(l/min)		
63	2	50	10	740	199 244 362	199 244 382
75	2 ½	65	10	1500	199 244 363	199 244 383
90	3	80	10	2400	199 244 364	199 244 384
110	4	100	10	3800	199 244 365	199 244 385
140	5	125	10	8600	199 244 366	199 244 386
160	6	150	10	11400	199 244 367	199 244 387
225	8	200	10	19900	199 244 368	199 244 388
280	10	250	8	34000	199 244 369	199 244 389
315	12	300	5	50000	199 244 370	199 244 390

d	Size	Actuator unit	d2	D	D1	H	H1	H2	H3	H4	H5	L	L1
(mm)	(inch)	type	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	2	PA-35 DA	160	UNC 5/8	120.6	318	77	134	107	60	15	45	177
75	2 ½	PA-35 DA	180	UNC 5/8	139.7	330	83	140	107	60	15	46	177
90	3	PA-40 DA	195	UNC 5/8	152.4	348	89	146	113	66	15	49	190
110	4	PA-45 DA	226	UNC 5/8	190.5	384	104	167	111	78		56	235
140	5	PA-45 DA	258	UNC 3/4	215.9	413	121	181	111	78		64	235
160	6	PA-55 DA	284	UNC 3/4	241.3	461	133	189	139	96		72	279
225	8	PA-55 DA	341	UNC 3/4	298.4	508	159	210	139	96		73	279
280	10	PA-65 DA	412	UNC 7/8	362.0	630	205	264	161	118		113	350
315	12	PA-70 DA	482	UNC 7/8	431.8	692	234	285	173	130		113	381

d	Size	L2	L3	Q1	Q2
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
63	2	55	165	40	
75	2 ½	55	182	54	35
90	3	60	210	67	50
110	4	72	240	88	74
140	5	72	272	113	97
160	6	90	300	139	123
225	8	90	360	178	169
280	10	112	440	210	207
315	12	124	510	256	253



Lug-style end installation butterfly valve Type 244 PVC-U
FC (Fail safe to close)
Flange standard ANSI/ASME

Model:

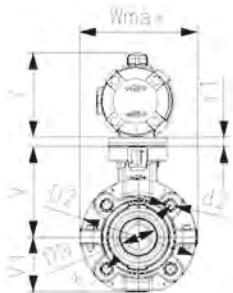
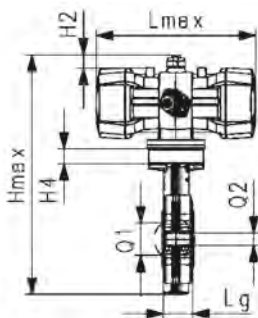
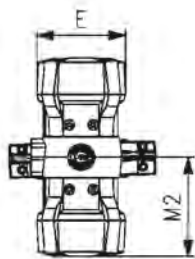
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 244 602	3.499	199 244 622	3.499
75	2 1/2	65	10	199 244 603	3.656	199 244 623	3.656
90	3	80	10	199 244 604	4.692	199 244 624	4.692
110	4	100	10	199 244 605	6.406	199 244 625	6.406
140	5	125	10	199 244 606	9.222	199 244 626	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	338.1	245.5	165.0	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182.0	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210.0	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240.0	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272.0	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



Lug-style end installation butterfly valve Type 244 PVC-U

FO (Fail safe to open)

Flange standard ANSI/ASME

Model:

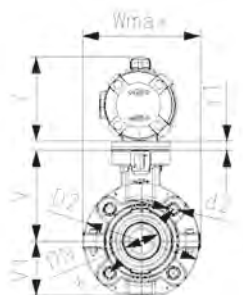
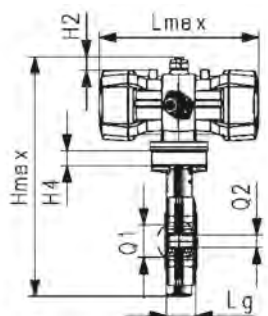
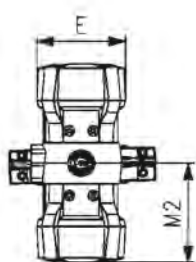
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

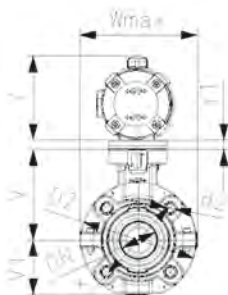
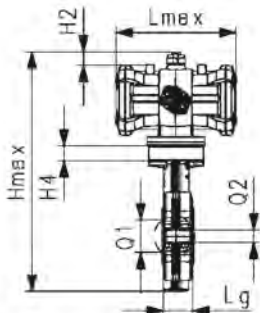
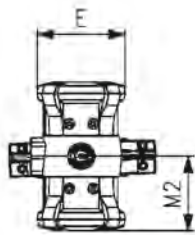
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 244 632	3.499	199 244 642	3.499
75	2 ½	65	10	199 244 633	3.656	199 244 643	3.656
90	3	80	10	199 244 634	4.692	199 244 644	4.692
110	4	100	10	199 244 635	6.406	199 244 645	6.406
140	5	125	10	199 244 636	9.222	199 244 646	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



Lug-style end installation butterfly valve Type 244 PVC-U
DA (Double acting)
Flange standard ANSI/ASME

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 244 652	3.500	199 244 662	3.499
75	2 ½	65	10	199 244 653	3.600	199 244 663	3.656
90	3	80	10	199 244 654	4.692	199 244 664	4.692
110	4	100	10	199 244 655	6.400	199 244 665	6.406
140	5	125	10	199 244 656	9.200	199 244 666	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	91.75
75	111	119.5	15	91.75
90	111	119.5	15	91.75
110	131	141.5		130.50
140	131	141.5		130.50



Lug-style end installation butterfly valve Type 244 PVC-C

FC (Fail safe to close)

Flange standard ANSI/ASME

Model:

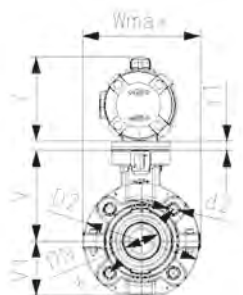
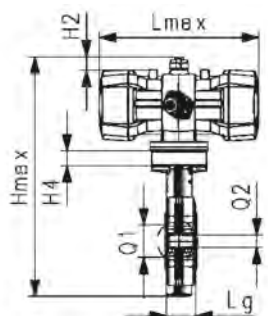
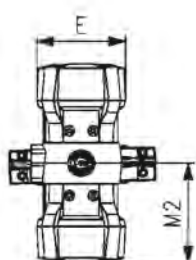
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 244 702	3.499	199 244 722	3.499
75	2 ½	65	10	199 244 703	3.656	199 244 723	3.656
90	3	80	10	199 244 704	4.692	199 244 724	4.692
110	4	100	10	199 244 705	6.406	199 244 725	6.406
140	5	125	10	199 244 706	9.222	199 244 726	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



Lug-style end installation butterfly valve type 244 PVC-C
FO (Fail safe to open)
Flange standard ANSI/ASME

Model:

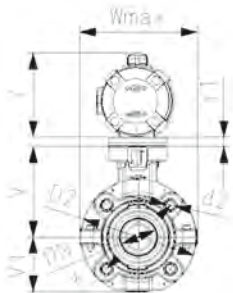
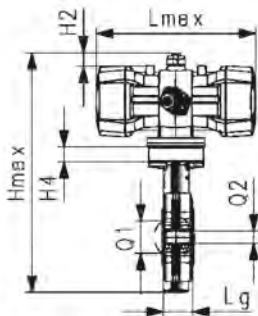
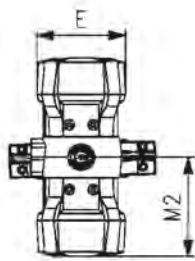
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

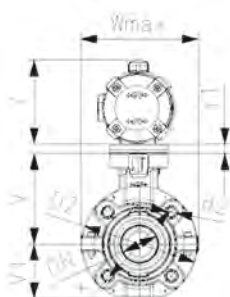
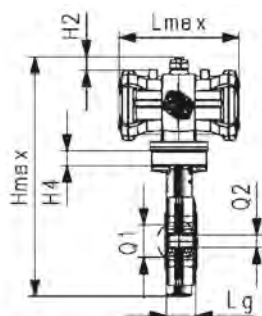
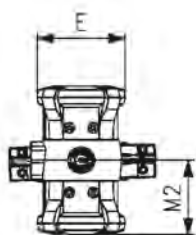
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 244 732	3.499	199 244 742	3.499
75	2 ½	65	10	199 244 733	3.656	199 244 743	3.656
90	3	80	10	199 244 734	4.692	199 244 744	4.692
110	4	100	10	199 244 735	6.406	199 244 745	6.406
140	5	125	10	199 244 736	9.222	199 244 746	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



Lug-style end installation butterfly valve type 244 PVC-C DA (Double acting) Flange standard ANSI/ASME

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 244 752	3.500	199 244 762	3.499
75	2 ½	65	10	199 244 753	3.600	199 244 763	3.656
90	3	80	10	199 244 754	4.700	199 244 764	4.692
110	4	100	10	199 244 755	6.406	199 244 765	6.406
140	5	125	10	199 244 756	9.200	199 244 766	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	91.75
75	111	119.5	15	91.75
90	111	119.5	15	91.75
110	131	141.5		130.50
140	131	141.5		130.50



PROGEF Standard Lug-style end installation butterfly valve type 244
FC (Fail safe to close)
Flange standard ANSI/ASME

Model:

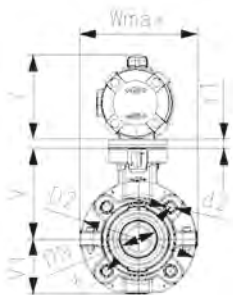
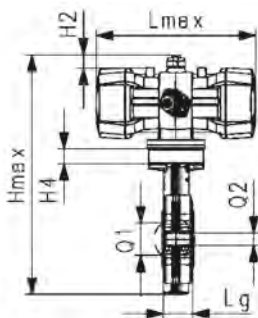
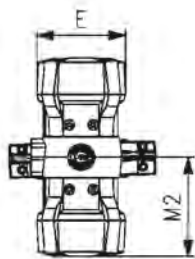
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 244 802	3.499	199 244 822	3.499
75	2 1/2	65	10	199 244 803	3.656	199 244 823	3.656
90	3	80	10	199 244 804	4.600	199 244 824	4.692
110	4	100	10	199 244 805	6.406	199 244 825	6.406
140	5	125	10	199 244 806	9.222	199 244 826	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



PROGEF Standard Lug-style end installation butterfly valve type 244

FO (Fail safe to open)

Flange standard ANSI/ASME

Model:

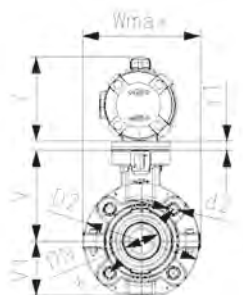
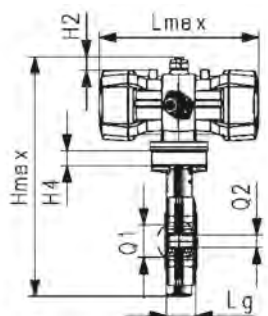
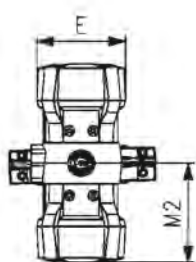
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

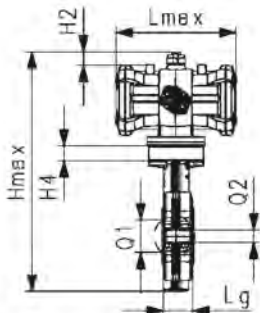
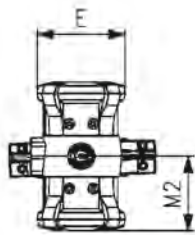
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 244 832	4.198	199 244 842	3.499
75	2 ½	65	10	199 244 833	4.561	199 244 843	3.656
90	3	80	10	199 244 834	5.470	199 244 844	4.692
110	4	100	10	199 244 835	7.750	199 244 845	6.406
140	5	125	10	199 244 836	9.731	199 244 846	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



PROGEF Standard Lug-style end installation butterfly valve type 244
DA (Double acting)
Flange standard ANSI/ASME

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
63	2	50	10	199 244 852	3.499	199 244 862	3.499
75	2 ½	65	10	199 244 853	3.600	199 244 863	3.656
90	3	80	10	199 244 854	4.600	199 244 864	4.600
110	4	100	10	199 244 855	6.406	199 244 865	6.406
140	5	125	10	199 244 856	9.222	199 244 866	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	91.75
75	111	119.5	15	91.75
90	111	119.5	15	91.75
110	131	141.5		130.50
140	131	141.5		130.50



Lug-style end installation butterfly valve type 244 ABS

FC (Fail safe to close)

Flange standard ANSI/ASME

Model:

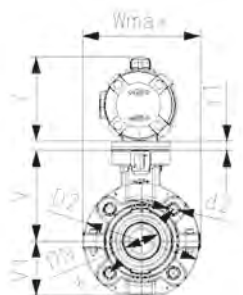
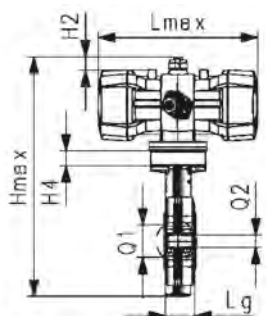
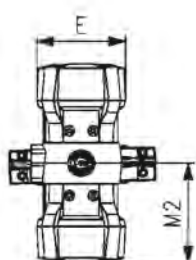
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 244 920	3.499
75	2 ½	65	10	199 244 921	3.656
90	3	80	10	199 244 922	4.692
110	4	100	10	199 244 923	6.406
140	5	125	10	199 244 924	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



Lug-style end installation butterfly valve type 244 ABS
FO (Fail safe to open)
Flange standard ANSI/ASME

Model:

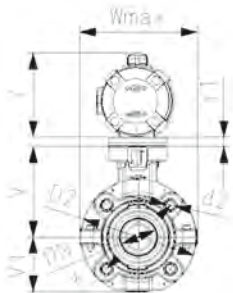
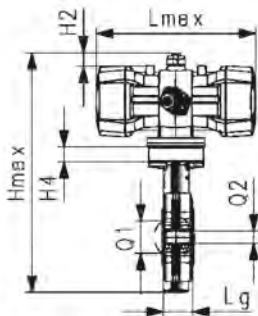
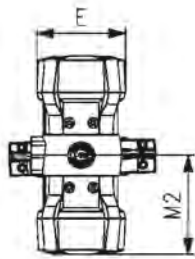
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

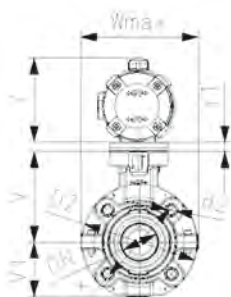
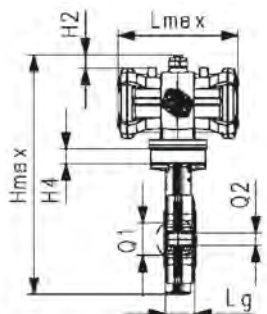
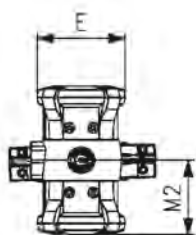
Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com





Lug-style end installation butterfly valve type 244 ABS

DA (Double acting)

Flange standard ANSI/ASME

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 244 900	3.499
75	2 ½	65	10	199 244 901	3.656
90	3	80	10	199 244 902	4.692
110	4	100	10	199 244 903	6.406
140	5	125	10	199 244 904	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	91.75
75	111	119.5	15	91.75
90	111	119.5	15	91.75
110	131	141.5		130.50
140	131	141.5		130.50



SYGEF Standard Lug-style end installation butterfly valve type 244
FC (Fail safe to close)
Flange standard ANSI/ASME

Model:

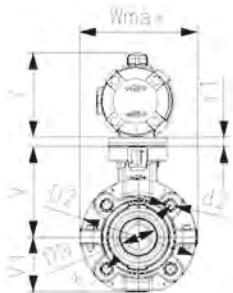
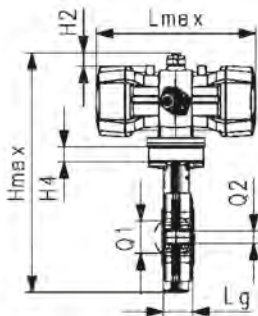
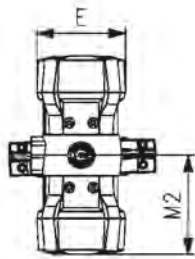
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 244 925	3.499
75	2 ½	65	10	199 244 926	3.656
90	3	80	10	199 244 927	4.692
110	4	100	10	199 244 928	6.406
140	5	125	10	199 244 929	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



SYGEF Standard Lug-style end installation butterfly valve type 244

FO (Fail safe to open)

Flange standard ANSI/ASME

Model:

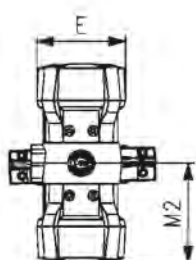
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

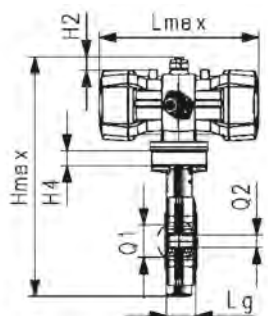
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

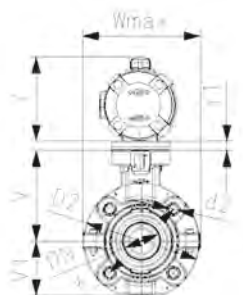


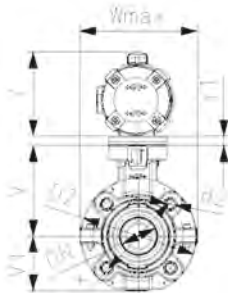
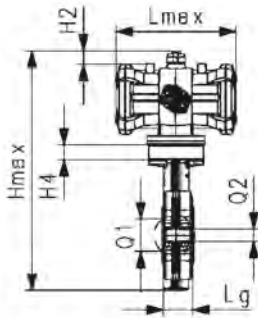
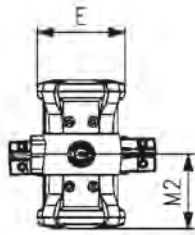
d	Size	DN	PN	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 244 935	3.499
75	2 ½	65	10	199 244 936	3.656
90	3	80	10	199 244 937	4.692
110	4	100	10	199 244 938	6.406
140	5	125	10	199 244 939	9.222



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50





SYGEF Standard Lug-style end installation butterfly valve type 244
DA (Double acting)
Flange standard ANSI/ASME

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d	Size	DN	PN	FKM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)
63	2	50	10	199 244 905	3.499
75	2 ½	65	10	199 244 906	3.656
90	3	80	10	199 244 907	4.692
110	4	100	10	199 244 908	6.406
140	5	125	10	199 244 909	9.222

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d	Y	E	Y1	M2
(mm)	(mm)	(mm)	(mm)	(mm)
63	111	119.5	15	91.75
75	111	119.5	15	91.75
90	111	119.5	15	91.75
110	131	141.5		130.50
140	131	141.5		130.50



PROGEF Standard Lug-style end installation butterfly valve type 147

With electric actuator 230V

Without manual override

Flange standard ANSI/ASME

Model:

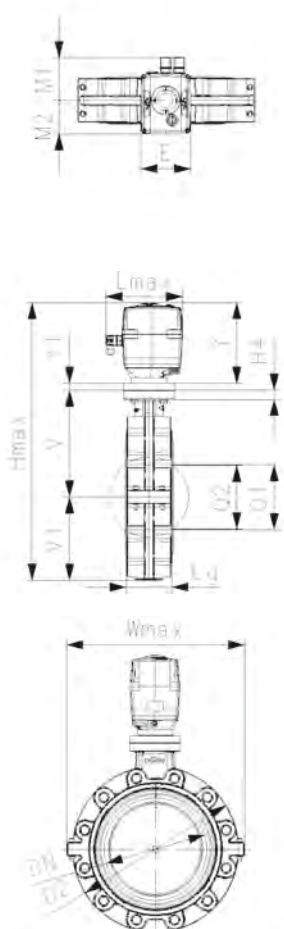
- Material: PP-H
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE Code
63	2	50	10	740	199 147 362	6.193	199 147 802
75	2 ½	65	10	1500	199 147 363	6.535	199 147 803
90	3	80	10	2400	199 147 364	6.911	199 147 804
110	4	100	10	3800	199 147 365	8.925	199 147 805
140	5	125	10	8600	199 147 366	10.755	199 147 806
160	6	150	10	11400	199 147 367	12.539	199 147 807
225	8	200	10	19900	199 147 368	21.747	199 147 808
280	10	250	6	34000	199 147 369	24.385	
315	12	300	4	50000	199 147 370	30.916	

d (mm)	Size (inch)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2
63	2	378.3	190	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8
75	2 ½	391.2	190	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8
90	3	426.1	190	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8
110	4	462.8	190	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8
140	5	492.0	190	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4
160	6	522.8	190	300	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4
225	8	571.3	190	360	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4
280	10	670.6	190	440	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8
315	12	720.0	190	510	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8

d (mm)	Size (inch)	k (mm)	Y (mm)	Y1 (mm)	E (mm)	M1 (mm)	M2 (mm)
63	2	120.7	166.2		122.3	107.3	82.7
75	2 ½	139.7	166.2		122.3	107.3	82.7
90	3	152.4	189.3		122.3	107.3	82.7
110	4	190.5	189.3		122.3	107.3	82.7
140	5	215.9	189.3		122.3	107.3	82.7
160	6	241.3	199.3		122.3	107.3	82.7
225	8	298.5	199.3		122.3	107.3	82.7
280	10	362.0	199.3	17	122.3	107.3	82.7
315	12	431.8	199.3	17	122.3	107.3	82.7

Diaphragm valves type 317



PROGEF Standard Diaphragm valve type 317 With flanges Inch ANSI

Model:

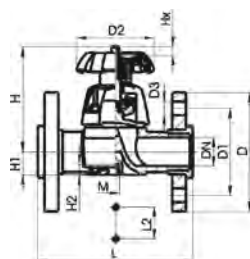
- Material: PP-H
- Joining faces serrated
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- DN65 with PP-V backing flange
- DN80-150 with fixed flange

Option:

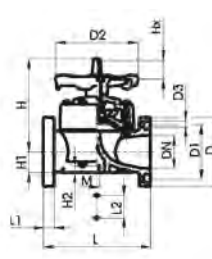
- Handwheel lockable DN65 (basic version not lockable)
- * DN80 and DN150 fixed flanges metric and inch ANSI B16.5

	d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE with EPDM supporting diaphragm Code	Weight (kg)
		65	2 1/2	10	992	167 317 523	4.605	167 317 538	4.000
*	90	80	3	10	1700	167 317 024	8.689	167 317 039	8.088
	110	100	4	10	2700	167 317 325	11.238	167 317 340	11.300
*	160	150	6	6	6033	167 317 027	24.707	167 317 042	25.000

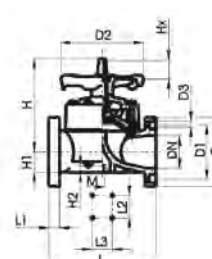
	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M (mm)	Lift = Hx (mm)	AL
	185	140	152	19	210	46	15	290		70		8	35	4
*	200	160	270	18	265	57	23	310	35	120		12	40	8
	225	180	270	18	304	69	23	350	38	120		12	50	8
*	282	241	400	23	437	108	23	480	29	100	200	12	70	8



DN 15-65



DN 80-100



DN 150

Diaphragm valves type 517



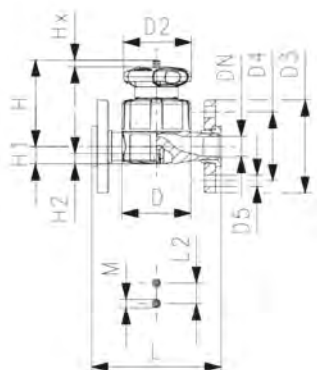
PROGEF Standard Diaphragm valve type 517 With backing flanges PP-V Inch ANSI

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	½	10	125	167 517 712	0.480	167 517 732	0.490
25	20	¾	10	271	167 517 713	0.629	167 517 733	0.640
32	25	1	10	481	167 517 714	1.296	167 517 734	1.316
40	32	1 ¼	10	759	167 517 715	1.640	167 517 735	1.660
50	40	1 ½	10	1263	167 517 716	1.872	167 517 736	2.631
63	50	2	10	1728	167 517 717	2.609	167 517 737	3.572

D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
65	65	95	60	16	73	14	12	130	25	M6	7
80	65	105	70	16	81	18	12	150	25	M6	10
88	87	115	79	16	107	22	12	160	25	M6	13
101	87	140	89	16	115	26	15	180	45	M8	15
117	135	150	98	16	148	32	15	200	45	M8	19
144	135	165	121	19	166	39	15	230	45	M8	25

Diaphragm valves pneumatic DIASTAR Six



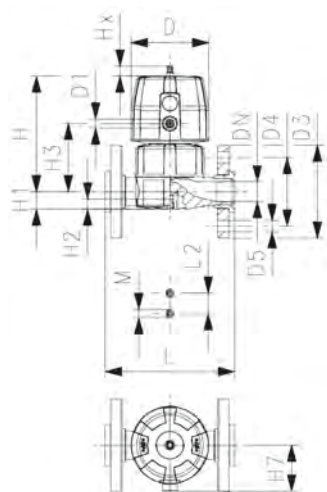
PROGEF Standard
Diaphragm valve DIASTAR Six
FC (Fail safe to close)
With backing flanges PP-V Inch ANSI

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)
3/4	20	6	271	167 617 713	1.148
1	25	6	481	167 617 714	1.410
1 1/4	32	6	759	167 617 715	2.279
1 1/2	40	6	960	167 617 716	2.751
2	50	6	1181	167 617 717	3.921

Size (inch)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
3/4	96	3/8	105	70	16	132	18	12	73	57	150	25	M6	10
1	96	3/8	115	79	16	143	22	12	84	69	160	25	M6	13
1 1/4	120	3/8	140	89	16	173	26	15	99	69	180	45	M8	14
1 1/2	120	3/8	150	98	16	193	32	15	119	69	200	45	M8	16
2	120	3/8	165	121	19	205	39	15	132	69	230	45	M8	16

Diaphragm valves pneumatic DIASTAR Ten



PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With backing flanges PP-V Inch ANSI

Model:

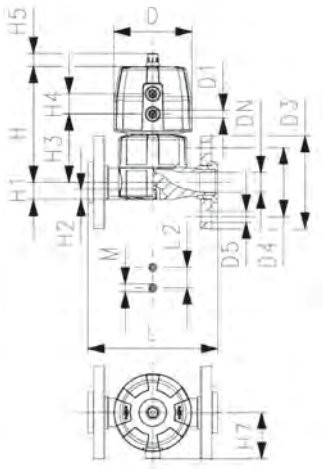
- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**



d	DN	Size	PN	PN*	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(mm)	(mm)	(inch)	(bar)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
					(l/min)				
20	15	½	10	10*	125	167 657 712	0.608	167 657 732	0.618
25	20	¾	10	10*	271	167 657 713	1.013	800 063 749	1.760
32	25	1	10	10*	481	167 657 714	1.272	800 063 748	2.610
40	32	1 ¼	10	10*	759	167 657 715	2.009	800 063 750	3.760
50	40	1 ½	10	10*	1263	167 657 716	3.049	167 657 736	3.079
63	50	2	10	10*	1728	167 657 717	4.002	167 657 737	4.030

D	D1_G	D3	D4	D5	H	H1	H2	H3	H4	H5	H7	L	L2	M
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
68	⅝	95	60	16	101	14	12	60	24	16	57	130	25	M6
96	⅝	105	70	16	132	18	12	73	25	16	57	150	25	M6
96	⅝	115	79	16	143	22	12	84	25	16	69	160	25	M6
120	⅝	140	89	16	173	26	15	99	26	26	88	180	45	M8
150	⅝	150	98	16	214	32	15	119	36	26	103	200	45	M8
150	⅝	165	121	19	226	39	15	132	36	26	103	230	45	M8

Lift =
Hx
(mm)

7
10
13
15
19
23



**PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With backing flanges PP-V Inch ANSI**

Model:

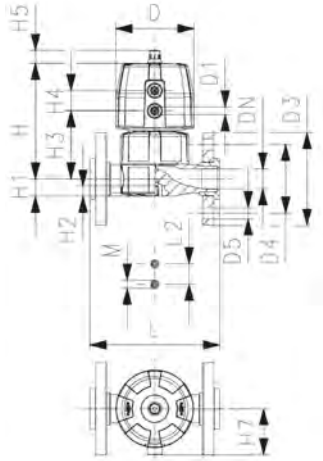
- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	½	10	10*	125	167 647 712	0.624	167 647 732	0.634
25	20	¾	10	10*	271	167 647 713	1.049	167 647 733	1.060
32	25	1	10	10*	481	167 647 714	1.302	167 647 734	1.322
40	32	1 ¼	10	10*	759	167 647 715	2.069	167 647 735	2.089
50	40	1 ½	10	10*	1263	167 647 716	3.506	167 647 736	3.829
63	50	2	10	10*	1728	167 647 717	4.752	167 647 737	4.780

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅝	95	60	16	101	14	12	60	24	16	57	130	25	M6
96	⅝	105	70	16	132	18	12	73	25	16	57	150	25	M6
96	⅝	115	79	16	143	22	12	84	25	16	69	160	25	M6
120	⅝	140	89	16	173	26	15	99	26	26	88	180	45	M8
150	⅝	150	98	16	214	32	15	119	36	26	103	200	45	M8
150	⅝	165	121	19	226	39	15	132	36	26	103	230	45	M8

Lift =

Hx (mm)
7
10
13
15
19
23



**PROGEF Standard Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
With backing flanges PP-V Inch ANSI**

Model:

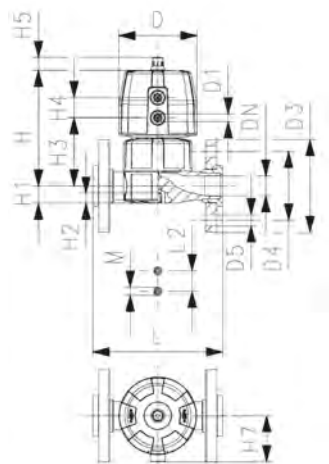
- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	½	10	10*	125	167 627 712	0.674	167 627 732	0.684
25	20	¾	10	10*	271	167 627 713	1.223	167 627 733	1.234
32	25	1	10	10*	481	167 627 714	1.482	167 627 734	1.502
40	32	1 ¼	10	10*	759	167 627 715	2.429	167 627 735	2.449
50	40	1 ½	10	10*	1263	167 627 716	3.889	167 627 736	3.919
63	50	2	10	6*	1728	167 627 717	4.842	167 627 737	4.870

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅝	95	60	16	101	14	12	60	24	16	43	130	25	M6
96	⅝	105	70	16	132	18	12	73	25	16	57	150	25	M6
96	⅝	115	79	16	143	22	12	84	25	16	69	160	25	M6
120	⅝	140	89	16	173	26	15	99	26	26	69	180	45	M8
150	⅝	150	98	16	193	32	15	119	36	26	88	200	45	M8
150	⅝	165	121	19	205	39	15	132	36	26	88	230	45	M8

Lift =

Hx

(mm)

7

10

13

15

19

23

Diaphragm valves pneumatic DIASTAR TenPlus



PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
With backing flanges PP-V Inch ANSI

Model:

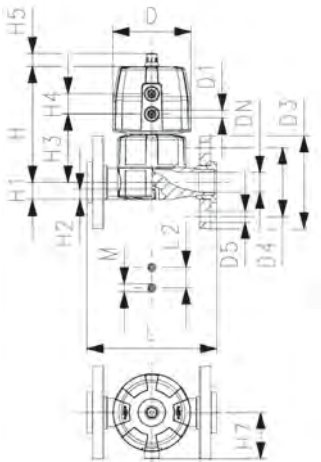
- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **both sides**



d	DN	Size	PN	PN*	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(mm)	(mm)	(inch)	(bar)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
					(l/min)				
20	15	½	10	10*	125	167 687 712	1.074	167 687 732	1.084
25	20	¾	10	10*	271	167 687 713	1.223	167 687 733	1.234
32	25	1	10	10*	481	167 687 714	2.076	167 687 734	2.096
40	32	1 ¼	10	10*	759	167 687 715	3.499	167 687 735	3.519
50	40	1 ½	10	10*	1263	167 687 716	5.297	167 687 736	5.327
63	50	2	10	10*	1728	167 687 717	6.249	167 687 737	6.277

D	D1_G	D3	D4	D5	H	H1	H2	H3	H4	H5	H7	L	L2	M
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
96	¾	95	60	16	127	14	12	68	25	16	57	130	25	M6
96	¾	105	70	16	132	18	12	73	25	16	57	150	25	M6
120	½	115	79	16	167	22	12	93	26	26	69	160	25	M6
150	¾	140	89	16	196	26	15	101	36	26	88	180	45	M8
180	¾	150	98	16	239	32	15	124	37	26	103	200	45	M8
180	¾	165	121	19	251	39	15	137	37	26	103	230	45	M8

Lift =
Hx
(mm)
7
10
13
15
19
23

Diaphragm valves DIASTAR big dimensions



PROGEF Standard Diaphragm valve type DIASTAR
Series 025 FC (Fail safe to close)
With fixed flanges Inch ANSI

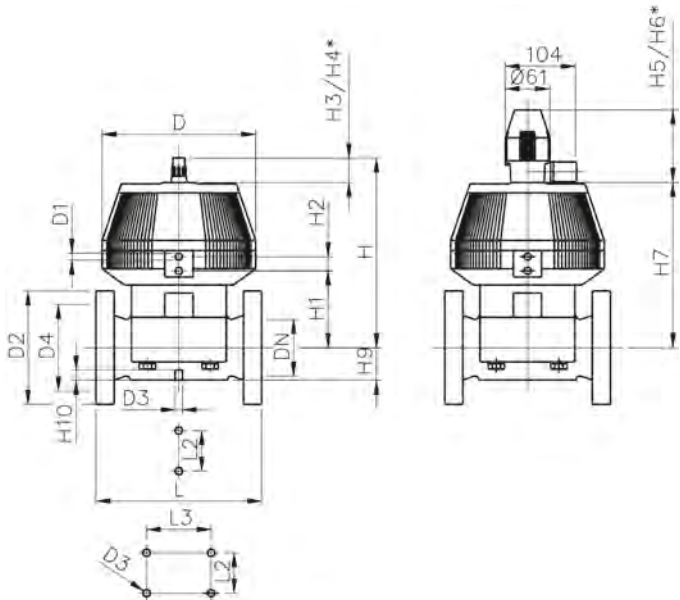
Model:

- Material: PP-H
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

	d	Size	DN	PN	kv-value	EPDM	Weight	PTFE/EPDM	Weight
	(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
					(l/min)				
*		2 ½	65	10	992	199 025 207	13.700	199 025 237	13.700
**	90	3	80	10	1700	199 025 268	17.400	199 025 298	16.162
	110	4	100	6	2700	199 025 209	22.800	199 025 239	22.800
**	160	6	150	6	6033	199 025 270	35.000		

	D	D1_G	D2	D3[M]	D4	H	H1	H2	H3	H4	H5	H6	H7	H9	H10
	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
*	280	¼	185	8	145	344	148	24	46	100	129	195	298	46	15
**	280	¼	200	12	160	348	150	24	46	100	129	195	302	57	15
	335	¼	225	12	180	395	176	24	46	100	129	195	349	69	20
**	335	¼	285	12	240	455	237	24	46	100	129	195	409	108	20

	L	L2	L3
	(mm)	(mm)	(mm)
*	290	70	
**	310	120	
	350	120	
**	480	100	200





PROGEF Standard Diaphragm valve type DIASTAR
Series 025 FO (Fail safe to open)
With fixed flanges Inch ANSI

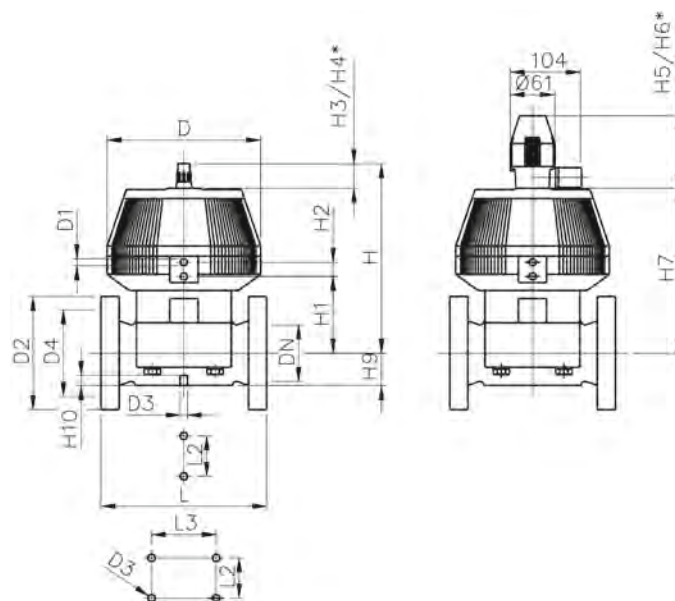
Model:

- Material: PP-H
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

	d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
*		2 ½	65	10	992	199 025 217	11.300	199 025 247	11.300
**	90	3	80	10	1700	199 025 278	17.400	199 025 308	17.400
	110	4	100	6	2700	199 025 219	22.500	199 025 249	22.500
**	160	6	150	6	6033	199 025 280	35.000	199 025 310	35.000

	D	D1_G	D2	D3[M]	D4	H	H1	H2	H3	H4	H5	H6	H7	H9	H10
	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
*	280	¼	185	8	145	344	148	24	46	100	129	195	298	46	15
**	280	¼	200	12	160	348	150	24	46	100	129	195	302	57	15
	335	¼	225	12	180	395	176	24	46	100	129	195	349	69	20
**	335	¼	285	12	240	455	237	24	46	100	129	195	409	108	20

	L	L2	L3
	(mm)	(mm)	(mm)
*	290	70	
**	310	120	
	350	120	
**	480	100	200



Cone check valves

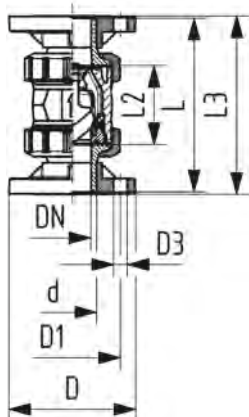
Type 561



PROGEF Standard
Check valve type 561
With fixed flanges ANSI

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759



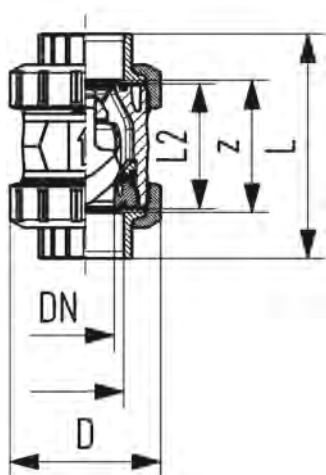
d	DN	PN	kv-value	EPDM	D	D1	D3	L	L2	L3	closest
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
			(l/min)								(inch)
20	15	10	180	800 052 461	95	65	14	120	56	130	½
25	20	10	380	800 052 462	105	75	14	140	65	150	¾
32	25	10	460	800 050 062	115	85	14	150	71	160	1
50	40	10	1080	800 052 060	150	110	18	190	89	200	1 ½
63	50	10	1670	800 048 807	165	125	18	220	101	230	2
	80		1670	800 050 404							3
	100			800 055 955							
	65			800 056 229							



PROGEF Standard Check valve type 561
Without spring
With threaded sockets reinforced NPT

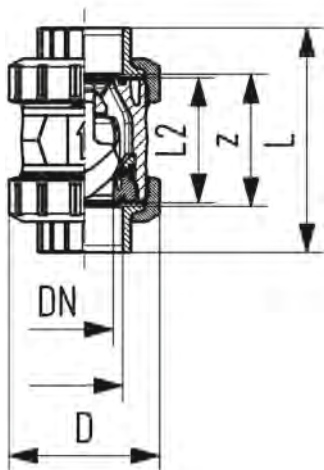
Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d	DN	Thread Type	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)		(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
					(l/min)				
16	10	NPT	¾	10	190	167 561 101	0.080	167 561 111	0.080
20	15	NPT	½	10	180	167 561 102	0.090	167 561 112	0.090
25	20	NPT	¾	10	380	167 561 103	0.170	167 561 113	0.180
32	25	NPT	1	10	460	167 561 104	0.200	167 561 114	0.210
40	32	NPT	1 ¼	10	850	167 561 105	0.350	167 561 115	0.360
50	40	NPT	1 ½	10	1080	167 561 106	0.500	167 561 116	0.510
63	50	NPT	2	10	1670	167 561 107	0.920	167 561 117	0.920

D	L	L2	z
(mm)	(mm)	(mm)	(mm)
50	96	56	71
50	99	56	64
58	111	65	76



D	L	L2	z
(mm)	(mm)	(mm)	(mm)
68	127	71	83
84	146	85	100
97	157	89	111
124	183	101	134

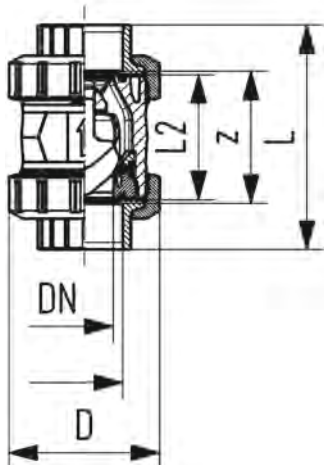
Type 562



PROGEF Standard Check valve type 562 With threaded sockets reinforced NPT

Model:

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



NPT	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(L/min)				
3/8	10	10	190	167 562 101	0.080	167 562 111	0.080
1/2	15	10	180	167 562 102	0.090	167 562 112	0.090
3/4	20	10	380	167 562 103	0.170	167 562 113	0.180
1	25	10	460	167 562 104	0.200	167 562 114	0.210
1 1/4	32	10	850	167 562 105	0.350	167 562 115	0.360
1 1/2	40	10	1080	167 562 106	0.500	167 562 116	0.510
2	50	10	1670	167 562 107	0.920	167 562 117	0.920

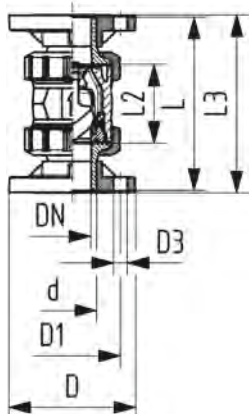
NPT	D	L	L2	z
(inch)	(mm)	(mm)	(mm)	(mm)
3/8	50	96	56	71
1/2	50	99	56	64
3/4	58	111	65	76
1	68	127	71	83
1 1/4	84	146	85	100
1 1/2	97	157	89	111
2	124	183	101	134



PROGEF Standard
Check valve type 562
With fixed flanges ANSI

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759



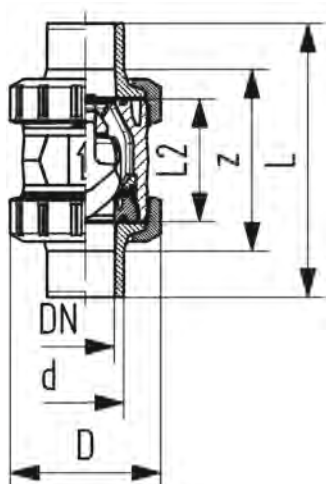
d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
20	15	10	180		95	65	14	120	56	130	½
25	20	10	380		105	75	14	140	65	150	¾
32	25	10	460	800 052 016	115	85	14	150	71	160	1
40	32	10	850		140	100	18	170	85	180	1 ¼
50	40	10	1080		150	110	18	190	89	200	1 ½
63	50	10	1670	800 052 015	165	125	18	220	101	230	2
110	100	10	4150	800 052 130	238			336	164		4



PROGEF Standard
Check valve type 562
With fixed flanges ANSI

Model:

- Material: PP-H
- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

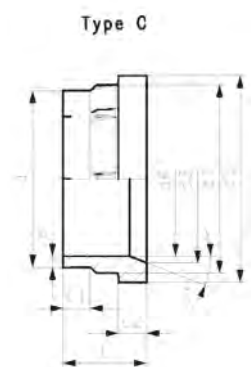
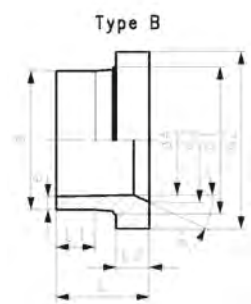
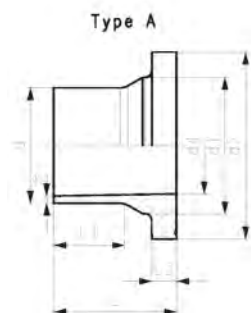


d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	10	10	190			50	110	56	¾
20	15	10	180			50	120	56	½
25	20	10	380			58	139	65	¾
32	25	10	460			68	150	71	1
40	32	10	850			84	170	85	1 ¼
50	40	10	1080			97	190	89	1 ½
63	50	10	1670			124	220	101	2
75	65	10	2950			166	280	136	2 ½
90	80	10	3600			200	296	141	3
110	100	10	4150	800 052 130	9.300	238	336	164	4

PROGEF Standard JIS



	Butt fusion flange adaptors	374
	Socket fusion flange adaptors	375
	Ball valves type 546	376
	Ball valves pneumatic type 255	377
	Diaphragm valves type 517	383
	Diaphragm valves pneumatic DIASTAR Six	384
	Diaphragm valves pneumatic DIASTAR Ten	385
	Diaphragm valves pneumatic DIASTAR TenPlus	388



PROGEF Standard Flange adaptor **SDR17.6/PN6 JIS 10K Jointing face: flat**

Model:

- Material: PP-H
- IR- Infrared welding compatible
- Suitable for butterfly valves type 567/578 and 037/038/039
- Conventional butt-welding according to DVS 2207

d	DN	SDR	PN	FM	Type	Code	Weight
(mm)	(mm)		(bar)				(kg)
50	40	17.6	6	IR	A	727 905 210	0.052
63	50	17.6	6	IR	A	727 905 211	0.087
75	65	17.6	6	IR	A	727 905 787	0.203
90	80	17.6	6	IR	A	727 905 788	0.273
110	100	17.6	6	IR	A	727 905 789	0.363
140	125	17.6	6	IR	B	727 905 216	0.499
160	150	17.6	6	IR	B	727 905 417	0.730
225	200	17.6	6	IR	C	727 905 420	1.420
280	250	17.6	6	IR	C	727 798 222	1.785
315	300	17.6	6	IR	C	727 798 223	2.499

d	DN	d1	d2	d3	d4	L	L1	L2	e	a°
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
50	40	60	73		44	59	32	9	3.2	
63	50	63	90		55	66	38	10	4.0	
75	65	89	106		65	75	43	11	4.5	
90	80	105	125		78	75	41	12	5.4	
110	100	125	150		96	75	40	13	6.6	
140	125	155	188	127	120	79	34	17	8.3	27
160	150	175	212	158	142	100	40	19	9.1	30
225	200	235	268	210	196	125	44	24	13.9	30
280	250	291	320	265	247	120	45	35	17.2	30
315	300	335	370	300	278	150	50	50	19.3	21

Socket fusion flange adaptors



PROGEF Standard Flange adaptor PN10 jointing face flat

Model:

- Counterpart: flange adaptor flat or with O-ring groove
- Connection: according to JIS 10K, BS10
- Gasket: O-ring EPDM

d	Size	DN	PN	Code	Weight	L	L1	D	D1	z
(mm)	(inch)	(mm)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
20	½	15	10	727 800 206	0.007	19	6	27	34	5
25	¾	20	10	727 800 207	0.010	21	7	33	41	5
32	1	25	10	727 800 208	0.015	23	7	41	50	5
40	1 ¼	32	10	727 800 209	0.028	25	8	50	61	5
50	1 ½	40	10	727 800 210	0.034	28	8	61	73	5
63	2	50	10	727 800 211	0.058	32	9	76	90	5
75	2 ¼	65	10	727 800 212	0.090	35	10	91	106	5
90	3	80	10	727 800 213	0.145	42	11	109	125	7
110	4	100	10	727 800 214	0.227	49	12	131	150	7

Ball valves type 546



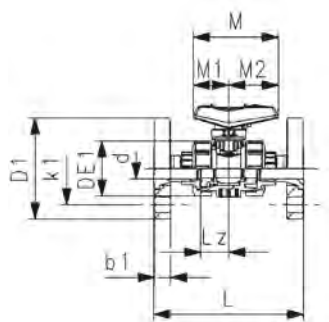
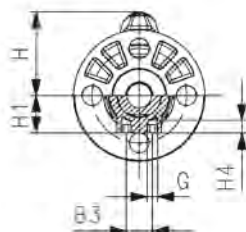
PROGEF Standard Ball Valve type 546 Pro With backing flanges PP-GF JIS with PP-H

Model:

- Lockable lever as standard (DN10-DN50)
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

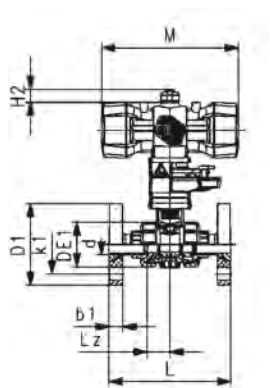
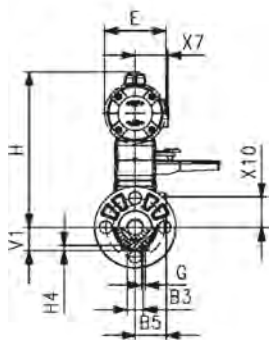
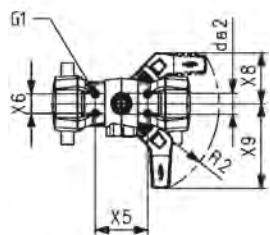
- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	167 546 942	0.314	167 546 952	0.314
25	20	¾	10	350	167 546 943	0.432	167 546 953	0.432
32	25	1	10	700	167 546 944	0.676	167 546 954	0.676
40	32	1 ¼	10	1000	167 546 945	0.970	167 546 955	0.970
50	40	1 ½	10	1600	167 546 946	1.216	167 546 956	1.216
63	50	2	10	3100	167 546 947	1.966	167 546 957	1.966
75	65	2 ½	10	5000	167 546 948	4.300	167 546 958	4.300
90	80	3	10	7000	167 546 949	5.953	167 546 959	6.400
110	100	4	10	11000	167 546 950	8.148	167 546 960	10.000

d (mm)	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)
20	12	25	95	50	M6	197	27	12	70	130	28	82	35	47
25	12	25	105	58	M6	201	30	12	75	150	33	106	44	62
32	14	25	115	68	M8	207	36	12	90	160	36	106	44	62
40	16	45	140	84	M8	213	44	15	100	180	43	131	57	74
50	16	45	150	97	M8	219	51	15	105	200	45	131	57	74
63	18	45	165	124	M8	234	64	15	120	230	51	152	66	86
75	18	70	166	166	M8	234	85	15	140	290	68	270	64	206
90	20	70	200	200	M8	234	105	15	150	310	71	270	64	206
110	20	120	238	238	M12	234	123	22	175	350	82	320	64	206

Ball valves pneumatic type 255



PROGEF Standard PP-H Ball valve type 546 Pro with PPA FC (Fail Safe to Close) With backing flanges PP-GF JIS with PP-H With manual override

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

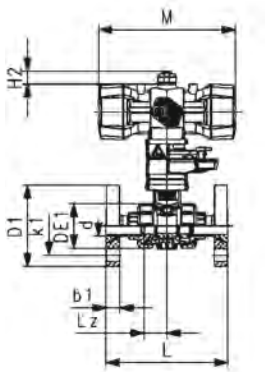
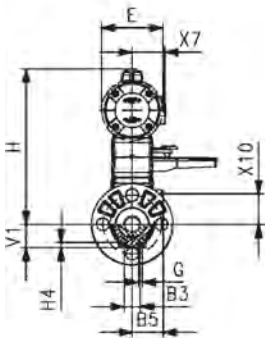
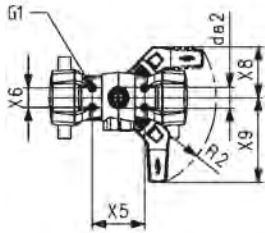
Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	185	199 255 363	1.700	199 255 373	1.700
25	20	¾	10	350	199 255 364	1.900	199 255 374	1.900
32	25	1	10	700	199 255 365	2.100	199 255 375	2.100
40	32	1 ¼	10	1000	199 255 366	3.400	199 255 376	3.400
50	40	1 ½	10	1600	199 255 367	3.900	199 255 377	3.900
63	50	2	10	3100	199 255 368	4.900	199 255 378	4.900

d	Actuator	b1	B3	B5	D1	da2	DE1	E	G	G1	H	H2	H4	k1	L
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	PPA15	12	25	16.2	95	33	50	74	M6	M5	215	20	12	70	130
25	PPA15	12	25	17.5	105	33	58	74	M6	M5	219	20	12	75	150
32	PPA15	14	25	17.5	115	33	68	94	M8	M5	238	20	12	90	160
40	PPA40	16	45	23.3	140	33	84	94	M8	M5	244	20	15	100	180
50	PPA40	16	45	23.3	150	33	97	120	M8	M5	273	20	15	105	200
63	PPA40	18	45	24.3	165	33	124	120	M8	M5	288	20	15	120	230

d	Lz	M	R2	V1	X5	X6	X7	X8	X9	X10
(mm)	(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	28	159	R150	27	80	30	43	78	132	38.00
25	33	159	R150	30	80	30	43	78	132	41.90
32	36	211	R150	36	80	30	51	78	132	47.00
40	43	211	R150	44	80	30	51	78	132	53.50
50	45	246	R150	51	80	30	62	78	132	62.75
63	51	246	R150	64	80	30	62	78	132	77.00



PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail Safe to Open)
With backing flanges PP-GF JIS with PP-H
With manual override

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

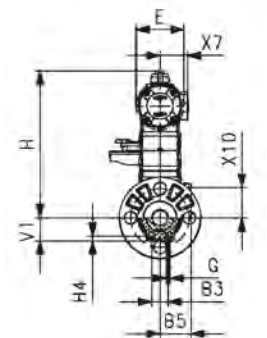
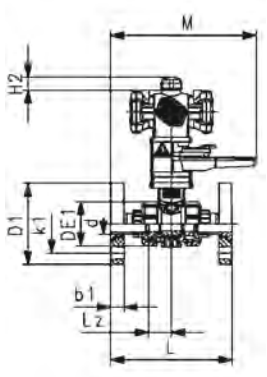
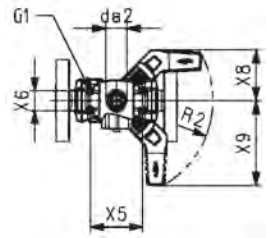
Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	185	199 255 383	1.700	199 255 393	1.700
25	20	¾	10	350	199 255 384	1.900	199 255 394	1.900
32	25	1	10	700	199 255 385	2.100	199 255 395	2.100
40	32	1 ¼	10	1000	199 255 386	3.400	199 255 396	3.400
50	40	1 ½	10	1600	199 255 387	3.900	199 255 397	3.900
63	50	2	10	3100	199 255 388	4.900	199 255 398	4.900

d	Actuator	b1	B3	B5	D1	da2	DE1	E	G	G1	H	H2	H4	k1	L
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	PPA15	12	25	16.2	95	33	50	74	M6	M5	215	20	12	70	130
25	PPA15	12	25	17.5	105	33	58	74	M6	M5	219	20	12	75	150
32	PPA15	14	25	17.5	115	33	68	94	M8	M5	238	20	12	90	160
40	PPA40	16	45	23.3	140	33	84	94	M8	M5	244	20	15	100	180
50	PPA40	16	45	23.3	150	33	97	120	M8	M5	273	20	15	105	200
63	PPA40	18	45	24.3	165	33	124	120	M8	M5	288	20	15	120	230

d	Lz	M	R2	V1	X5	X6	X7	X8	X9	X10
(mm)	(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	28	159	R150	27	80	30	43	78	132	38.00
25	33	159	R150	30	80	30	43	78	132	41.90
32	36	211	R150	36	80	30	51	78	132	47.00
40	43	211	R150	44	80	30	51	78	132	53.50
50	45	246	R150	51	80	30	62	78	132	62.75
63	51	246	R150	64	80	30	62	78	132	77.00



**PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)
With backing flanges PP-GF JIS with PP-H
With manual override**

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

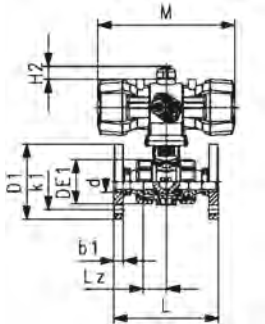
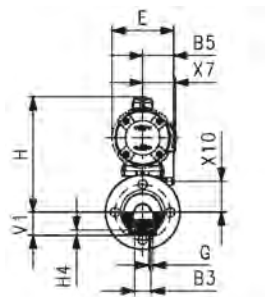
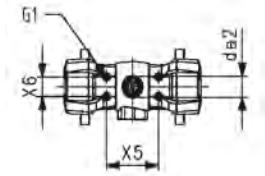
Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	185	199 255 403	1.700	199 255 413	1.700
25	20	¾	10	350	199 255 404	1.900	199 255 414	1.900
32	25	1	10	700	199 255 405	2.100	199 255 415	2.100
40	32	1 ¼	10	1000	199 255 406	3.400	199 255 416	3.400
50	40	1 ½	10	1600	199 255 407	3.900	199 255 417	3.900
63	50	2	10	3100	199 255 408	4.900	199 255 418	4.900

d	Actuator	b1	B3	B5	D1	da2	DE1	E	G	G1	H	H2	H4	k1	L
(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	PPA08	12	25	16.2	95	33	50	74	M6	M5	215	20	12	70	130
25	PPA08	12	25	17.5	105	33	58	74	M6	M5	219	20	12	75	150
32	PPA08	14	25	17.5	115	33	68	74	M8	M5	238	20	12	90	160
40	PPA15	16	45	23.3	140	33	84	94	M8	M5	244	20	15	100	180
50	PPA15	16	45	23.3	150	33	97	120	M8	M5	273	20	15	105	200
63	PPA40	18	45	24.3	165	33	124	120	M8	M5	288	20	15	120	230

d	Lz	M	R2	V1	X5	X6	X7	X8	X9	X10
(mm)	(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	28	128	R150	27	80	30	43	78	132	38.00
25	33	128	R150	30	80	30	43	78	132	41.90
32	36	128	R150	36	80	30	51	78	132	47.00
40	43	159	R150	44	80	30	51	78	132	53.50
50	45	159	R150	51	80	30	62	78	132	62.75
63	51	184	R150	64	80	30	62	78	132	77.00



PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With backing flanges PP-GF JIS with PP-H
Without manual override
4.2 bar control pressure

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

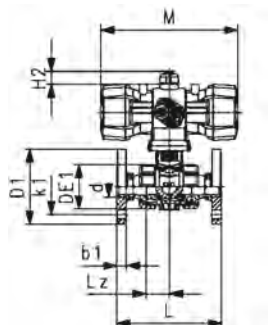
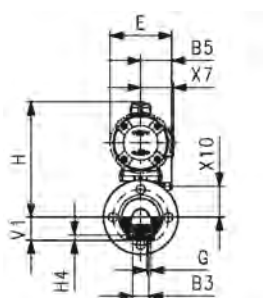
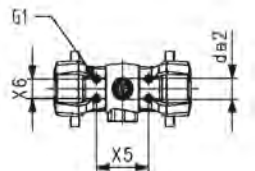
Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

PN (bar)	DN (mm)	Size (inch)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
10	15	½	185	199 255 423	1.700	199 255 433	1.700
10	20	¾	350	199 255 424	1.900	199 255 434	1.900
10	25	1	700	199 255 425	2.100	199 255 435	2.100
10	32	1 ¼	1000	199 255 426	3.400	199 255 436	3.400
10	40	1 ½	1600	199 255 427	3.900	199 255 437	3.900
10	50	2	3100	199 255 428	4.900	199 255 438	4.900
10	65	2 ½	5000	199 255 429	8.600	199 255 439	8.600
10	80	3	7000	199 255 430	11.200	199 255 440	11.200
10	100	4	11000	199 255 431	16.600	199 255 441	16.600

Actuator	b1 (mm)	B3 (mm)	B5 (mm)	da2 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H4 (mm)	H2 (mm)	k1 (mm)	L (mm)
PPA15	12	25	16.2	33	94	50	94	M6	M5	168	12	20	70	130
PPA15	12	25	17.5	33	105	58	94	M6	M5	172	12	20	75	150
PPA15	14	25	17.5	33	115	68	94	M8	M5	178	12	20	90	160
PPA40	16	45	23.3	33	140	84	120	M8	M5	207	15	20	100	180
PPA40	16	45	23.3	33	150	97	120	M8	M5	213	15	20	105	200
PPA40	18	45	24.3	33	165	124	120	M8	M5	228	15	20	120	230
PPA80	18	70	28.5	33	166	166	142	M8	M5	277	15	20	140	290
PPA80	20	70	28.5	33	200	200	142	M8	M5	289	15	20	150	310
PPA80	20	120	28.5	33	238	238	142	M12	M5	324	22	20	175	350

Lz (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)
28	211	27	80	30	51
33	211	30	80	30	51
36	211	36	80	30	51
43	246	44	80	30	62
45	246	51	80	30	62
51	246	64	80	30	62
68	343	85	80	30	74
71	343	105	80	30	74
82	343	123	80	30	74



PROGEF Standard PP-H Ball valve type 546 Pro with PPA

FO (Fail safe to open)

With backing flanges PP-GF JIS with PP-H

Without manual override

4.2 bar control pressure

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

d (mm)	PN (bar)	DN (mm)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	10	15	185	199 255 443	1.700	199 255 453	1.700
25	10	20	350	199 255 444	1.900	199 255 454	1.900
32	10	25	700	199 255 445	2.100	199 255 455	2.100
50	10	40	1600	199 255 447	3.900	199 255 457	3.900
63	10	50	3100	199 255 448	4.900	199 255 458	4.900
40	10	32	1000	199 255 446	3.400	199 255 456	3.400
90	10	80	7000	199 255 450	11.200	199 255 460	11.200
75	10	65	5000	199 255 449	8.600	199 255 459	8.600
110	10	100	11000	199 255 451	16.600	199 255 461	16.600

Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
PPA15	12	25	16.2	95	33	50	94	M6	M5	168	20	12	70	130
PPA15	12	25	17.5	105	33	58	94	M6	M5	172	20	12	75	150
PPA15	14	25	17.5	115	33	68	94	M8	M5	178	20	12	90	160
PPA40	16	45	23.3	140	33	84	120	M8	M5	207	20	15	100	180
PPA40	18	45	24.3	165	33	124	120	M8	M5	213	20	15	105	200
PPA40	16	45	23.3	150	33	97	120	M8	M5	228	20	15	120	230
PPA80	20	70	28.5	166	33	166	142	M8	M5	277	20	15	140	290
PPA80	18	70	28.5	200	33	200	142	M8	M5	289	20	15	150	310
PPA80	20	120	28.5	238	33	238	142	M12	M5	324	20	22	175	350

Lz (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
28	211	27	80	30	51	38.0
33	211	30	80	30	51	41.9
36	211	36	80	30	51	47.0
43	246	44	80	30	62	53.5
45	246	51	80	30	62	62.8
51	246	64	80	30	62	77.0
68	343	85	80	30	74	119.0
71	343	105	80	30	74	131.0
82	343	123	80	30	74	145.0



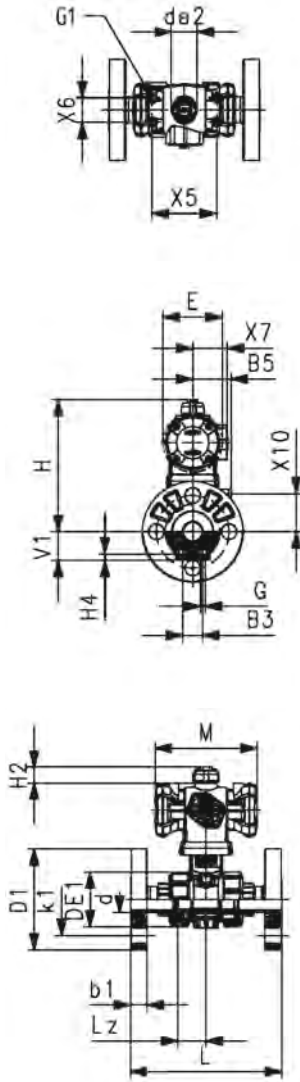
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)
With backing flanges PP-H JIS
Without manual override
4.2 bar control pressure

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	199 255 463	1.700	199 255 473	1.700
25	20	¾	10	350	199 255 464	1.900	199 255 474	1.900
32	25	1	10	700	199 255 465	2.100	199 255 475	2.100
40	32	1 ¼	10	1000	199 255 466	3.400	199 255 476	3.400
50	40	1 ½	10	1600	199 255 467	3.900	199 255 477	3.900
63	50	2	10	3100	199 255 468	4.900	199 255 478	4.900
75	65	2 ½	10	5000	199 255 469	7.500	199 255 479	7.500
90	80	3	10	7000	199 255 470	10.500	199 255 480	10.500
110	100	4	10	11000	199 255 471	14.800	199 255 481	14.800

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	D1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)
20	PPA15	12	25	16.2	33	50	95	94	M6	M5	168	20	12	130	28
25	PPA15	14	25	17.5	33	58	105	94	M6	M5	172	20	12	150	33
32	PPA15	12	25	17.5	33	68	115	94	M8	M5	178	20	12	160	36
40	PPA40	16	45	23.3	33	84	140	120	M8	M5	207	20	15	180	43
50	PPA40	16	45	23.3	33	97	150	120	M8	M5	213	20	15	200	45
63	PPA40	18	45	24.3	33	124	165	120	M8	M5	228	20	15	230	51
75	PPA40	18	70	28.5	33	166	166	142	M8	M5	277	20	15	290	68
90	PPA40	20	70	28.5	33	200	200	142	M8	M5	289	20	15	310	71
110	PPA80	20	120	28.5	33	238	238	142	M12	M5	324	20	22	350	82

d (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
20	159	27	80	30	51	38.0
25	159	30	80	30	51	41.9
32	159	36	80	30	51	47.0
40	184	44	80	30	62	53.5
50	184	51	80	30	62	62.8
63	184	64	80	30	62	77.0
75	184	85	80	30	74	119.0
90	184	105	80	30	74	131.0
110	261	123	80	30	74	145.0

Diaphragm valves type 517



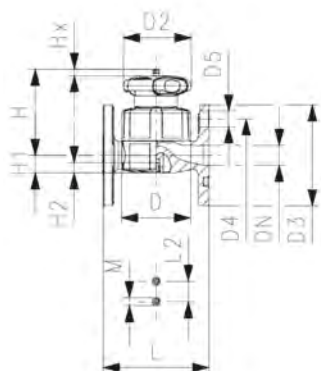
PROGEF Plus oil free Diaphragm valve type 517 With fixed flanges PP-H JIS

Model:

- Material: PP-H/oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- * O-Ring material: FKM



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
½	15	10	125	167 517 922	0.426	167 517 972	0.434
¾	20	10	271	167 517 923	0.504	167 517 973	0.514
1	25	10	481	167 517 924	1.149	167 517 974	1.168
1 ¼	32	10	759	167 517 925	1.443	167 517 975	1.462
1 ½	40	10	1263	167 517 926	2.420	167 517 976	2.449
2	50	10	1728	167 517 927	3.055	167 517 977	3.082

Size (inch)	D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
½	65	65	95	70	15	73	14	12	110	25	M6	7
¾	80	65	100	75	15	81	18	12	120	25	M6	10
1	88	87	125	90	19	107	22	12	130	25	M6	13
1 ¼	101	87	135	100	19	115	26	15	180	45	M8	15
1 ½	117	135	140	105	19	148	32	15	180	45	M8	19
2	144	135	155	120	19	166	39	15	210	45	M8	25

Diaphragm valves pneumatic DIASTAR Six



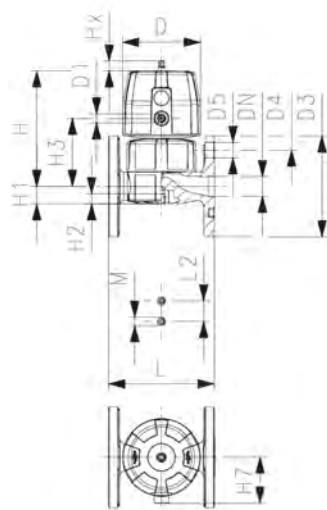
PROGEF Standard
Diaphragm valve DIASTAR Six
FC (Fail safe to close)
With fixed flanges PP-H JIS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)
3/4	20	6	271	167 617 913	1.023
1	25	6	481	167 617 914	1.263
1 1/4	32	6	759	167 617 915	2.082
1 1/2	40	6	960	167 617 916	2.570
2	50	6	1181	167 617 917	3.432

Size (inch)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
3/4	96	3/8	100	75	15	132	18	12	73	57	120	25	M6	10
1	96	3/8	125	90	19	143	22	12	84	69	130	25	M6	13
1 1/4	120	3/8	135	100	19	173	26	15	99	69	180	45	M8	14
1 1/2	120	3/8	140	105	19	193	32	15	119	69	180	45	M8	16
2	120	3/8	155	120	19	205	39	15	132	69	210	45	M8	16

Diaphragm valves pneumatic DIASTAR Ten



PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With fixed flanges PP-H JIS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

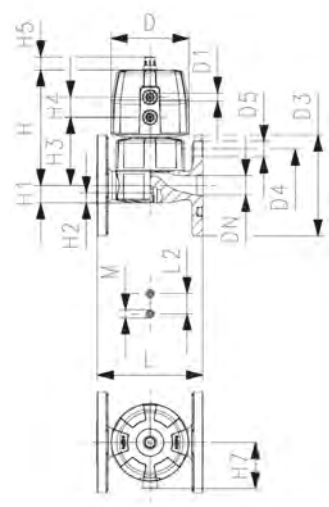
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM

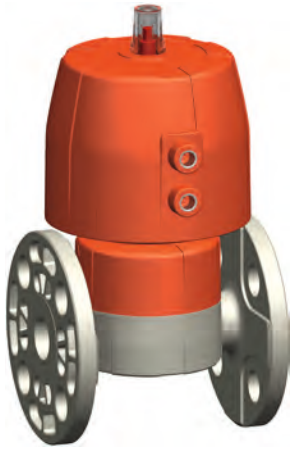


d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 657 912	0.554	167 657 932	0.562
25	20	¾	10	10*	271	167 657 913	0.888	167 657 933	0.898
32	25	1	10	10*	481	167 657 914	1.125	167 657 934	1.144
40	32	1 ¼	10	10*	759	167 657 915	1.812	167 657 935	1.831
50	40	1 ½	10	10*	1263	167 657 916	2.868	167 657 936	2.897
63	50	2	10	10*	1728	167 657 917	3.513	167 657 937	3.540

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅝	95	70	15	101	14	12	60	24	16	57	110	25	M6
96	⅝	100	75	15	132	18	12	73	25	16	57	120	25	M6
96	⅝	125	90	19	143	22	12	84	25	16	69	130	25	M6
120	⅝	135	100	19	173	26	15	99	26	26	88	180	45	M8
150	⅝	140	105	19	214	32	15	119	36	26	103	180	45	M8
150	⅝	155	120	19	226	39	15	132	36	26	103	210	45	M8

Lift =
Hx
(mm)

7
10
13
15
19
23



**PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With fixed flanges PP-H JIS**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

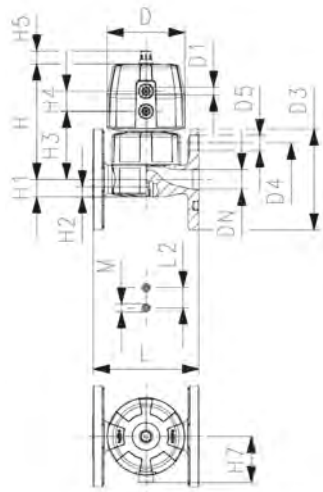
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 647 912	0.570	167 647 932	0.578
25	20	¾	10	10*	271	167 647 913	0.924	167 647 933	0.934
32	25	1	10	10*	481	167 647 914	1.155	167 647 934	1.174
40	32	1 ¼	10	10*	759	167 647 915	1.872	167 647 935	1.891
50	40	1 ½	10	10*	1263	167 647 916	3.618	167 647 936	3.647
63	50	2	10	10*	1728	167 647 917	4.263	167 647 937	4.290

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅝	95	70	15	101	14	12	60	24	16	57	110	25	M6
96	⅝	100	75	15	132	18	12	73	25	16	57	120	25	M6
96	⅝	125	90	19	143	22	12	84	25	16	69	130	25	M6
120	⅝	135	100	19	173	26	15	99	26	26	88	180	45	M8
150	⅝	140	105	19	214	32	15	119	36	26	103	180	45	M8
150	⅝	155	120	19	226	39	15	132	36	26	103	210	45	M8

**Lift =
Hx
(mm)**

7
10
13
15
19
23



**PROGEF Standard Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
With fixed flanges PP-H JIS**

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

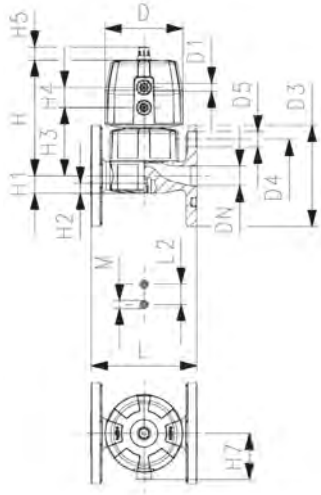
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (L/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	167 627 912	0.620	167 627 932	0.628
25	20	¾	10	10*	271	167 627 913	1.098	167 627 933	1.108
32	25	1	10	10*	481	167 627 914	1.335	167 627 934	1.354
40	32	1 ¼	10	10*	759	167 627 915	2.232	167 627 935	2.251
50	40	1 ½	10	10*	1263	167 627 916	3.708	167 627 936	3.737
63	50	2	10	6*	1728	167 627 917	4.353	167 627 937	4.380

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅝	95	70	15	101	14	12	60	24	16	43	110	25	M6
96	⅝	100	75	15	132	18	12	73	25	16	57	120	25	M6
96	⅝	125	90	19	143	22	12	84	25	16	69	130	25	M6
120	⅝	135	100	19	173	26	15	99	26	26	69	180	45	M8
150	⅝	140	105	19	193	32	15	119	36	26	88	180	45	M8
150	⅝	155	120	19	205	39	15	132	36	26	88	210	45	M8

**Lift =
Hx
(mm)**

7
10
13
15
19
23

Diaphragm valves pneumatic DIASTAR TenPlus



PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close) low pressure
With fixed flanges PP-H JIS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

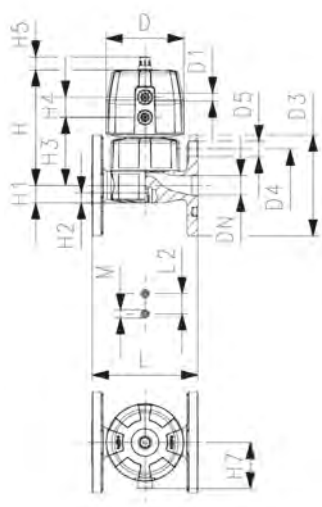
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **both sides**

* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	8*	125	167 687 912	1.020	167 687 932	1.028
25	20	¾	10	8*	271	167 687 913	1.098	167 687 933	1.108
32	25	1	10	8*	481	167 687 914	1.929	167 687 934	1.948
40	32	1 ¼	10	8*	759	167 687 915	3.302	167 687 935	3.321
50	40	1 ½	10	8*	1263	167 687 916	5.116	167 687 936	5.145
63	50	2	10	6*	1728	167 687 917	5.760	167 687 937	5.787

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
96	¾	95	70	15	127	14	12	68	25	16	57	110	25	M6
96	¾	100	75	15	132	18	12	73	25	16	57	120	25	M6
120	½	125	90	19	167	22	12	93	26	26	69	130	25	M6
150	¼	135	100	19	196	26	15	101	36	26	88	180	45	M8
180	¼	140	105	19	239	32	15	124	37	26	103	180	45	M8
180	¼	155	120	19	251	39	15	137	37	26	103	210	45	M8

Lift =
Hx
 (mm)

7
10
13
15
19
23

PROGEF Plus



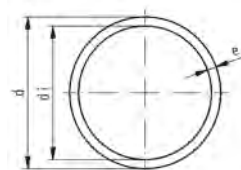
	Pipes	392
	Butt fusion fittings	393
	Butt fusion unions and o-rings	399
	Socket fusion unions and o-rings	401
	Butt fusion flange adaptors	403
	Ball valves type 543 Pro	408
	Ball valves type 546 Pro	418
	Butterfly valves type 567	426
	Butterfly valves type 578	428
	Diaphragm valves type 317	430
	Diaphragm valves type 514	431
	Diaphragm valves type 515	433
	Diaphragm valves type 517	434
	Diaphragm valves type 519	436
	Diaphragm valves pneumatic DIASTAR Six	438
	Diaphragm valves pneumatic DIASTAR Ten	439
	Diaphragm valves pneumatic DIASTAR TenPlus	441



Cone check valves

442

Pipes



PROGEF Plus pipe SDR11/PN10/S5

Model:

- Material: PP-H - homopolymer
- dimensions: acc. to DIN 8077/78
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends
- both ends closed with caps, double bagged into foil
- **Note 1:** DIBT Z-40.23-4 Approval
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)
1	20	11	10	167 481 711	0.107	1.9
1	25	11	10	167 481 712	0.164	2.3
1	32	11	10	167 481 713	0.261	2.9
1	40	11	10	167 481 714	0.412	3.7
1	50	11	10	167 481 715	0.638	4.6
1	63	11	10	167 481 716	1.010	5.8
1	75	11	10	167 481 717	1.410	6.8
1	90	11	10	167 481 718	2.030	8.2
1	110	11	10	167 481 719	3.010	10.0
1	125	11	10	167 481 720	3.910	11.4
1	140	11	10	167 481 721	4.870	12.7
1	160	11	10	167 481 722	6.380	14.6
	180	11	10	167 481 723	8.070	16.4
	200	11	10	167 481 724	9.950	18.2
	225	11	10	167 481 725	12.600	20.5
	250	11	10	167 481 726	15.500	22.7
	280	11	10	167 481 727	19.400	25.4
	315	11	10	167 481 728	24.600	28.6
	355	11	10	167 481 730	31.200	32.2
	400	11	10	167 481 731	39.600	36.3

Butt fusion fittings



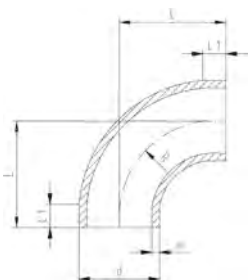
PROGEF Plus Bend 90° SDR11/PN10

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Cleaned and double bagged
- New code numbers in dimensions d125-d315 not available yet, please refer to the existing code numbers 727018690-727018452.



d (mm)	SDR	PN (bar)	FM	Type	Code	L (mm)	L1 (mm)	R (mm)	e (mm)
20	11	10	IR	1	727 018 681	38	23	15.00	1.9
25	11	10	IR	1	727 018 682	42	23	19.00	2.3
32	11	10	IR	1	727 018 683	46	22	24.00	2.9
40	11	10	IR	1	727 018 684	51	21	30.00	3.7
50	11	10	IR	1	727 018 685	58	21	37.00	4.6
63	11	10	IR	1	727 018 686	66	21	45.00	5.8
75	11	10	IR	1	727 018 472	75	21	71.25	6.8
90	11	10	IR	1	727 018 473	90	22	85.50	8.2
110	11	10	IR	1	727 018 474	110	25	104.50	10.0
125	11	10	IR	2	727 018 875	145	34	127.00	11.4
140	11	10	IR	2	727 018 876	162	38	142.00	12.7
160	11	10	IR	2	727 018 877	183	40	162.00	14.6
180	11	10	IR	2	727 018 878	200	38	182.00	16.4
200	11	10	IR	2	727 018 879	220	40	202.00	18.2
225	11	10	IR	2	727 018 880	245	41	228.00	20.5
250	11	10	IR	2	727 018 881	280	51	253.00	22.7
280	11	10	IR	2	727 018 882	310	52	283.00	25.4
315	11	10	IR	2	727 018 883	350	61	318.00	28.6

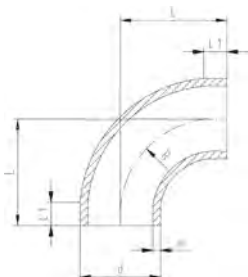




1



2



PROGEF Plus Bend 90° SDR11/PN10

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Cleaned and double bagged

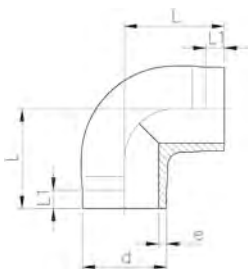
d (mm)	SDR	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
125	11	10	727 018 690	0.818	125	28	116.00	11.4
140	11	10	727 018 691	1.148	140	33	131.00	12.7
160	11	10	727 018 692	1.699	160	33	151.00	14.6
180	11	10	727 018 693	2.394	180	33	171.00	16.4
200	11	10	727 018 694	3.264	200	33	190.00	18.2
225	11	10	727 018 695	4.535	220	33	210.00	20.5
250	11	10	727 018 450	6.317	256	48	232.00	22.7
280	11	10	727 018 451	9.500	286	48	262.00	25.4
315	11	10	727 018 452	15.000	321	48	297.00	28.6



PROGEF Plus Elbow 90° SDR11/PN10

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Cleaned and double bagged



d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	11	10	IR	727 108 581	0.008	38	25	1.9
25	11	10	IR	727 108 582	0.010	42	26	2.3
32	11	10	IR	727 108 583	0.024	46	27	2.9
40	11	10	IR	727 108 584	0.050	51	22	3.7
50	11	10	IR	727 108 585	0.079	58	23	4.6
63	11	10	IR	727 108 586	0.138	66	21	5.8



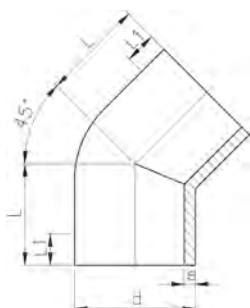
PROGEF Plus Elbow 45° SDR11/PN10

Model:

- Cleaned and double bagged
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Long version for d250, d280 and d315

¹ Material: PP-R

Material: PP-H



d	SDR	PN	FM	Code	Weight	L	L1	e
(mm)		(bar)			(kg)	(mm)	(mm)	(mm)
20	11	10	IR	727 158 581	0.006	32	24	1.9
25	11	10	IR	727 158 582	0.012	34	25	2.3
32	11	10	IR	727 158 583	0.021	36	25	2.9
40	11	10	IR	727 158 584	0.035	39	25	3.7
50	11	10	IR	727 158 585	0.057	42	26	4.6
63	11	10	IR	727 158 586	0.098	47	29	5.8
75	11	10	IR	727 158 587	0.139	49	29	6.8
90	11	10	IR	727 158 588	0.227	57	34	8.2
110	11	10	IR	727 158 589	0.421	70	43	10.0
125	11	10	IR	727 158 590	0.607	79	48	11.4
140	11	10	IR	727 158 591	0.860	88	55	12.7
160	11	10	IR	727 158 592	1.260	100	60	14.6
200	11	10	IR	727 158 594	2.418	124	75	18.2
225	11	10	IR	727 158 595	3.400	140	85	20.5
1	250	11	IR	727 158 596	7.772	225	133	22.7
1	280	11	IR	727 158 597	10.170	235	143	25.4
1	315	11	IR	727 158 598	13.656	255	154	28.6



PROGEF Plus Tee 90° equal SDR11/PN10

Model:

- Cleaned and double bagged
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Material: PP-H



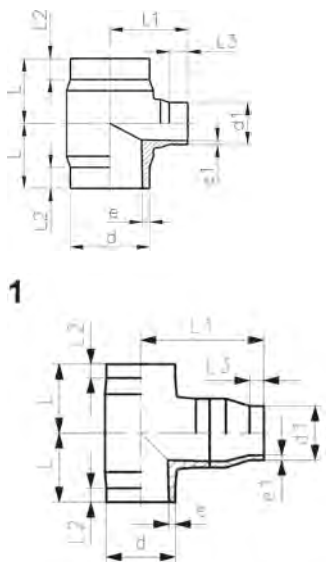
d	SDR	PN	FM	Code	Weight	L	L1	e
(mm)		(bar)			(kg)	(mm)	(mm)	(mm)
20	11	10	IR	727 208 581	0.090	38	17	1.9
25	11	10	IR	727 208 582	0.019	42	17	2.3
32	11	10	IR	727 208 583	0.033	46	17	2.9
40	11	10	IR	727 208 584	0.063	51	23	3.7
50	11	10	IR	727 208 585	0.106	58	22	4.6
63	11	10	IR	727 208 586	0.186	66	20	5.8
75	11	10	IR	727 208 587	0.294	75	20	6.8
90	11	10	IR	727 208 588	0.526	90	20	8.2
110	11	10	IR	727 208 589	0.935	110	20	10.0
125	11	10	IR	727 208 590	1.357	125	25	11.4
140	11	10	IR	727 208 591	2.209	140	28	12.7
160	11	10	IR	727 208 592	2.900	160	28	14.6
180	11	10	IR	727 208 693	5.475	215	94	16.4
200	11	10	IR	727 208 594	5.570	200	35	18.2
225	11	10	IR	727 208 595	7.882	220	35	20.5
250	11	10	IR	727 208 696	10.400	227	68	18.2
280	11	10	IR	727 208 697	15.170	267	87	25.4
315	11	10	IR	727 208 698	20.330	283	86	28.6



PROGEF Plus Tee 90° reduced SDR11/PN10

Model:

- Cleaned and double bagged
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Material: PP-H



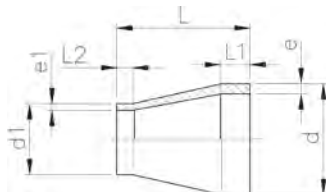
	d (mm)	d1 (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)	e1 (mm)
	63	32	11	10	IR	727 208 251	0.159	65	70	25	25	5.8	2,9
	63	40	11	10	IR	727 208 250	0.175	65	70	25	25	5.8	3,7
	63	50	11	10	IR	727 208 252	0.174	65	70	25	25	5.8	4,6
	75	32	11	10	IR	727 208 253	0.240	70	75	25	25	6.8	2,9
	75	50	11	10	IR	727 208 254	0.248	70	75	25	25	6.8	4,6
	75	63	11	10	IR	727 208 255	0.260	70	75	25	25	6.8	5,8
	90	50	11	10	IR	727 208 257	0.410	80	85	25	25	8.2	4,6
	90	63	11	10	IR	727 208 258	0.431	80	85	25	25	8.2	5,8
	90	75	11	10	IR	727 208 259	0.435	80	85	25	25	8.2	6,8
	110	32	11	10	IR	727 208 260	0.648	90	95	30	25	10.0	2,9
	110	50	11	10	IR	727 208 261	0.662	90	95	30	25	10.0	4,6
	110	63	11	10	IR	727 208 262	0.669	90	95	30	25	10.0	5,8
	110	75	11	10	IR	727 208 263	0.689	90	95	30	25	10.0	6,8
	110	90	11	10	IR	727 208 264	0.694	90	95	30	25	10.0	8,2
1	125	63	11	10	IR	727 208 265	1.680	125	230	25	16	11.4	5,8
1	125	90	11	10	IR	727 208 466	1.700	125	225	25	40	11.4	8,2
1	125	110	11	10	IR	727 208 267	1.700	125	217	25	30	11.4	10,0
1	140	75	11	10	IR	727 208 468	2.400	140	245	28	41	11.4	10,0
1	140	90	11	10	IR	727 208 469	2.500	140	240	28	40	12.7	6,8
1	140	110	11	10	IR	727 208 270	2.380	140	242	28	33	12.7	10,0
	160	125	11	10	IR	727 208 275	3.500	160	272	28	32	14.6	11,4
	200	160	11	10	IR	727 208 285	6.600	200	332	35	40	18.2	14,6
	200	180	11	10	IR	727 208 486	6.900	200	335	35	45	12.7	8,2
	160	63	11	10	IR	727 208 271	2.125	142	135	50	30	14.6	5,8
	160	75	11	10	IR	727 208 272	2.140	142	135	50	30	14.6	6,8
	160	90	11	10	IR	727 208 273	2.164	142	135	50	30	14.6	8,2
	160	110	11	10	IR	727 208 274	2.200	142	135	50	30	14.6	10,0
	225	90	11	10	IR	727 208 288	4.597	155	165	40	30	20.5	8,2
	225	110	11	10	IR	727 208 289	4.524	155	165	40	30	20.5	10,0
	225	160	11	10	IR	727 208 291	4.710	155	165	40	30	20.5	14,6
1	250	160	11	10	IR	727 208 493	4.530	227	387	68	53	22.7	14,6



PROGEF Plus Reducer SDR11/PN10

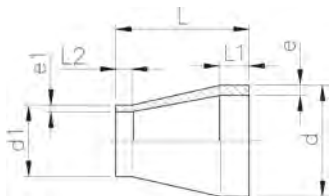
Model:

- Cleaned and double bagged
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Material: PP-H

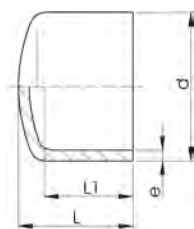


	d (mm)	d1 (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
	25	20	11	10	IR	727 908 637	0.008	50	20	20	2.3	1,9
	32	20	11	10	IR	727 908 642	0.012	50	20	20	2.9	1,9
	32	25	11	10	IR	727 908 641	0.013	50	20	20	2.9	2,3
	40	20	11	10	IR	727 908 648	0.015	58	20	23	3.7	1,9
	40	25	11	10	IR	727 908 647	0.017	55	20	20	3.7	2,3
	40	32	11	10	IR	727 908 646	0.019	55	20	20	3.7	2,9
	50	25	11	10	IR	727 908 654	0.026	60	20	20	4.6	2,3
	50	32	11	10	IR	727 908 653	0.026	60	20	20	4.6	2,9
	50	40	11	10	IR	727 908 652	0.032	60	20	20	4.6	3,7
	63	32	11	10	IR	727 908 660	0.046	65	20	20	5.8	2,9

table continued on the next page



d	d1	SDR	PN	FM	Code	Weight	L	L1	L2	e	e1
(mm)	(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
63	40	11	10	IR	727 908 659	0.048	65	20	20	5.8	3,7
63	50	11	10	IR	727 908 658	0.051	65	20	20	5.8	4,6
75	40	11	10	IR	727 908 666	0.063	68	20	20	6.8	3,7
75	50	11	10	IR	727 908 665	0.072	65	20	20	6.8	4,6
75	63	11	10	IR	727 908 664	0.079	65	20	20	6.8	5,8
90	63	11	10	IR	727 908 671	0.119	75	22	19	8.2	5,8
90	75	11	10	IR	727 908 670	0.131	75	21	19	8.2	6,8
110	63	11	10	IR	727 908 672	0.201	90	28	28	10.6	6,2
110	75	11	10	IR	727 908 677	0.211	90	28	18	10.0	6,8
110	90	11	10	IR	727 908 676	0.231	90	28	20	10.0	8,2
125	110	11	10	IR	727 908 680	0.325	100	31	30	11.4	10,0
140	110	11	10	IR	727 908 685	0.430	110	33	29	12.7	10,0
140	125	11	10	IR	727 908 684	0.468	110	34	30	12.7	11,4
160	110	11	10	IR	727 908 690	0.595	120	38	27	14.6	10,0
160	140	11	10	IR	727 908 688	0.652	120	40	35	14.6	12,7
180	90	11	10	IR	727 908 780	0.800	145	50	40	16.4	8,2
180	110	11	10	IR	727 908 781	1.010	150	50	40	16.4	10,0
180	125	11	10	IR	727 908 782	0.985	145	52	40	16.4	11,4
180	140	11	10	IR	727 908 783	0.995	135	51	47	16.4	12,7
180	160	11	10	IR	727 908 784	1.020	135	55	52	16.4	14,6
200	160	11	10	IR	727 908 692	1.120	145	50	40	18.2	14,6
200	180	11	10	IR	727 908 785	1.300	145	50	45	18.2	16,4
225	110	11	10	IR	727 908 695	1.489	160	55	35	20.5	10,0
225	160	11	10	IR	727 908 696	1.590	160	55	40	20.5	14,6
225	180	11	10	IR	727 908 786	1.770	163	60	58	20.5	16,4
225	200	11	10	IR	727 908 697	1.650	160	55	50	20.5	18,2
250	160	11	10	IR	727 908 787	2.140	170	63	53	22.7	14,6
250	225	11	10	IR	727 908 788	2.750	180	65	65	22.7	20,5
280	225	11	10	IR	727 908 789	3.425	203	72	57	25.4	20,5
280	250	11	10	IR	727 908 790	1.980	206	75	60	25.4	22,7
315	225	11	10	IR	727 908 791	5.110	237	84	60	28.6	20,5
315	250	11	10	IR	727 908 792	5.105	231	86	63	28.6	22,7
315	280	11	10	IR	727 908 793	5.130	222	80	70	28.6	25,4



PROGEF Plus End cap SDR11/PN10

Model:

- Cleaned and double bagged
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Material: PP-H

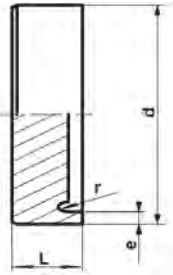
d	SDR	PN	FM	Code	Weight	L	L1	e
(mm)		(bar)			(kg)	(mm)	(mm)	(mm)
20	11	10	IR	727 968 961	0.005	49	42	1.9
25	11	10	IR	727 968 962	0.007	52	42	2.3
32	11	10	IR	727 968 963	0.016	57	47	2.9
40	11	10	IR	727 968 964	0.023	64	51	3.7
50	11	10	IR	727 968 965	0.048	72	59	4.6
63	11	10	IR	727 968 966	0.087	86	67	5.8
75	11	10	IR	727 968 967	0.138	94	73	6.8
90	11	10	IR	727 968 968	0.222	112	83	8.2
110	11	10	IR	727 968 969	0.375	124	90	10.0
125	11	10	IR	727 968 970	0.520	130	94	11.4
140	11	10	IR	727 968 971	0.695	142	99	12.7
160	11	10	IR	727 968 972	1.040	162	109	14.6
180	11	10	IR	727 968 973	1.375	170	113	16.4
200	11	10	IR	727 968 974	1.860	179	117	18.2
225	11	10	IR	727 968 975	2.625	203	127	20.5



PROGEF Plus End cap
SDR11/PN10 short

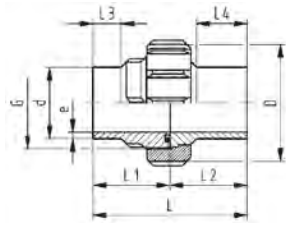
Model:

- Conventional butt-welding according to DVS 2207
- Cleaned and double bagged
- Machined
- Material: PP-H



d	SDR	PN	Code	Weight	L	e
(mm)		(bar)		(kg)	(mm)	(mm)
250	11	10	727 968 896	1.900	60	22.7
280	11	10	727 968 897	2.600	65	25.4
315	11	10	727 968 898	3.600	70	28.6

Butt fusion unions and o-rings



PROGEF Plus Union SDR11/PN10

Model:

- Cleaned and double bagged
- With butt fusion ends
- IR = Infrared welding compatible
- Material: PP-H

d (mm)	D (mm)	SDR	PN (bar)	FM	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	48	11	10	IR	727 518 606	0.048	727 528 606	0.047
25	58	11	10	IR	727 518 607	0.073	727 528 607	0.074
32	65	11	10	IR	727 518 608	0.100	727 528 608	0.100
40	79	11	10	IR	727 518 609	0.141	727 528 609	0.142
50	91	11	10	IR	727 518 610	0.190	727 528 610	0.191
63	111	11	10	IR	727 518 611	0.329	727 528 611	0.333
75	138	11	10	IR	727 518 712	0.516	727 528 712	0.520
90	161	11	10	IR	727 518 713	0.533	727 528 713	0.539
110	191	11	10	IR	727 518 714	0.754	727 528 714	0.758

d (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	G (inch)	e (mm)	Size	O-Ring EPDM	O-Ring FKM
20	107.0	54.0	53.0	26	1	1.9	20,22 x 3,53	748.413.006	749.413.006
25	113.0	57.0	56.0	26	1 1/4	2.3	28,17 x 3,53	748.413.007	749.413.007
32	119.0	60.0	59.0	26	1 1/2	2.9	32,93 x 3,53	748.413.008	749.413.008
40	126.0	63.0	63.0	26	2	3.7	40,65 x 5,34	748.413.009	749.413.009
50	131.0	66.0	66.0	26	2 1/4	4.6	47,00 x 5,34	748.413.010	749.413.010
63	137.0	69.0	68.0	26	2 3/4	5.8	59,69 x 5,34	748.413.011	749.413.011
75	134.5	68.5	66.0	26	S110x5	6.8	66,04 x 5,34	748.410.024	749.410.024
90	134.5	68.5	66.0	26	S110x5	8.2	74,63 x 5,34	748.410.383	749.410.383
110	139.5	74.0	65.5	33	S130x5	10.0	94,62 x 5,34	748.410.248	749.410.248



O-ring silicone free

Model:

- Silicone free/paint-compatible
- Hardness approx. 65° Shore
- For unions
- Double bagged, 2 pcs in bag

d (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)
16	748 413 005	0.002	749 413 005	0.002	21	16	2.62
20	748 413 006	0.002	749 413 006	0.003	27	20	3.53
25	748 413 007	0.002	749 413 007	0.002	35	28	3.53
32	748 413 008	0.003	749 413 008	0.003	40	33	3.53
40	748 413 009	0.003	749 413 009	0.006	51	41	5.33
50	748 413 010	0.005	749 413 010	0.007	58	47	5.33
63	748 413 011	0.005	749 413 011	0.010	70	60	5.33
75	748 413 014	0.007	749 413 014	0.012	93	82	5.33
90	748 413 015	0.008	749 413 015	0.015	112	101	5.33
110	748 413 016	0.016	749 413 016	0.031	134	120	6.99



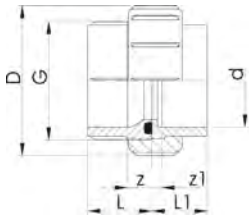
PROGEF Standard Union nut PP-H

Model:

- Material: PP glass-fibre reinforced
- d75-d110 new thread design since 2022

PN (bar)	Butt Fusion d (mm)	G (R/Rp BS Thread) (inch)	Socket Fu- sion d (mm)	Code	Weight (kg)	L (mm)	D (mm)
10	16	3/4	16	727 890 405	0.007	21	35
10	20	1	20	727 890 406	0.023	21	47
10	25	1 1/4	25	727 890 407	0.035	23	56
10	32	1 1/2	32	727 890 408	0.044	24	63
10	40	2	40	727 890 409	0.044	27	77
10	50	2 1/4	50	727 890 410	0.062	30	84
10	63	2 3/4	63	727 890 411	0.119	39	111
10	110	S130x5	90	727 890 113	0.400	48	161
10		S155x5	110	727 890 114	0.499	52	191
10	75 - 90	S110x5	75	727 890 112	0.205	46	138

Socket fusion unions and o-rings



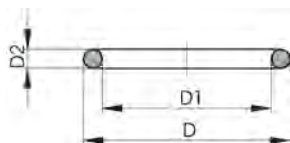
PROGEF Plus Union PN10

Model:

- Material: PP-H
- Fusion socket metric
- d75-110 with new thread geometry, now rated PN10 up to d110
- Jointing face: with O-ring
- Cleaned and double bagged

d (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	727 510 255	0.020	727 520 255	0.020
20	10	727 510 256	0.041	727 520 256	0.039
25	10	727 510 257	0.064	727 520 257	0.063
32	10	727 510 258	0.079	727 520 258	0.079
40	10	727 510 259	0.137	727 520 259	0.137
50	10	727 510 260	0.135	727 520 260	0.180
63	10	727 510 261	0.251	727 520 261	0.312
75	10	727 510 292	0.427	727 520 292	0.432
90	10	727 510 293	0.617	727 520 293	0.625
110	10	727 510 294	1.161	727 520 294	1.009

d (mm)	L (mm)	L1 (mm)	D (mm)	G (inch)	z (mm)	z1 (mm)	Size	O-Ring EPDM	O-Ring FKM
16	24	18	35	3/4	5	11	15,54 x 2,62	748.413.005	749.413.005
20	26	19	48	1	5	12	20,22 x 3,53	748.413.006	749.413.006
25	28	21	58	1 1/4	5	12	28,17 x 3,53	748.413.007	749.413.007
32	30	23	65	1 1/2	5	12	32,93 x 3,53	748.413.008	749.413.008
40	34	25	79	2	5	14	40,65 x 5,54	748.413.009	749.413.009
50	39	28	91	2 1/4	5	16	47,00 x 5,34	748.413.010	749.413.010
63	47	32	111	2 3/4	5	20	59,69 x 5,34	748.413.011	749.413.011
75	51	36	135	S110 x 5	3	18	74,63 x 5,34	748.410.383	749.410.383
90	55	42	158	S130 x 5	5	18	94,62 x 5,34	748.410.248	749.410.248
110	54	49	188	S155 x 5	6	12	114,7 x 6,99	748.410.384	749.410.384



O-ring silicone free

Model:

- Silicone free/paint-compatible
- Hardness approx. 65° Shore
- For unions
- Double bagged, 2 pcs in bag

d (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)
16	748 413 005	0.002	749 413 005	0.002	21	16	2.62
20	748 413 006	0.002	749 413 006	0.003	27	20	3.53
25	748 413 007	0.002	749 413 007	0.002	35	28	3.53
32	748 413 008	0.003	749 413 008	0.003	40	33	3.53
40	748 413 009	0.003	749 413 009	0.006	51	41	5.33
50	748 413 010	0.005	749 413 010	0.007	58	47	5.33
63	748 413 011	0.005	749 413 011	0.010	70	60	5.33
75	748 413 014	0.007	749 413 014	0.012	93	82	5.33
90	748 413 015	0.008	749 413 015	0.015	112	101	5.33
110	748 413 016	0.016	749 413 016	0.031	134	120	6.99



PROGEF Standard Union nut PP-H

Model:

- Material: PP glass-fibre reinforced
- d75-d110 new thread design since 2022

PN (bar)	Butt Fusion d (mm)	G (R/Rp BS Thread) (inch)	Socket Fu- sion d (mm)	Code	Weight (kg)	L (mm)	D (mm)
10	16	3/4	16	727 890 405	0.007	21	35
10	20	1	20	727 890 406	0.023	21	47
10	25	1 1/4	25	727 890 407	0.035	23	56
10	32	1 1/2	32	727 890 408	0.044	24	63
10	40	2	40	727 890 409	0.044	27	77
10	50	2 1/4	50	727 890 410	0.062	30	84
10	63	2 3/4	63	727 890 411	0.119	39	111
10	110	S130x5	90	727 890 113	0.400	48	161
10		S155x5	110	727 890 114	0.499	52	191
10	75 - 90	S110x5	75	727 890 112	0.205	46	138

Butt fusion flange adaptors

Type A



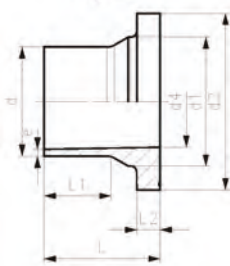
Type B



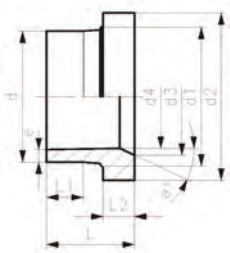
Type C



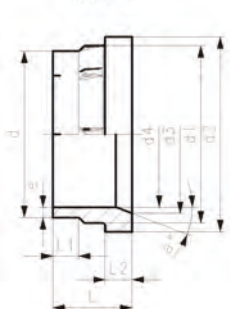
Type A



Type B



Type C



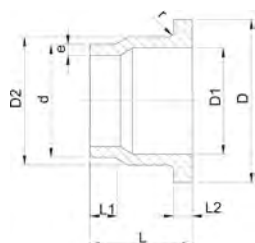
PROGEF Plus Flange adaptor SDR11/PN10 combined jointing face: flat and serrated

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR- Infrared welding compatible
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Suitable for butterfly valve type 567/578 and 038/039
- Gasket: profile flange gasket EPDM No. 48 44 17, FKM No. 49 44 17
- Cleaned and double bagged

d	DN	SDR	PN	FM	Type	Code	Weight
(mm)	(mm)		(bar)				(kg)
20	15	11	10	IR	A	727 798 731	0.015
25	20	11	10	IR	A	727 798 732	0.028
32	25	11	10	IR	A	727 798 733	0.042
40	32	11	10	IR	A	727 798 734	0.064
50	40	11	10	IR	A	727 798 735	0.094
63	50	11	10	IR	A	727 798 736	0.144
75	65	11	10	IR	B	727 798 737	0.243
90	80	11	10	IR	B	727 798 738	0.330
110	100	11	10	IR	B	727 798 739	0.444
125	100	11	10	IR	B	727 798 740	0.520
140	125	11	10	IR	B	727 798 741	0.800
160	150	11	10	IR	B	727 798 017	0.930
180	150	11	10	IR	B	727 798 773	1.026
200	200	11	10	IR	C	727 798 774	1.652
225	200	11	10	IR	C	727 798 020	2.100
250	250	11	10		C	727 798 021	2.630
280	250	11	10		C	727 798 777	2.784
315	300	11	10		C	727 798 023	4.800

d	DN	d1	d2	d3	d4	L	L1	L2	e	a°
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
20	15	26	45		16	50	29	7	1.9	
25	20	32	58		20	52	27	9	2.3	
32	25	40	68		26	54	28	10	2.9	
40	32	49	78		32	56	25	11	3.7	
50	40	60	88		40	62	32	12	4.6	
63	50	75	102		51	68	38	14	5.8	
75	65	89	122	66	61	80	43	16	6.8	30
90	80	105	138	78	73	80	41	17	8.2	30
110	100	125	158	100	90	80	40	18	10.0	30
125	100	132	158	114	102	82	35	25	11.4	25
140	125	155	188	127	114	89	39	25	12.7	27
160	150	175	212	151	131	107	40	25	14.6	30
180	150	180	212	154	148	92	40	30	17.5	30
200	200	232	268	203	174	100	35	32	19.3	30
225	200	235	268	210	184	133	45	32	20.5	30
250	250	285	320	252	203	120	45	36	24.0	
280	250	291	320	265	228	120	45	37	26.8	30
315	300	338	370	300	256	150	50	52	30.2	22



PROGEF Plus Outlet flange adaptor SDR11/PN10 combined jointing face: flat and serrated

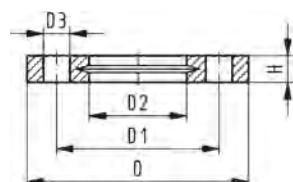
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- To wafer check valves type 369
- Cleaned and double bagged

Attention:

- In conjunction with Outlet flange adaptors, **flange rings for socket systems** must be used.

d	DN	SDR	PN	Code	Weight	L	L1	L2	D	D1	D2	r	e
(mm)	(mm)		(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
40	32	11	10	727 808 134	0.064	64	30	11	80	37	50	3	3.7
50	40	11	10	727 808 135	0.088	67	30	12	90	43	61	3	4.6
63	50	11	10	727 808 136	0.126	74	30	14	105	54	76	4	5.8
75	65	11	10	727 808 137	0.187	78	30	16	125	70	90	4	6.8
90	80	11	10	727 808 138	0.346	87	35	17	140	82	108	4	8.2
110	100	11	10	727 808 139	0.481	102	41	18	160	105	131	4	10.0
140	125	11	10	727 808 141	0.710	124	47	25	190	130	165	4	12.7
160	150	11	10	727 808 142	1.255	149	52	25	215	158	188	4	14.6
225	200	11	10	727 808 145	1.830	180	55	32	270	206	248	4	20.5
280	250	11	10	727 808 147	3.550	240	63	35	325	259	308	4	25.4
315	300	11	10	727 808 148	4.960	272	66	35	375	308	346	4	28.6



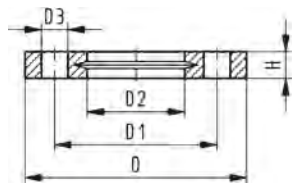
Flanges PP-V (full plastic)

Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

d	DN	d	PN	Standard	Bolt / circle	Design	Code	Weight
(mm)	(mm)	(inch)	(bar)					(kg)
20	15		16	Metric	PN10	Butt/Socket	727 700 406	0.093
25	20		16	Metric	PN10	Butt/Socket	727 700 407	0.120
32	25		16	Metric	PN10	Butt/Socket	727 700 408	0.151
40	32		16	Metric	PN10	Butt/Socket	727 700 409	0.244
50	40		16	Metric	PN10	Butt/Socket	727 700 410	0.297
63	50		16	Metric	PN10	Butt/Socket	727 700 411	0.362
75	65		16	Metric	PN10	Butt/Socket	727 700 412	0.487
90	80		16	Metric	PN10	Butt	727 700 513	0.544
110	100		16	Metric	PN10	Butt	727 700 514	0.643
125	100		16	Metric	PN10	Butt	727 700 515	0.635
140	125		16	Metric	PN10	Butt	727 700 516	0.842
160	150	6	16	Metric/ASME	PN10/ class 150	Butt	727 700 517	1.200
180	150		16	Metric/ASME	PN10/ Class 150	Butt	727 700 518	1.200
200	200	8	16	Metric/ASME	PN10/ class 150	Butt	727 700 519	1.400
225	200	8	16	Metric/ASME	PN10/ class 150	Butt	727 700 520	1.400
250	250		10	Metric	PN10	Butt	727 700 521	2.052
280	250		10	Metric	PN10	Butt	727 700 522	1.700
315	300		10	Metric	PN10	Butt	727 700 523	2.400
355	350		10	Metric	PN10	Butt	727 700 524	4.440
400	400		10	Metric	PN10	Butt	727 700 525	5.624



d	D	D1	D2	D3	H max.	AL	SC
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
20	95	65	28	14	16	4	M12
25	105	75	34	14	17	4	M12
32	115	85	42	14	18	4	M12
40	140	100	51	18	20	4	M16
50	150	110	62	18	22	4	M16
63	165	125	78	18	24	4	M16
75	185	145	92	18	26	4	M16
90	200	160	108	18	27	8	M16
110	220	180	128	18	28	8	M16
125	220	180	135	18	28	8	M16
140	250	210	158	18	30	8	M16
160	285	240	178	22	32	8	M20
180	285	240	188	22	32	8	M20
200	340	297	235	22	34	8	M20
225	340	297	238	22	34	8	M20
250	395	350	288	22	38	12	M20
280	395	350	294	22	38	12	M20
315	445	400	338	22	42	12	M20
355	515	460	376	22	46	16	M20
400	574	515	430	26	50	16	M24

Flanges PP-Steel

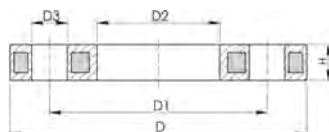
Model:

- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

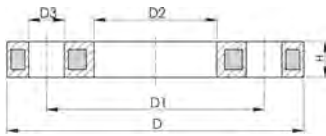
AL: number of holes

¹⁾ FM 1613 approved – 15 bar

²⁾ Profiled loose flange



	d	DN	D	PN	Standard	Bolt /	Design	Code	Weight
	(mm)	(mm)	(mm)	(bar)		circle			(kg)
	20	15	95	16	Metric	PN10	Butt/Socket	727 700 206	0.216
	25	20	105	16	Metric	PN10	Butt/Socket	727 700 207	0.279
	40	32	140	16	Metric	PN10	Butt/Socket	727 700 209	0.621
	50	40	150	16	Metric	PN10	Butt/Socket	727 700 210	0.722
	63	50	165	16	Metric	PN10	Butt/Socket	727 700 211	0.900
	75	65	185	16	Metric	PN10	Butt/Socket	727 700 212	1.110
1	90	80	200	16	Metric	PN10	Butt	724 700 313	1.390
	90	80	200	16	Metric	PN10	Butt	727 700 313	1.390
1	110	100	223	16	Metric	PN10	Butt	724 700 314	1.407
	110	100	220	16	Metric	PN10	Butt	727 700 314	1.407
1	125	100	223	16	Metric	PN10	Butt	724 700 315	1.408
	125	100	220	16	Metric	PN10	Butt	727 700 315	1.408
1	140	125	250	16	Metric	PN10	Butt	724 700 316	2.318
	140	125	250	16	Metric	PN10	Butt	727 700 716	2.318
1	160	150	285	16	Metric	PN10	Butt	724 700 317	3.491
	160	150	285	16	Metric/ASME	PN10/ class 150	Butt	727 700 717	3.491
1	180	150	285	16	Metric	PN10	Butt	724 700 318	3.108
	180	150	285	16	Metric/ASME	PN10/ Class 150	Butt	727 700 718	3.108
1, 2	200	200	344	16	Metric	PN16	Butt	724 700 319	3.549
	200	200	340	16	Metric/ASME	PN10/ class 150	Butt	727 700 719	5.600
1, 2	225	200	344	16	Metric	PN16	Butt	724 700 320	3.380
	225	200	340	16	Metric/ASME	PN10/ class 150	Butt	727 700 720	5.533
1, 2	250	250	410	16	Metric	PN16	Butt	724 700 321	6.390
	250	250	395	16	Metric	PN10	Butt	727 700 721	6.632



	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
1, 2	280	250	410	16	Metric	PN16	Butt	724 700 322	6.310
	280	250	395	16	Metric	PN10	Butt	727 700 722	6.573
1, 2	315	300	455	16	Metric	PN16	Butt	724 700 323	9.740
	315	300	445	16	Metric	PN10	Butt	727 700 723	7.903
1, 2	355	350	521	16	Metric	PN16	Butt	724 700 324	15.203
	355	350	515	16	Metric	PN10	Butt	727 700 724	14.587
1, 2	400	400	582	16	Metric	PN16	Butt	724 700 325	20.600
	400	400	574	16	Metric	PN10	Butt	727 700 725	20.034
1, 2	450	500	685	10	Metric	PN10	Butt	724 700 426	25.600
1, 2	500	500	685	10	Metric	PN10	Butt	724 700 427	21.061
2	560	600	796	10	Metric	PN10	Butt	724 700 428	35.000
2	630	600	800	10	Metric	PN10	Butt	724 700 429	28.500
2	710	700	912	6	Metric	PN10	Butt	724 700 430	25.500
2	800	800	1026	6	Metric	PN10	Butt	724 700 431	39.300
2	900	900	1129	6	Metric	PN10	Butt	724 700 432	48.500

	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
	20	65	28	14	12	4	M12
	25	75	34	14	12	4	M12
	40	100	51	18	16	4	M16
	50	110	62	18	20	4	M16
	63	125	78	18	20	4	M16
	75	145	92	18	20	4	M16
1	90	160	108	18	20	8	M16
	90	160	108	18	20	8	M16
1	110	180	128	18	20	8	M16
	110	180	128	18	20	8	M16
1	125	180	135	18	20	8	M16
	125	180	135	18	20	8	M16
1	140	210	158	18	24	8	M16
	140	210	158	18	24	8	M16
1	160	240	178	22	28	8	M20
	160	240	178	22	24	8	M20
1	180	240	188	22	28	8	M20
	180	240	188	22	24	8	M20
1, 2	200	295	235	22	31	12	M20
	200	295	235	22	27	8	M20
1, 2	225	295	238	22	31	12	M20
	225	297	238	22	27	8	M20
1, 2	250	355	288	26	35	12	M24
	250	350	288	22	30	12	M20
1, 2	280	355	294	26	36	12	M24
	280	350	294	22	30	12	M20
1, 2	315	410	338	26	43	12	M24
	315	400	338	22	34	12	M20
1, 2	355	470	376	26	55	16	M24
	355	460	376	23	40	16	M20
1, 2	400	525	430	30	56	16	M27
	400	515	430	26	40	16	M24
1, 2	450	620	517	26	56	20	M24
1, 2	500	620	533	26	56	20	M24
2	560	725	618	30	68	20	M27
2	630	725	645	30	68	20	M27
2	710	840	740	30	49	24	M27
2	800	950	843	33	58	24	M30
2	900	1050	947	33	62	28	M30

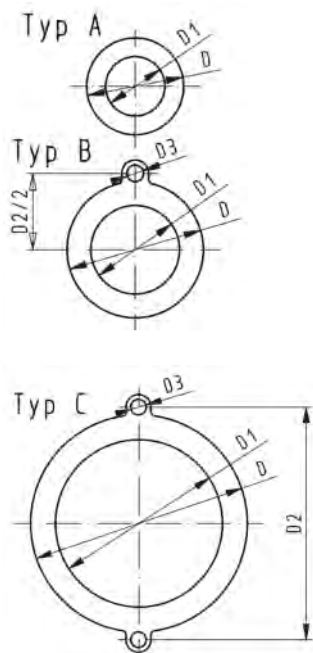


Flat gasket EPDM

Model:

- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flanges adaptors



d (mm)	DN (mm)	PN (bar)	Type	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	di FA (mm)
16	10	10	A	748 400 305	0.004	46	16			2	6 - 26
20	15	10	A	748 400 306	0.012	51	20			2	10 - 30
25	20	10	A	748 400 307	0.004	61	25			2	15 - 35
32	25	10	A	748 400 308	0.008	71	32			2	22 - 42
40	32	10	A	748 400 309	0.013	82	40			3	30 - 50
50	40	10	A	748 400 310	0.016	92	50			3	40 - 60
63	50	10	A	748 400 311	0.018	107	63			3	53 - 73
75	65	10	A	748 400 312	0.029	127	71			3	61 - 81
90	80	10	A	748 400 313	0.035	142	84			3	74 - 94
110	100	10	B	748 400 314	0.051	162	104	180	18	4	94 - 114

Profile Flange Gasket EPDM/FKM metric

Model:

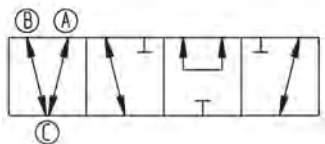
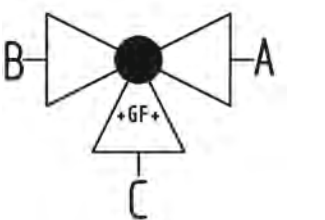
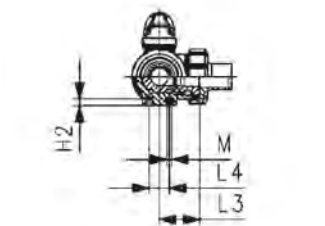
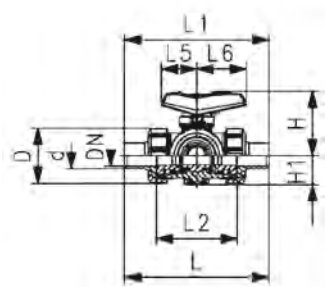
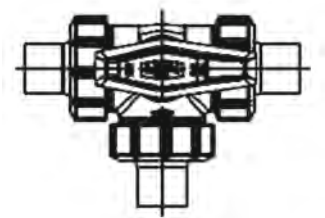
- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

di FA are the suitable inner diameters of flanges adaptors



d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
16	10	16	748 440 705	749 440 705	0.012	46	16	6 - 16	4	3
20	15	16	748 440 706	749 440 706	0.013	51	20	10 - 20	4	3
25	20	16	748 440 707	749 440 707	0.014	61	22	12 - 22	4	3
32	25	16	748 440 708	749 440 708	0.019	71	28	18 - 28	4	3
40	32	16	748 440 709	749 440 709	0.026	82	40	30 - 40	4	3
50	40	16	748 440 710	749 440 710	0.039	92	46	36 - 46	4	3
63	50	16	748 440 711	749 440 711	0.050	107	58	48 - 58	5	4
75	65	16	748 440 712	749 440 712	0.082	127	69	59 - 69	5	4
90	80	16	748 440 713	749 440 713	0.083	142	84	73 - 84	5	4
110	100	16	748 440 714	749 440 714	0.127	162	104	94 - 104	6	5

Ball valves type 543 Pro



PROGEF Plus 3-Way ball valve type 543 Pro silicone free
Horizontal/T-port
With butt fusion spigots IR-Plus/SDR11 metric

Model:

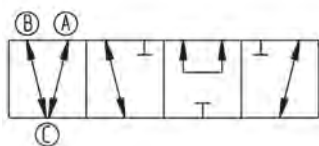
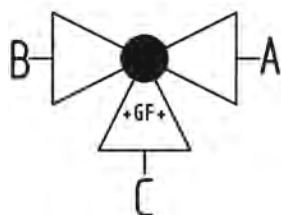
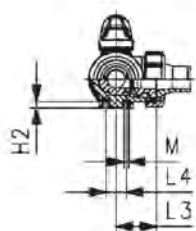
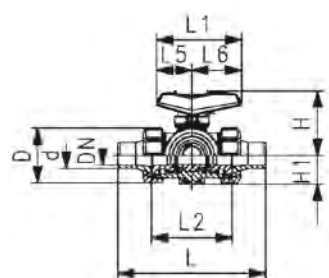
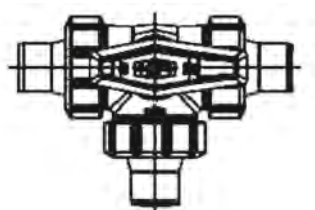
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
20	15	10	200	167 543 542	0.172	167 543 552	0.170
25	20	10	470	167 543 543	0.245	167 543 553	0.245
32	25	10	793	167 543 544	0.372	167 543 554	0.372
40	32	10	1290	167 543 545	0.622	167 543 555	0.622
50	40	10	1910	167 543 546	0.939	167 543 556	0.939
63	50	10	3100	167 543 547	1.826	167 543 557	1.826

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	e	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
														(inch)
20	50	61	28	8	146	82	72	36	25	35	47	6	1.9	1/2
25	58	74	32	8	163	106	85	43	25	44	62	6	2.3	3/4
32	68	80	36	8	178	106	98	49	25	44	62	6	2.9	1
40	84	95	45	9	204	131	118	59	45	57	74	8	3.7	1 1/4
50	97	102	51	9	237	131	135	68	45	57	74	8	4.6	1 1/2
63	124	117	65	9	296	152	176	88	45	66	86	8	5.8	2



PROGEF Plus 3-Way ball valve type 543 Pro silicone free Horizontal/T-port With socket fusion spigots metric

Model:

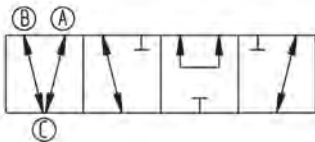
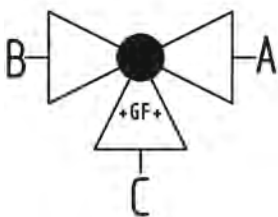
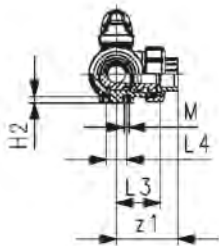
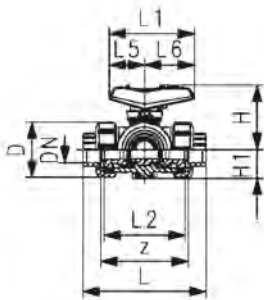
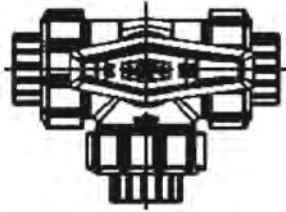
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	140	167 543 521	0.164	167 543 531	0.164
20	15	10	200	167 543 522	0.170	167 543 532	0.170
25	20	10	470	167 543 523	0.245	167 543 533	0.245
32	25	10	793	167 543 524	0.372	167 543 534	0.372
40	32	10	1290	167 543 525	0.622	167 543 535	0.622
50	40	10	1910	167 543 526	0.939	167 543 536	0.939
63	50	10	3100	167 543 527	1.826	167 543 537	1.826

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	L7	M	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		inch
														(inch)
16	50	61	28	8	126	82	72	36	25	35	47	133	6	$\frac{3}{8}$
20	50	61	28	8	136	82	72	36	25	35	47	144	6	$\frac{1}{2}$
25	58	74	32	8	159	106	85	43	25	44	62	170	6	$\frac{3}{4}$
32	68	80	36	8	178	106	98	49	25	44	62	191	6	1
40	84	95	45	9	204	131	118	59	45	57	74	223	8	1 $\frac{1}{4}$
50	97	102	51	9	237	131	135	68	45	57	74	256	8	1 $\frac{1}{2}$
63	124	117	65	9	296	152	176	88	45	66	86	319	8	2



PROGEF Plus 3-Way ball valve type 543 Pro silicone free
Horizontal/T-port
With fusion sockets metric (US version)

Model:

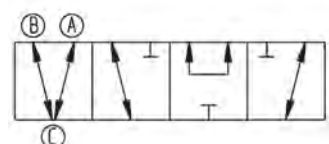
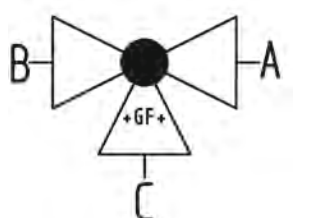
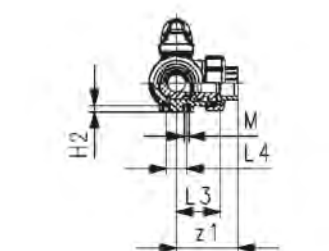
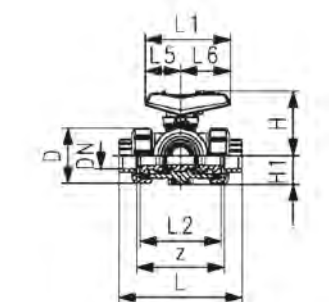
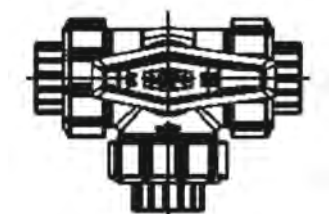
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	140	167 543 681	0.160	167 543 691	0.160
20	15	10	200	167 543 682	0.164	167 543 692	0.164
25	20	10	470	167 543 683	0.236	167 543 693	0.236
32	25	10	793	167 543 684	0.357	167 543 694	0.357
40	32	10	1290	167 543 685	0.609	167 543 695	0.609
50	40	10	1910	167 543 686	0.898	167 543 696	0.898
63	50	10	3100	167 543 687	1.744	167 543 697	1.744

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
															(inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	$\frac{3}{8}$
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	$\frac{1}{2}$
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	$\frac{3}{4}$
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	$1 \frac{1}{4}$
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	$1 \frac{1}{2}$
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2



PROGEF Plus 3-Way ball valve type 543 Pro silicone free **Horizontal/T-port** **With fusion sockets metric**

Model:

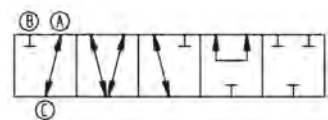
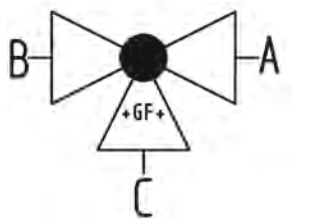
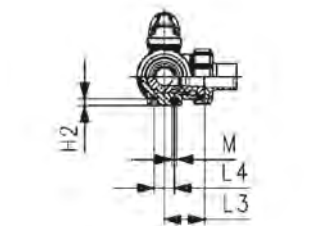
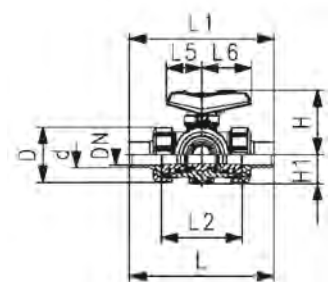
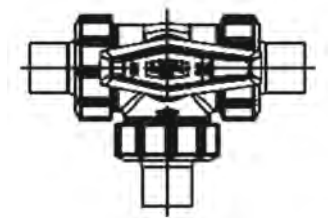
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	140	167 543 501	0.160	167 543 511	0.160
20	15	10	200	167 543 502	0.164	167 543 512	0.164
25	20	10	470	167 543 503	0.236	167 543 513	0.236
32	25	10	793	167 543 504	0.357	167 543 514	0.357
40	32	10	1290	167 543 505	0.609	167 543 515	0.609
50	40	10	1910	167 543 506	0.898	167 543 516	0.898
63	50	10	3100	167 543 507	1.744	167 543 517	1.744

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	inch
															(inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	$\frac{3}{8}$
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	$\frac{1}{2}$
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	$\frac{3}{4}$
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	$1 \frac{1}{4}$
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	$1 \frac{1}{2}$
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2



PROGEF Plus 3-Way ball valve type 543 Pro silicone free Horizontal/L-port With butt fusion spigots IR-Plus SDR11 metric

Model:

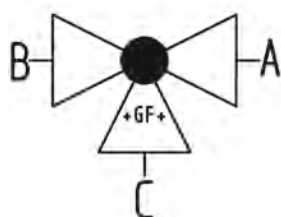
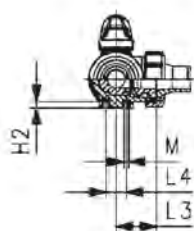
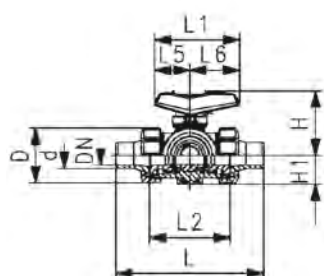
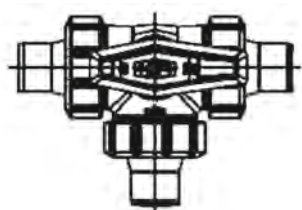
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
20	15	10	75	167 543 242	0.171	167 543 252	0.171
25	20	10	150	167 543 243	0.247	167 543 253	0.247
32	25	10	280	167 543 244	0.377	167 543 254	0.377
40	32	10	480	167 543 245	0.629	167 543 255	0.629
50	40	10	620	167 543 246	0.953	167 543 256	0.953
63	50	10	1230	167 543 247	1.855	167 543 257	1.855

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	e	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
														(inch)
20	50	61	28	8	146	82	72	36	25	35	47	6	1.9	1/2
25	58	74	32	8	163	106	85	43	25	44	62	6	2.3	3/4
32	68	80	36	8	178	106	98	49	25	44	62	6	2.9	1
40	84	95	45	9	204	131	118	59	45	57	74	8	3.7	1 1/4
50	97	102	51	9	237	131	135	68	45	57	74	8	4.6	1 1/2
63	124	117	65	9	296	152	176	88	45	66	86	8	5.8	2



PROGEF Plus 3-Way ball valve type 543 Pro silicone free Horizontal/L-port With socket fusion spigots metric

Model:

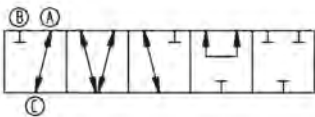
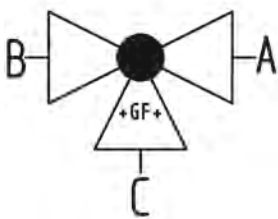
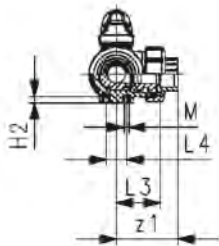
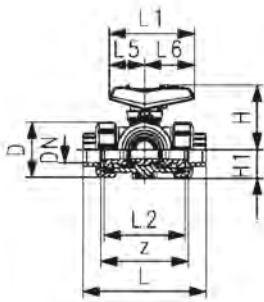
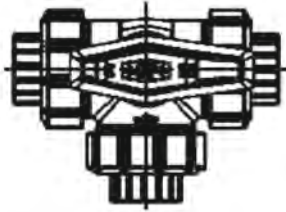
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	50	167 543 421	0.165	167 543 431	0.165
20	15	10	75	167 543 422	0.171	167 543 432	0.171
25	20	10	150	167 543 423	0.247	167 543 433	0.247
32	25	10	280	167 543 424	0.377	167 543 434	0.377
40	32	10	480	167 543 425	0.629	167 543 435	0.629
50	40	10	620	167 543 426	0.953	167 543 436	0.953
63	50	10	1230	167 543 427	1.855	167 543 437	1.855

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	L7	M	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		inch
														(inch)
16	50	61	28	8	126	82	72	36	25	35	47	133	6	$\frac{3}{8}$
20	50	61	28	8	136	82	72	36	25	35	47	144	6	$\frac{1}{2}$
25	58	74	32	8	159	106	85	43	25	44	62	170	6	$\frac{3}{4}$
32	68	80	36	8	178	106	98	49	25	44	62	191	6	1
40	84	95	45	9	204	131	118	59	45	57	74	223	8	$1 \frac{1}{4}$
50	97	102	51	9	237	131	135	68	45	57	74	256	8	$1 \frac{1}{2}$
63	124	117	65	9	296	152	176	88	45	66	86	319	8	2



PROGEF Plus 3-Way ball valve type 543 Pro silicone free Horizontal/L-port With fusion sockets metric (US version)

Model:

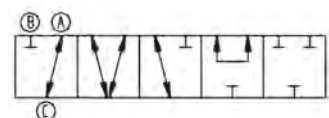
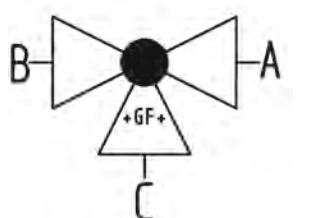
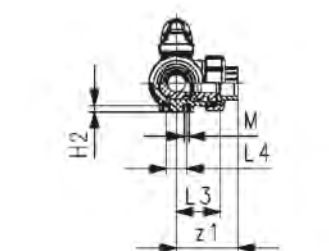
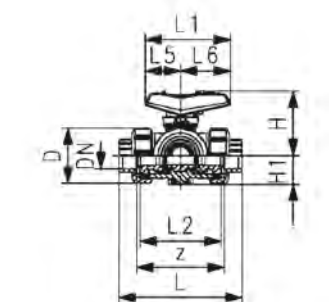
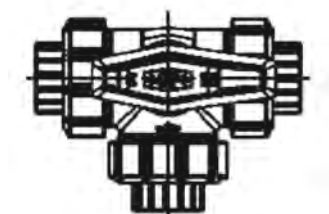
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	50	167 543 661	0.161	167 543 671	0.161
20	15	10	75	167 543 662	0.165	167 543 672	0.165
25	20	10	150	167 543 663	0.237	167 543 673	0.237
32	25	10	280	167 543 664	0.361	167 543 674	0.361
40	32	10	480	167 543 665	0.616	167 543 675	0.616
50	40	10	620	167 543 666	0.912	167 543 676	0.912
63	50	10	1230	167 543 667	1.773	167 543 677	1.773

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
															(inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	$\frac{3}{8}$
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	$\frac{1}{2}$
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	$\frac{3}{4}$
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	1 $\frac{1}{4}$
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	1 $\frac{1}{2}$
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2



PROGEF Plus 3-Way ball valve type 543 Pro silicone free **Horizontal/L-port** **With fusion sockets metric**

Model:

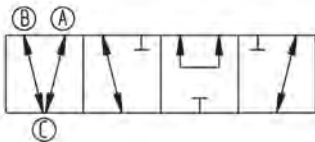
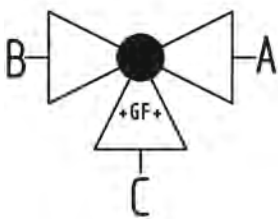
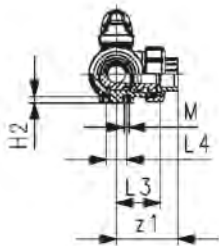
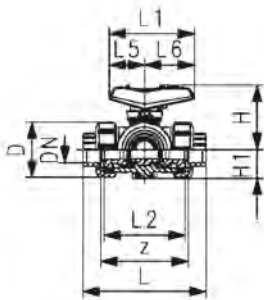
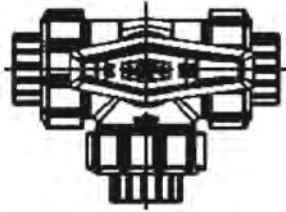
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	50	167 543 401	0.161	167 543 411	0.161
20	15	10	75	167 543 402	0.165	167 543 412	0.172
25	20	10	150	167 543 403	0.237	167 543 413	0.237
32	25	10	280	167 543 404	0.361	167 543 414	0.361
40	32	10	480	167 543 405	0.616	167 543 415	0.616
50	40	10	620	167 543 406	0.912	167 543 416	0.912
63	50	10	1230	167 543 407	1.773	167 543 417	1.773

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	inch
															(inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	$\frac{3}{8}$
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	$\frac{1}{2}$
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	$\frac{3}{4}$
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	$1 \frac{1}{4}$
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	$1 \frac{1}{2}$
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2



PROGEF Plus 3-Way ball valve type 543 Pro oil free

Horizontal/T-port

With fusion sockets metric

Model:

- Material: PP-H/oil free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	$\frac{3}{8}$	10	140	167 543 381	0.160	167 543 391	0.160
20	15	$\frac{1}{2}$	10	200	167 543 382	0.164	167 543 392	0.164
25	20	$\frac{3}{4}$	10	470	167 543 383	0.236	167 543 393	0.236
32	25		10	793	167 543 384	0.357	167 543 394	0.357
40	32		10	1290	167 543 385	0.609	167 543 395	0.609
50	40	1 $\frac{1}{2}$	10	1910	167 543 386	0.898	167 543 396	0.898
63	50	2	10	3100	167 543 387	1.744	167 543 397	1.744

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	inch
															(inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	$\frac{3}{8}$
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	$\frac{1}{2}$
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	$\frac{3}{4}$
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	1 $\frac{1}{4}$
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	1 $\frac{1}{2}$
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2



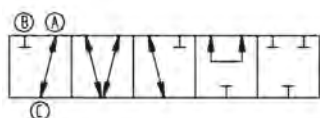
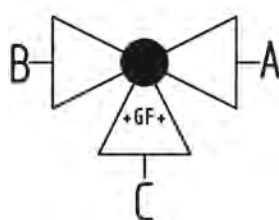
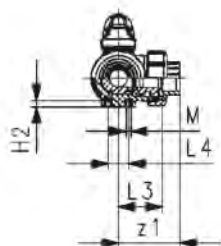
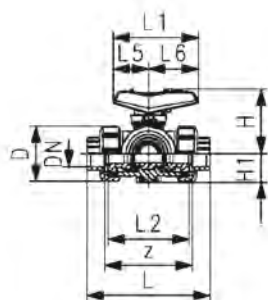
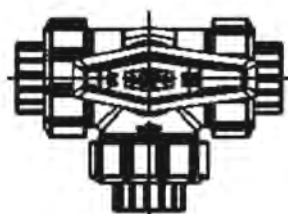
PROGEF Plus 3-Way ball valve type 543 Pro oil free
Horizontal/L-port
With fusion sockets metric

Model:

- Material: PP-H/oil free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	$\frac{3}{8}$	10	50	167 543 181	0.161	167 543 191	0.161
20	15	$\frac{1}{2}$	10	75	167 543 182	0.165	167 543 192	0.165
25	20	$\frac{3}{4}$	10	150	167 543 183	0.237	167 543 193	0.237
32	25		10	280	167 543 184	0.361	167 543 194	0.361
40	32		10	480	167 543 185	0.616	167 543 195	0.616
50	40	1 $\frac{1}{2}$	10	620	167 543 186	0.912	167 543 196	0.912
63	50	2	10	1230	167 543 187	1.773	167 543 197	1.773

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	inch
															(inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	$\frac{3}{8}$
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	$\frac{1}{2}$
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	$\frac{3}{4}$
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	1 $\frac{1}{4}$
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	1 $\frac{1}{2}$
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2

Ball valves type 546 Pro



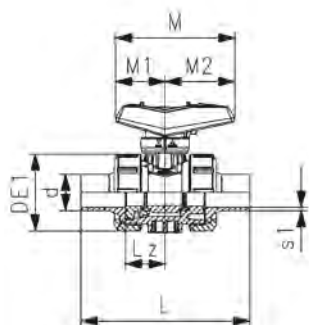
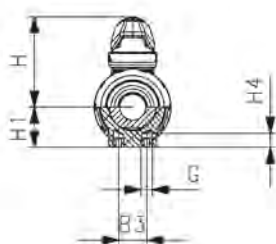
PROGEF Standard Ball Valve type 546 Pro With butt fusion spigots IR-Plus SDR11 ISO

Model:

- Lockable lever as standard (DN10-DN50)
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	Weight (kg)	FKM Code
20	15	½	10	185	11	167 546 482	0.120	800 063 809
25	20	¾	10	350	11	167 546 483	0.183	800 065 160
32	25	1	10	700	11	167 546 484	0.259	800 062 169
40	32	1 ¼	10	1000	11	167 546 485	0.452	800 064 840
50	40	1 ½	10	1600	11	167 546 486	0.620	800 064 173
63	50	2	10	3100	11	167 546 487	1.200	800 063 812
75	65	2 ½	10	5000	11	167 546 488	3.800	
90	80	3	10	7000	11	167 546 489	5.500	
110	100	4	10	11000	11	167 546 490	8.700	

d (mm)	B3 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)	z (mm)
20	25	50	M6	197	27	12	130	28	82	35	47	1.9	66
25	25	58	M6	201	30	12	143	33	106	44	62	2.3	77
32	25	68	M8	207	36	12	150	36	106	44	62	3.0	83
40	45	84	M8	213	44	15	171	43	131	57	74	3.7	99
50	45	97	M8	219	51	15	191	45	131	57	74	4.6	105
63	45	124	M8	234	64	15	220	51	152	66	86	5.8	117
75	70	166	M8	234	85	15	266	68	270	64	206	8.2	167
90	70	200	M8	234	105	15	264	71	270	64	206	10.0	180
110	120	238	M12	234	123	22	301	82	320	64	206	12.0	215



PROGEF Standard Ball Valve type 546 Pro

Oil-free

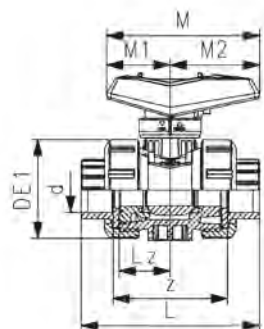
With fusion sockets PP-H ISO

Model:

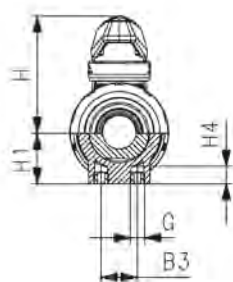
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	185	167 546 902	0.119	167 546 912	0.115
25	20	¾	10	350	167 546 903	0.183	167 546 913	0.184
32	25	1	10	700	167 546 904	0.258	167 546 914	0.260
40	32	1 ¼	10	1000	167 546 905	0.440	167 546 915	0.440
50	40	1 ½	10	1600	167 546 906	0.610	167 546 916	0.620
63	50	2	10	3100	167 546 907	1.113	167 546 917	1.145
75	65	2 ½	10	5000	167 546 908	3.700	167 546 918	3.700
90	80	3	10	7000	167 546 909	5.500	167 546 919	5.500
110	100	4	10	11000	167 546 910	8.700	167 546 920	8.700



d	B3	DE1	G	H	H1	H4	L	Lz	M	M1	M2	z
(mm)	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	25	50	M6	197	27	12	95	28	82	35	47	66
25	25	58	M6	201	30	12	109	33	106	44	62	77
32	25	68	M8	207	36	12	119	36	106	44	62	83
40	45	84	M8	213	44	15	135	43	131	57	74	99
50	45	97	M8	219	51	15	147	45	131	57	74	105
63	45	124	M8	234	64	15	168	51	152	66	86	117
75	70	166	M8	234	85	15	233	68	270	64	206	167
90	70	200	M8	234	105	15	254	71	270	64	206	180
110	120	238	M12	234	123	22	301	82	320	64	206	215



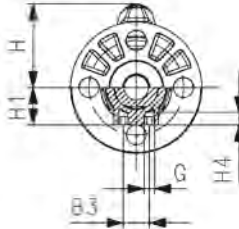
PROGEF Standard Ball Valve type 546 Pro
Silicone free
With backing flanges PP-St ISO with PP-H

Model:

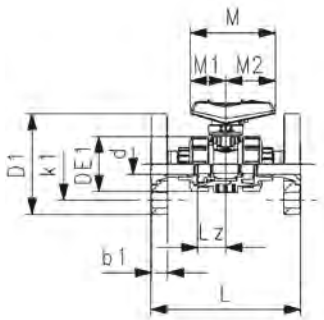
- Lockable lever as standard
- Ball seat PVDF
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
75	65	2 1/2	10	5000	167 546 828	4.300	167 546 838	4.300
90	80	3	10	7000	167 546 829	6.400	167 546 839	6.400
110	100	4	10	11000	167 546 830	10.000	167 546 840	10.000



d	b1	B3	D1	DE1	G	H	H1	H4	k1	L	Lz	M	M1	M2	z
(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
75	18	70	166	166	M8	234	85	15	145	290	68	270	64	206	167
90	20	70	200	200	M8	234	105	15	160	310	71	270	64	206	180
110	20	120	238	238	M12	234	123	22	180	350	82	320	64	206	215



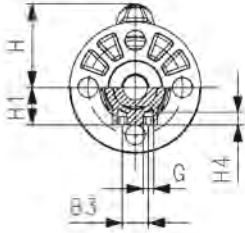
PROGEF Standard Ball Valve type 546 Pro
Silicone free
With backing flanges PP-St ANSI with PP-H

Model:

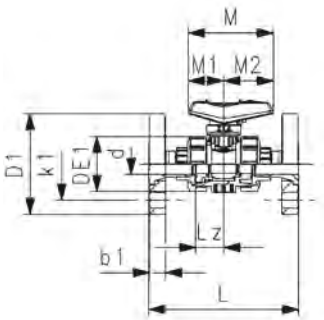
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 1/2	10	5000	167 546 888	4.300	167 546 898	4.300
90	80	3	10	7000	167 546 889	6.400	167 546 899	6.400
110	100	4	10	11000	167 546 890	10.000	167 546 900	10.000



d (mm)	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)
75	18	70	166	166	M8	234	85	15	140	290	68	270	64	206
90	20	70	200	200	M8	234	105	15	152	310	71	270	64	206
110	20	120	238	238	M12	234	123	22	190	350	82	320	64	206



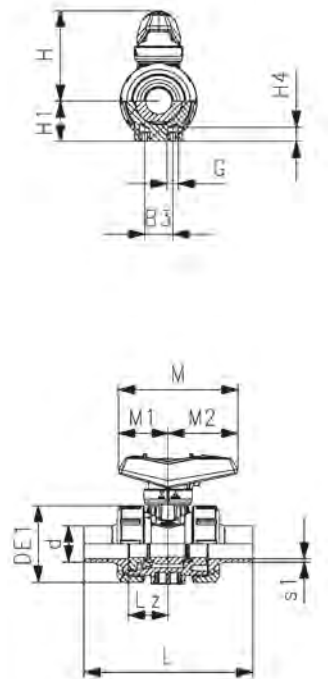
PROGEF Standard Ball Valve type 546 Pro
Silicone free
With butt fusion spigots IR-Plus SDR11 ISO

Model:

- Lockable lever as standard
- Ball seat PVDF
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FKM Code	Weight (kg)
20	15	½	10	185	167 546 662	167 546 672	0.120
25	20	¾	10	350	167 546 663	167 546 673	0.180
32	25	1	10	700	167 546 664	167 546 674	0.255
40	32	1 ¼	10	1000	167 546 665	167 546 675	0.440
50	40	1 ½	10	1600	167 546 666	167 546 676	0.620
63	50	2	10	3100	167 546 667	167 546 677	1.200
75	65	2 ½	10	5000	167 546 668	167 546 678	2.612
90	80	3	10	7000	167 546 669	167 546 679	5.500
110	100	4	10	11000	167 546 670	167 546 680	8.700

d (mm)	B3 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)
20	25	50	M6	197	27	12	130	28	82	35	47	1.9
25	25	58	M6	201	30	12	143	33	106	44	62	2.3
32	25	68	M8	207	36	12	150	36	106	44	62	3.0
40	45	84	M8	213	44	15	171	43	131	57	74	3.7
50	45	97	M8	219	51	15	191	45	131	57	74	4.6
63	45	124	M8	234	64	15	220	51	152	66	86	5.8
75	70	166	M8	234	85	15	266	68	270	64	206	8.2
90	70	200	M8	234	105	15	264	71	270	64	206	10.0
110	120	238	M12	234	123	22	301	82	320	64	206	12.0



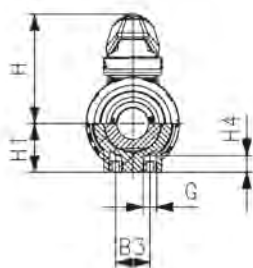
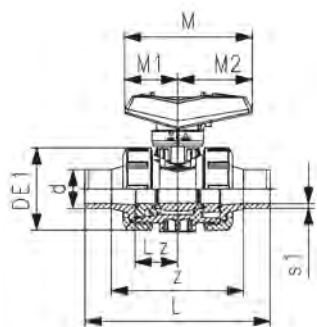
PROGEF Standard Ball Valve type 546 Pro
Silicone free
With sockets fusion spigots PP-H ISO

Model:

- Lockable lever as standard
- Ball seat PVDF
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16	10	$\frac{3}{8}$	10	70	167 546 621	0.120	167 546 631	0.120
20	15	$\frac{1}{2}$	10	185	167 546 622	0.120	167 546 632	0.120
25	20	$\frac{3}{4}$	10	350	167 546 623	0.180	167 546 633	0.180
32	25	1	10	700	167 546 624	0.260	167 546 634	0.260
40	32	1 $\frac{1}{4}$	10	1000	167 546 625	0.450	167 546 635	0.450
50	40	1 $\frac{1}{2}$	10	1600	167 546 626	0.640	167 546 636	0.640
63	50	2	10	3100	167 546 627	1.210	167 546 637	1.210
75	65	2 $\frac{1}{2}$	10	5000	167 546 628	3.800	167 546 638	3.800
90	80	3	10	7000	167 546 629	5.600	167 546 639	5.600
110	100	4	10	11000	167 546 630	8.800	167 546 640	8.800

d	B3	DE1	G	H	H1	H4	L	Lz	M	M1	M2	s1	z
(mm)	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	25	50	M6	197	27	12	110	28	82	35	47	3.0	84
20	25	50	M6	197	27	12	120	28	82	35	47	3.0	92
25	25	58	M6	201	30	12	139	33	106	44	62	3.0	107
32	25	68	M8	207	36	12	150	36	106	44	62	4.0	114
40	45	84	M8	213	44	15	170	43	131	57	74	4.5	130
50	45	97	M8	219	51	15	190	45	131	57	74	5.5	144
63	45	124	M8	234	64	15	220	51	152	66	86	7.0	166
75	70	166	M8	234	85	15	280	68	270	64	206	8.5	190
90	70	200	M8	234	105	15	196	71	270	64	206	10.0	92
110	120	238	M12	234	123	22	336	82	320	64	206	12.0	208



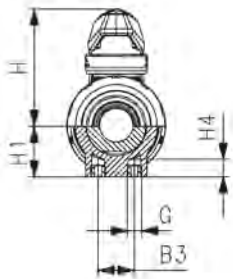
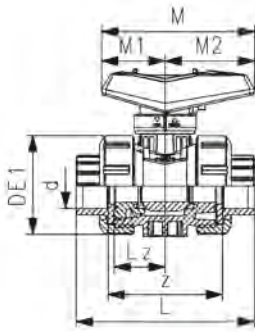
PROGEF Standard Ball Valve type 546 Pro
Silicone free
With fusion sockets PP-H ISO

Model:

- Lockable lever as standard
- Ball seat PVDF
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	3/8	10	70	167 546 601	0.115	167 546 611	0.115
20	15	1/2	10	185	167 546 602	0.121	167 546 612	0.115
25	20	3/4	10	350	167 546 603	0.180	167 546 613	0.180
32	25	1	10	700	167 546 604	0.255	167 546 614	0.255
40	32	1 1/4	10	1000	167 546 605	0.440	167 546 615	0.440
50	40	1 1/2	10	1600	167 546 606	0.610	167 546 616	0.610
63	50	2	10	3100	167 546 607	1.145	167 546 617	1.145
75	65	2 1/2	10	5000	167 546 608	3.700	167 546 618	3.700
90	80	3	10	7000	167 546 609	5.500	167 546 619	5.500
110	100	4	10	11000	167 546 610	8.700	167 546 620	8.700

d (mm)	B3 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	25	50	M6	197	27	12	93	28	82	35	47	67
20	25	50	M6	197	27	12	95	28	82	35	47	66
25	25	58	M6	201	30	12	109	33	106	44	62	77
32	25	68	M8	207	36	12	119	36	106	44	62	83
40	45	84	M8	213	44	15	135	43	131	57	74	99
50	45	97	M8	219	51	15	147	45	131	57	74	105
63	45	124	M8	234	64	15	168	51	152	66	86	117
75	70	166	M8	234	85	15	233	68	270	64	206	167
90	70	200	M8	234	105	15	254	71	270	64	206	180
110	120	238	M12	234	123	22	301	82	320	64	206	215



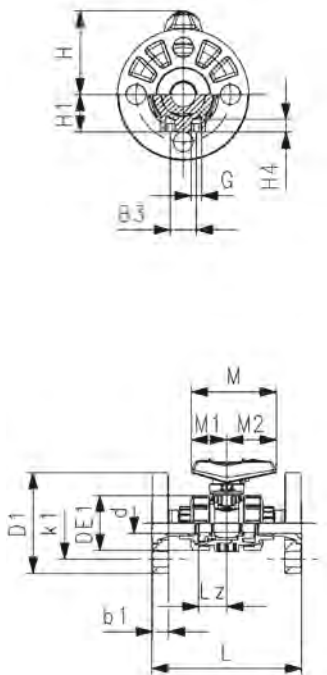
PROGEF Standard Ball Valve type 546 Pro
Oil-free
With backing flanges PP-GF JIS with PP-H

Model:

- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d	DN	Size	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	185	167 546 922	0.314	167 546 932	0.314
25	20	¾	10	350	167 546 923	0.432	167 546 933	0.432
32	25	1	10	700	167 546 924	0.676	167 546 934	0.676
40	32	1 ¼	10	1000	167 546 925	0.970	167 546 935	0.970
50	40	1 ½	10	1600	167 546 926	1.216	167 546 936	1.216
63	50	2	10	3100	167 546 927	1.966	167 546 937	1.966
75	65	2 ½	10	5000	167 546 928	4.300	167 546 938	4.300
90	80	3	10	7000	167 546 929	6.400	167 546 939	6.400
110	100	4	10	11000	167 546 930	10.000	167 546 940	10.000

d	b1	B3	D1	DE1	G	H	H1	H4	k1	L	Lz	M	M1	M2
(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	12	25	95	50	M6	197	27	12	70	130	28	82	35	47
25	12	25	105	58	M6	201	30	12	75	150	33	106	44	62
32	14	25	115	68	M8	207	36	12	90	160	36	106	44	62
40	16	45	140	84	M8	213	44	15	100	180	43	131	57	74
50	16	45	150	97	M8	219	51	15	105	200	45	131	57	74
63	18	45	165	124	M8	234	64	15	120	230	51	152	66	86
75	18	70	166	166	M8	234	85	15	140	290	68	270	64	206
90	20	70	200	200	M8	234	105	15	150	310	71	270	64	206
110	20	120	238	238	M12	234	123	22	175	350	82	320	64	206

Butterfly valves type 567



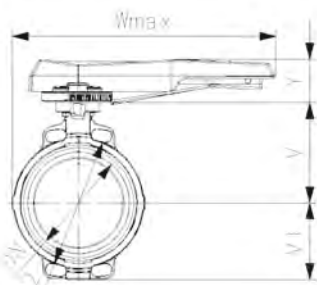
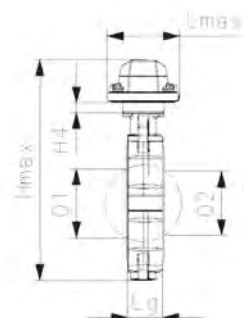
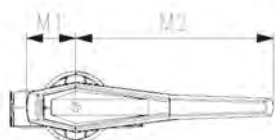
PROGEF Plus Wafer-style intermediate installation butterfly valve type 567 silicone free
With hand lever
Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H / silicone free cleaned
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	740	167 567 402	1.277	167 567 422	0.969
75	2 ½	65	10	1500	167 567 403	1.056	167 567 423	1.270
90	3	80	10	2400	167 567 404	1.184	167 567 424	1.191
110	4	100	10	3800	167 567 405	1.737	167 567 425	1.751
140	5	125	10	8600	167 567 406	2.181	167 567 426	2.199
160	6	150	10	11400	167 567 407	2.966	167 567 427	2.989
225	8	200	10	19900	167 567 408	4.678	167 567 428	4.706
280	10	250	8	34000	167 567 409	11.841	167 567 429	11.841
315	12	300	8	50000	167 567 410	14.816	167 567 430	14.816

d	Hmax	Lmax	Wmax	H4	V1	Lg	d2	Q1	Q2	k	Y	M1	M2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	278.9	115.2	269.0	23	78.8	45	104	40		125	66.8	64.7	205.5
75	291.8	115.2	271.8	23	85.1	46	115	54	35	145	66.8	64.7	205.5
90	303.6	115.2	273.9	23	91.2	49	131	67	50	160	66.8	64.7	205.5
110	342.2	115.2	336.0	23	105.7	56	161	88	74	180	70.1	64.9	255.5
140	368.9	115.2	349.0	23	118.8	64	187	113	97	210	70.1	64.9	255.5
160	390.0	115.2	363.0	23	130.9	72	215	139	123	240	70.1	64.9	255.5
225	455.1	149.4	543.0	23	158.3	73	267	178	169	295	86.3	103.6	409.5
280	555.0	149.4	574.0	23	206.1	113	329	210	207	350	86.3	103.6	409.5
315	599.4	149.4	599.7	23	228.8	113	379	256	253	400	86.3	103.6	409.5



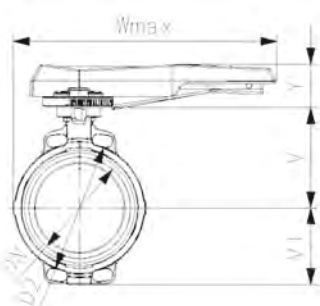
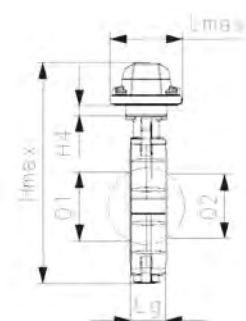
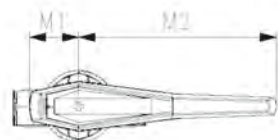
PROGEF Plus Wafer-style intermediate installation butterfly valve type 567 oil free
With hand lever
Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H/oil free cleaned
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

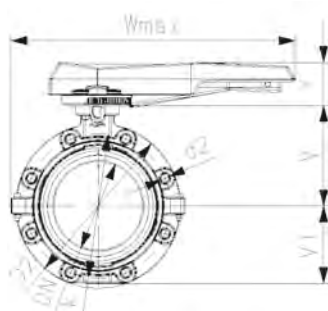
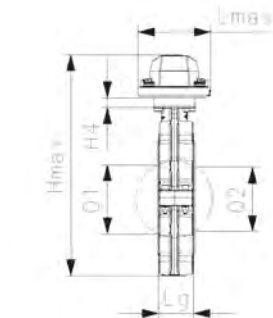
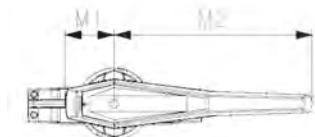
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	FKM
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code
				(l/min)			
63	2	50	10	740	167 567 502	0.965	167 567 522
75	2 ½	65	10	1500	167 567 503	1.056	167 567 523
90	3	80	10	2400	167 567 504	1.184	167 567 524
110	4	100	10	3800	167 567 505	1.737	167 567 525
140	5	125	10	8600	167 567 506	2.181	167 567 526
160	6	150	10	11400	167 567 507	2.966	167 567 527
225	8	200	10	19900	167 567 508	4.678	167 567 528

d	Hmax	Lmax	Wmax	H4	V1	Lg	d2	Q1	Q2	k	Y	M1	M2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	278.9	115.2	269.0	23	78.8	45	104	40		125	66.8	64.7	205.5
75	291.8	115.2	271.8	23	85.1	46	115	54	35	145	66.8	64.7	205.5
90	303.6	115.2	273.9	23	91.2	49	131	67	50	160	66.8	64.7	205.5
110	342.2	115.2	336.0	23	105.7	56	161	88	74	180	70.1	64.9	255.5
140	368.9	115.2	349.0	23	118.8	64	187	113	97	210	70.1	64.9	255.5
160	390.0	115.2	363.0	23	130.9	72	215	139	123	240	70.1	64.9	255.5
225	455.1	149.4	543.0	23	158.3	73	267	178	169	295	86.3	103.6	409.5

Butterfly valves type 578



PROGEF Plus Lug-style end installation butterfly valve type 578 silicone free With hand lever Flange standard metric

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Silicone free/paint-compatible
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	167 578 402	1.800	167 578 422	1.800
75	2 ½	65	10	1500	167 578 403	1.895	167 578 423	1.895
90	3	80	10	2400	167 578 404	2.251	167 578 424	2.251
110	4	100	10	3800	167 578 405	3.146	167 578 425	3.146
140	5	125	10	8600	167 578 406	4.660	167 578 426	4.660
160	6	150	10	11400	167 578 407	6.430	167 578 427	6.430
225	8	200	10	19900	167 578 408	8.625	167 578 428	8.625
280	10	250	6	34000	167 578 409	19.528	167 578 429	19.528
315	12	300	6	50000	167 578 410	26.106	167 578 430	26.106

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2 (mm)	k (mm)	M1 (mm)
63	278.9	115.2	287.8	90	133.3	23	78.8	44.7	160	40		M16	125	63.7
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	M16	145	63.7
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	M16	160	63.7
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	M16	180	63.7
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	M16	210	63.7
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	M20	240	63.7
225	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	M20	295	101.7
280	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	M20	350	101.7
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	M20	400	101.7

d (mm)	M2 (mm)
63	205.3
75	205.3
90	205.3
110	255.2
140	255.2
160	255.2
225	408.1
280	408.1
315	408.1



PROGEF Plus Lug-style end installation butterfly valve type 578 silicone free
With hand lever
Flange standard ANSI/ASME

Model:

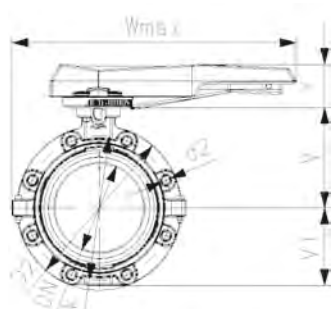
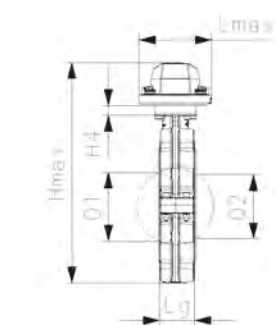
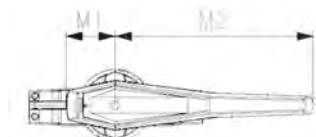
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Silicone free/paint-compatible
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d	Size	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	740	167 578 502	1.800	167 578 522	1.800
75	2 1/2	65	10	1500	167 578 503	1.895	167 578 523	1.895
90	3	80	10	2400	167 578 504	2.251	167 578 524	2.251
110	4	100	10	3800	167 578 505	3.146	167 578 525	3.146
140	5	125	10	8600	167 578 506	4.660	167 578 526	4.660
160	6	150	10	11400	167 578 507	6.430	167 578 527	6.430
225	8	200	10	19900	167 578 508	8.625	167 578 528	8.625
280	10	250	6	34000	167 578 509	19.528	167 578 529	19.528
315	12	300	6	50000	167 578 510	26.106	167 578 530	26.106

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	d2	k
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
63	278.9	115.2	287.8	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	241.3
225	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	298.5
280	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	362.0
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	431.8

d	M1	M2
(mm)	(mm)	(mm)
63	63.7	205.3
75	63.7	205.3
90	63.7	205.3
110	63.7	255.2
140	63.7	255.2
160	63.7	255.2
225	101.7	408.1
280	101.7	408.1
315	101.7	408.1

Diaphragm valves type 317



PROGEF Plus silicone free Diaphragm valve type 317 With flanges metric

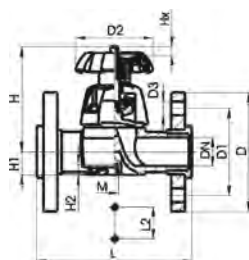
Model:

- Material: PP-H / silicone free cleaned
- DN 80-150 with fixed flange
- Overall length according to EN 558
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- Double bagged
- Jointing surfaces: serrated or flat

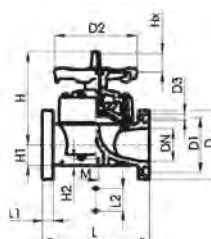
* DN80 and DN150 fixed flanges metric and inch ANSI B16.5

	d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE with EPDM supporting diaphragm Code	Weight (kg)
	75	65	2 1/2	10	992	167 317 218	4.672	167 317 233	5.480
*	90	80	3	10	1700	167 317 129	8.026	167 317 144	8.061
	110	100	4	6	2700	167 317 130	11.315	167 317 145	11.360
*	160	150	6	6	6033	167 317 132	25.000	167 317 147	25.000

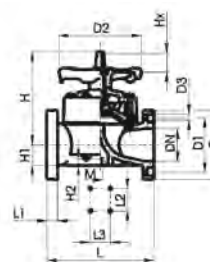
	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M	Lift = Hx (mm)	AL
	185	145	152	18	210	46	15	290		70		M8	35	4
*	200	160	270	18	265	57	23	310	35	120		M12	40	8
	225	180	270	18	304	69	23	350	38	120		M12	50	8
*	282	241	400	23	437	108	23	480	29	100	200	M12	70	8



DN 15-65

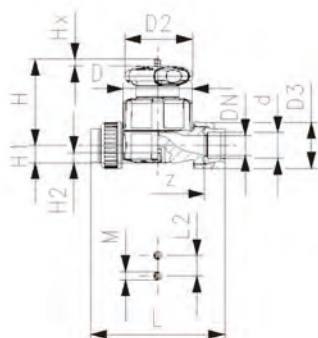


DN 80-100



DN 150

Diaphragm valves type 514



PROGEF Plus silicone free Diaphragm valve type 514 With fusion sockets metric

Model:

- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

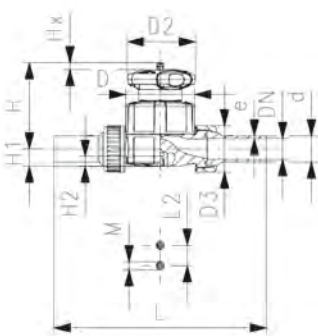
Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	167 514 022	167 514 072	0.371
25	20	¾	10	271	167 514 023	167 514 073	0.500
32	25	1	10	481	167 514 024	167 514 074	1.101
40	32	1 ¼	10	759	167 514 025	167 514 075	1.297
50	40	1 ½	10	1263	167 514 026	167 514 076	1.376
63	50	2	10	1728	167 514 027	167 514 077	3.058

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	43	73	14	12	128	25	M6	100	7	½
25	80	65	51	81	18	12	150	25	M6	118	10	¾
32	88	87	58	107	22	12	162	25	M6	126	13	1
40	101	87	72	115	26	15	184	45	M8	144	15	1 ¼
50	117	135	83	148	32	15	210	45	M8	164	19	1 ½
63	144	135	100	166	39	15	248	45	M8	194	25	2



PROGEF Plus silicone free Diaphragm valve type 514 With butt fusion spigots SDR11 metric

Model:

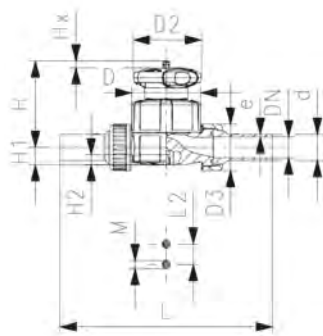
- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

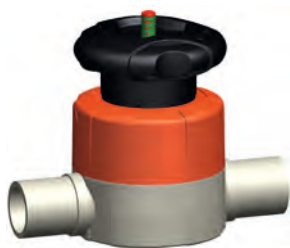
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	167 514 122	167 514 172	0.274
25	20	¾	10	271	167 514 123	167 514 173	0.404
32	25	1	10	481	167 514 124	167 514 174	0.652
40	32	1 ¼	10	759	167 514 125	167 514 175	0.853
50	40	1 ½	10	1263	167 514 126	167 514 176	1.453
63	50	2	10	1728	167 514 127	167 514 177	3.072



d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	43	73	14	12	196	25	M6	1.9	7	½
25	80	65	51	81	18	12	221	25	M6	2.3	10	¾
32	88	87	58	107	22	12	234	25	M6	2.9	13	1
40	101	87	72	115	26	15	260	45	M8	3.7	15	1 ¼
50	117	135	83	148	32	15	284	45	M8	4.6	19	1 ½
63	144	135	100	166	39	15	321	45	M8	5.8	25	2

Diaphragm valves type 515



PROGEF Plus silicone free Diaphragm valve type 515 With butt fusion spigots SDR11 metric

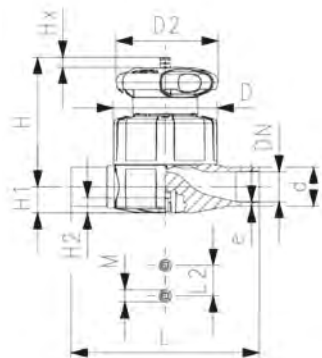
Model:

- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

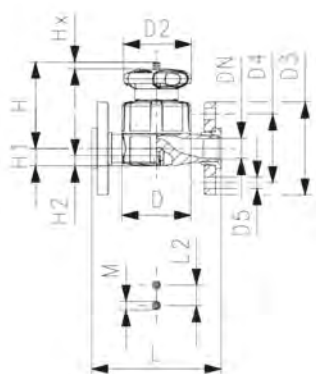
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	167 515 122	167 515 172	0.307
25	20	¾	10	271	167 515 123	167 515 173	0.392
32	25	1	10	481	167 515 124	167 515 174	0.968
40	32	1 ¼	10	759	167 515 125	167 515 175	0.655
50	40	1 ½	10	1263	167 515 126	167 515 176	2.082
63	50	2	10	1728	167 515 127	167 515 177	2.629

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	73	14	12	124	25	M6	1.9	7	½
25	80	65	81	18	12	144	25	M6	2.3	10	¾
32	88	87	107	22	12	155	25	M6	2.9	13	1
40	101	87	115	26	15	176	45	M8	3.7	15	1 ¼
50	117	135	148	32	15	193	45	M8	4.6	19	1 ½
63	144	135	166	39	15	223	45	M8	5.8	25	2

Diaphragm valves type 517



PROGEF Plus silicone free Diaphragm valve type 517 With backing flanges PP-V metric/BS

Model:

- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	167 517 122	167 517 172	0.412
25	20	¾	10	271	167 517 123	167 517 173	0.640
32	25	1	10	481	167 517 124	167 517 174	1.316
40	32	1 ¼	10	759	167 517 125	167 517 175	1.660
50	40	1 ½	10	1263	167 517 126	167 517 176	2.601
63	50	2	10	1728	167 517 127	167 517 177	3.572

d (mm)	D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	65	65	95	65	14	73	14	12	130	25	M6	7	½
25	80	65	105	75	14	81	18	12	150	25	M6	10	¾
32	88	87	115	85	14	107	22	12	160	25	M6	13	1
40	101	87	140	100	18	115	26	15	180	45	M8	15	1 ¼
50	117	135	150	110	18	148	32	15	200	45	M8	19	1 ½
63	144	135	165	125	18	166	39	15	230	45	M8	25	2



PROGEF Plus oil free
Diaphragm valve type 517
With fixed flanges PP-H JIS

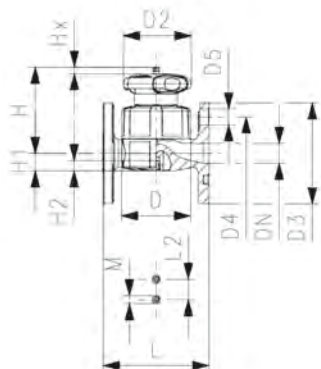
Model:

- Material: PP-H/oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

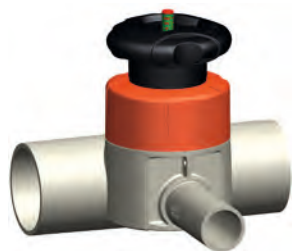
* O-Ring material: FKM



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
½	15	10	125	167 517 922	0.426	167 517 972	0.434
¾	20	10	271	167 517 923	0.504	167 517 973	0.514
1	25	10	481	167 517 924	1.149	167 517 974	1.168
1 ¼	32	10	759	167 517 925	1.443	167 517 975	1.462
1 ½	40	10	1263	167 517 926	2.420	167 517 976	2.449
2	50	10	1728	167 517 927	3.055	167 517 977	3.082

Size (inch)	D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
½	65	65	95	70	15	73	14	12	110	25	M6	7
¾	80	65	100	75	15	81	18	12	120	25	M6	10
1	88	87	125	90	19	107	22	12	130	25	M6	13
1 ¼	101	87	135	100	19	115	26	15	180	45	M8	15
1 ½	117	135	140	105	19	148	32	15	180	45	M8	19
2	144	135	155	120	19	166	39	15	210	45	M8	25

Diaphragm valves type 519



PROGEF Plus silicone free Diaphragm valve type 519 With butt fusion spigots SDR11 metric

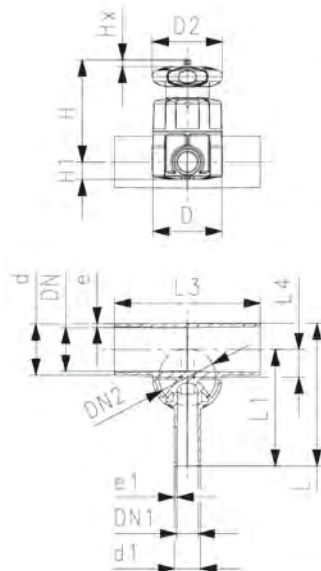
Model:

- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Smallest possible dead space

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

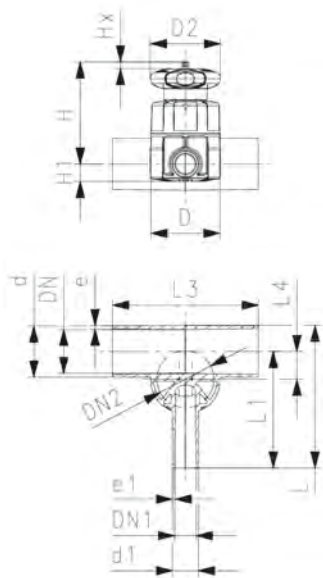
* O-Ring material: FKM



d (mm)	d1 (mm)	DN (mm)	DN1 (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	Valve Size d (mm)	SDR	PN (bar)	EPDM Code	Weight (kg)
20	20	15	15	½	57	20	11	10	167 519 201	0.312
25	20	20	15	¾	89	25	11	10	167 519 203	0.387
25	25	20	20	¾	118	25	11	10	167 519 204	0.388
32	20	25	15	1	80	25	11	10	167 519 207	0.414
32	25	25	20	1	105	25	11	10	167 519 208	0.416
32	32	25	25	1	231	32	11	10	167 519 209	0.490
40	20	32	15	1 ½	85	32	11	10	167 519 212	0.988
40	40	40	32	1 ½	187	40	11	10	167 519 215	1.014
50	20	40	15	1 ½	86	25	11	10	167 519 218	0.474
50	25	40	20	1 ½	160	32	11	10	167 519 219	0.705
50	32	40	25	1 ½	206	32	11	10	167 519 220	1.036
63	20	50	15	2	84	25	11	10	167 519 225	0.513
63	25	50	20	2	150	32	11	10	167 519 226	1.077
63	32	50	25	2	184	32	11	10	167 519 227	1.080

d (mm)	d1 (mm)	PTFE/ EPDM* Code	Weight (kg)
20	20	167 519 701	0.322
25	20	167 519 703	0.398
25	25	167 519 704	0.399
32	20	167 519 707	0.424
32	25	167 519 708	0.427
32	32	167 519 709	0.980
40	20	167 519 712	0.675
40	40	167 519 715	0.575
50	20	167 519 718	0.485
50	25	167 519 719	0.610
50	32	167 519 720	1.056
63	20	167 519 725	0.525
63	25	167 519 726	1.097
63	32	167 519 727	1.100

d (mm)	d1 (mm)	D (mm)	D2 (mm)	H (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	e1 (mm)
20	20	65	65	75	117	96	162	12	1.9	7	15	1.9
25	20	80	65	80	133	108	162	16	2.3	10	20	1.9
25	25	80	65	80	133	108	162	16	2.3	10	20	2.3
32	20	80	65	84	142	120	162	19	2.9	10	20	1.9
32	25	80	65	84	142	120	162	19	2.9	10	20	2.3
32	32	88	87	107	145	120	160	19	2.9	13	25	2.9
40	20	88	87	115	149	128	180	23	3.7	13	25	1.9
40	40	88	87	115	174	153	180	23	3.7	13	25	3.7
50	20	80	65	97	160	134	180	27	4.6	10	20	1.9



d	d1	D	D2	H	L	L1	L3	L4	e	Lift = Hx	DN2	e1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
50	25	88	87	120	160	134	180	28	4.6	13	25	2.3
50	32	88	87	120	160	134	180	28	4.6	13	25	2.9
63	20	80	65	104	177	144	180	33	5.8	10	20	1.9
63	25	88	87	127	177	144	180	35	5.8	13	25	2.3
63	32	88	87	127	177	144	180	35	5.8	13	25	2.9

Diaphragm valves pneumatic DIASTAR Six



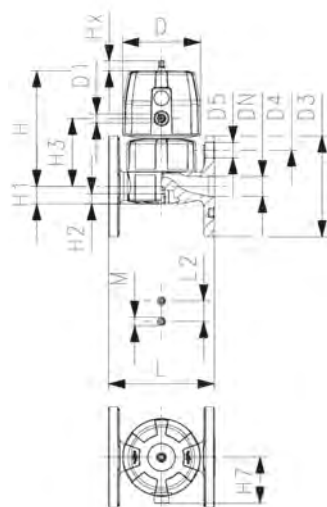
PROGEF Plus oil free
Diaphragm valve DIASTAR Six
FC (Fail safe to close)
With fixed flanges PP-H JIS

Model:

- Material: PP-H/oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)
3/4	20	6	271	167 617 923	1.023
1	25	6	481	167 617 924	1.263
1 1/4	32	6	759	167 617 925	2.082
1 1/2	40	6	960	167 617 926	2.570
2	50	6	1181	167 617 927	3.432

Size (inch)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
3/4	96	3/8	100	75	15	132	18	12	73	57	120	25	M6	10
1	96	3/8	125	90	19	143	22	12	84	69	130	25	M6	13
1 1/4	120	3/8	135	100	19	173	26	15	99	69	180	45	M8	14
1 1/2	120	3/8	140	105	19	193	32	15	119	69	180	45	M8	16
2	120	3/8	155	120	19	205	39	15	132	69	210	45	M8	16

Diaphragm valves pneumatic DIASTAR Ten



PROGEF Plus oil free
Diaphragm valve DIASTAR Ten
DA (Double acting)
With fixed flanges PP-H JIS

Model:

- Material: PP-H/oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

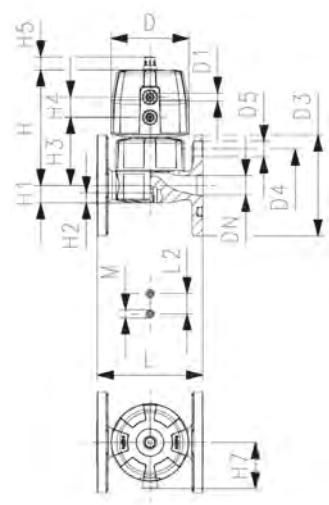
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM



Size (inch)	DN (mm)	PN* (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
½	15	10/10*	125	167 657 922	0.554	167 657 972	0.562
¾	20	10/10*	271	167 657 923	0.888	167 657 973	0.898
1	25	10/10*	481	167 657 924	1.125	167 657 974	1.144
1 ¼	32	10/10*	759	167 657 925	1.812	167 657 975	1.831
1 ½	40	10/10*	1263	167 657 926	2.868	167 657 976	2.897
2	50	10/10*	1728	167 657 927	3.513	167 657 977	3.540

Size (inch)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
½	68	⅝	95	70	15	101	14	12	60	24	16	57	110	25	M6
¾	96	⅝	100	75	15	132	18	12	73	25	16	57	120	25	M6
1	96	⅝	125	90	19	143	22	12	84	25	16	69	130	25	M6
1 ¼	120	⅝	135	100	19	173	26	15	99	26	26	88	180	45	M8
1 ½	150	⅝	140	105	19	214	32	15	119	36	26	103	180	45	M8
2	150	⅝	155	120	19	226	39	15	132	36	26	103	210	45	M8

Size
(inch)

Lift =
Hx
(mm)

½	7
¾	10
1	13
1 ¼	15
1 ½	19
2	23



PROGEF Plus oil free
Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With fixed flanges PP-H JIS

Model:

- Material: PP-H/oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

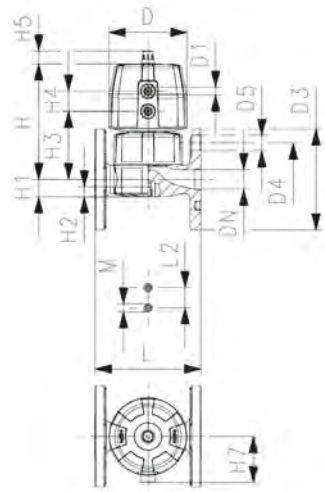
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

* O-Ring material: FKM



Size (inch)	DN (mm)	PN* (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
½	15	10/10*	125	167 647 922	0.570	167 647 972	0.578
¾	20	10/10*	271	167 647 923	0.924	167 647 973	0.934
1	25	10/10*	481	167 647 924	1.155	167 647 974	1.174
1 ¼	32	10/10*	759	167 647 925	1.872	167 647 975	1.891
1 ½	40	10/10*	1263	167 647 926	3.618	167 647 976	3.647
2	50	10/10*	1728	167 647 927	4.263	167 647 977	4.290

Size (inch)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
½	68	⅝	95	70	15	101	14	12	60	24	16	57	110	25	M6
¾	96	⅝	100	75	15	132	18	12	73	25	16	57	120	25	M6
1	96	⅝	125	90	19	143	22	12	84	25	16	69	130	25	M6
1 ¼	120	⅝	135	100	19	173	26	15	99	26	26	88	180	45	M8
1 ½	150	¾	140	105	19	214	32	15	119	36	26	103	180	45	M8
2	150	¾	155	120	19	226	39	15	132	36	26	103	210	45	M8

Size (inch)	Lift = Hx (mm)
½	7
¾	10
1	13
1 ¼	15
1 ½	19
2	23

Diaphragm valves pneumatic DIASTAR TenPlus



PROGEF Plus oil free Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close) low pressure
With fixed flanges PP-H JIS

Model:

- Material: PP-H/oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

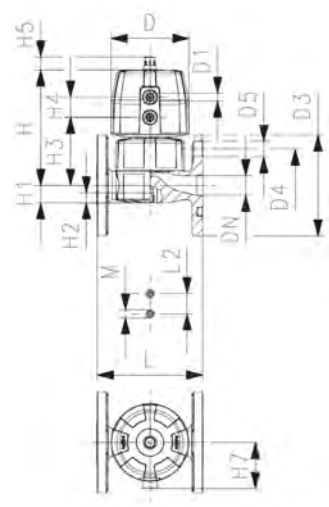
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **both sides**

* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	8*	125	167 687 922	1.020	167 687 972	1.028
25	20	¾	10	8*	271	167 687 923	1.098	167 687 973	1.108
32	25	1	10	8*	481	167 687 924	1.929	167 687 974	1.948
40	32	1 ¼	10	8*	759	167 687 925	3.302	167 687 975	3.321
50	40	1 ½	10	8*	1263	167 687 926	5.116	167 687 976	5.145
63	50	2	10	6*	1728	167 687 927	5.760	167 687 977	5.787

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
96	¾	95	70	15	127	14	12	68	25	16	57	110	25	M6
96	¾	100	75	15	132	18	12	73	25	16	57	120	25	M6
120	½	125	90	19	167	22	12	93	26	26	69	130	25	M6
150	¼	135	100	19	196	26	15	101	36	26	88	180	45	M8
180	¼	140	105	19	239	32	15	124	37	26	103	180	45	M8
180	¼	155	120	19	251	39	15	137	37	26	103	210	45	M8

Lift =
Hx
 (mm)

7
10
13
15
19
23

Cone check valves

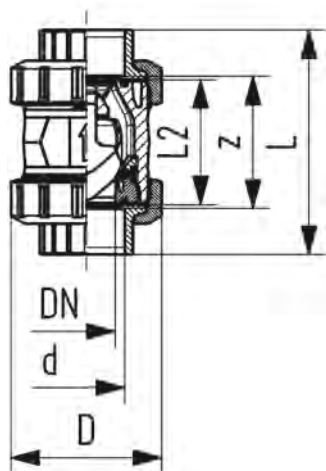
Type 561



PROGEF Plus Check valve type 561 silicone free
Without spring
With fusion sockets metric

Model:

- Material: PP-H / silicone free cleaned
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	190	167 561 201	0.080	167 561 211	0.080
20	15	10	180	167 561 202	0.080	167 561 212	0.080
25	20	10	380	167 561 203	0.170	167 561 213	0.180
32	25	10	460	167 561 204	0.190	167 561 214	0.190
40	32	10	850	167 561 205	0.330	167 561 215	0.340
50	40	10	1080	167 561 206	0.480	167 561 216	0.480
63	50	10	1670	167 561 207	0.880	167 561 217	0.880
75	65	10	2950	167 561 208	2.300	167 561 218	2.310
90	80	10	3600	167 561 209	3.560	167 561 219	3.580
110	100	10	4150	167 561 210	5.900	167 561 220	5.930

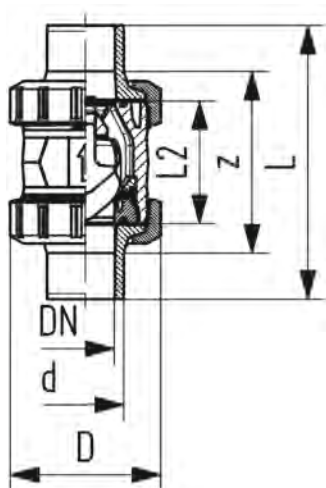
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	93	56	67	$\frac{3}{8}$
20	50	95	56	66	$\frac{1}{2}$
25	58	109	65	77	$\frac{3}{4}$
32	68	119	71	83	1
40	84	135	85	99	1 $\frac{1}{4}$
50	97	147	89	105	1 $\frac{1}{2}$
63	124	168	101	117	2
75	166	233	136	167	2 $\frac{1}{2}$
90	200	254	141	180	3
110	238	301	164	215	4



PROGEF Plus Check valve type 561 silicone free
Without spring
With socket fusion spigots metric

Model:

- Material: PP-H / silicone free cleaned
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	190	167 561 221	0.080	167 561 231	0.080
20	15	10	180	167 561 222	0.090	167 561 232	0.090
25	20	10	380	167 561 223	0.170	167 561 233	0.190
32	25	10	460	167 561 224	0.200	167 561 234	0.200
40	32	10	850	167 561 225	0.340	167 561 235	0.350
50	40	10	1080	167 561 226	0.510	167 561 236	0.510
63	50	10	1670	167 561 227	0.940	167 561 237	0.950
75	65	10	2950	167 561 228	2.360	167 561 238	2.370
90	80	10	3600	167 561 229	3.730	167 561 239	3.750
110	100	10	4150	167 561 230	5.960	167 561 240	5.980

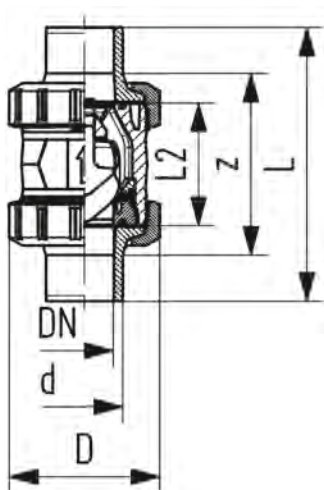
d (mm)	D (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
16	50	110	56		$\frac{3}{8}$
20	50	120	56	130	$\frac{1}{2}$
25	58	139	65	150	$\frac{3}{4}$
32	68	150	71	160	1
40	84	170	85	180	1 $\frac{1}{4}$
50	97	190	89	200	1 $\frac{1}{2}$
63	124	220	101	230	2
75	166	280	136	290	2 $\frac{1}{2}$
90	200	296	141	310	3
110	238	336	164	350	4



PROGEF Plus Check valve type 561 silicone free
Without spring
With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H / silicone free cleaned
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	180	167 561 242	0.080	167 561 252	0.080
25	20	10	380	167 561 243	0.170	167 561 253	0.180
32	25	10	460	167 561 244	0.190	167 561 254	0.190
40	32	10	850	167 561 245	0.340	167 561 255	0.340
50	40	10	1080	167 561 246	0.490	167 561 256	0.490
63	50	10	1670	167 561 247	0.930	167 561 257	0.930
75	65	10	2950	167 561 248	2.350	167 561 258	2.360
90	80	10	3600	167 561 249	3.660	167 561 259	3.680
110	100	10	4150	167 561 250	5.810	167 561 260	5.830

d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	50	130	56	1.9	½
25	58	143	65	2.3	¾
32	68	150	71	2.9	1
40	84	171	85	3.7	1 ¼
50	97	191	89	4.6	1 ½
63	124	220	101	5.8	2
75	166	266	136	6.8	2 ½
90	200	264	141	8.2	3
110	238	301	164	10.0	4

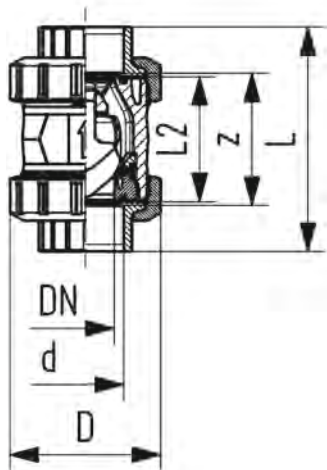
Type 562



PROGEF Plus silicone free Check valve type 562 With fusion sockets metric

Model:

- Material: PP-H / silicone free cleaned
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	190	167 562 201	0.080	167 562 211	0.080
20	15	10	180	167 562 202	0.080	167 562 212	0.080
25	20	10	380	167 562 203	0.170	167 562 213	0.180
32	25	10	460	167 562 204	0.190	167 562 214	0.190
40	32	10	850	167 562 205	0.330	167 562 215	0.340
50	40	10	1080	167 562 206	0.480	167 562 216	0.480
63	50	10	1670	167 562 207	0.880	167 562 217	0.880
75	65	10	2950	167 562 208	2.300	167 562 218	2.310
90	80	10	3600	167 562 209	3.560	167 562 219	3.580
110	100	10	4150	167 562 210	5.900	167 562 220	5.930

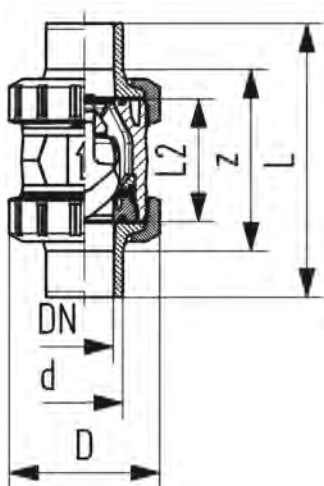
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	93	56	67	$\frac{3}{8}$
20	50	95	56	66	$\frac{1}{2}$
25	58	109	65	77	$\frac{3}{4}$
32	68	119	71	83	1
40	84	135	85	99	1 $\frac{1}{4}$
50	97	147	89	105	1 $\frac{1}{2}$
63	124	168	101	117	2
75	166	233	136	167	2 $\frac{1}{2}$
90	200	254	141	180	3
110	238	301	164	215	4



PROGEF Plus silicone free Check valve type 562 With socket fusion spigots metric

Model:

- Material: PP-H / silicone free cleaned
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	190	167 562 221	0.080	167 562 231	0.080
20	15	10	180	167 562 222	0.090	167 562 232	0.090
25	20	10	380	167 562 223	0.170	167 562 233	0.190
32	25	10	460	167 562 224	0.200	167 562 234	0.200
40	32	10	850	167 562 225	0.340	167 562 235	0.350
50	40	10	1080	167 562 226	0.510	167 562 236	0.510
63	50	10	1670	167 562 227	0.940	167 562 237	0.950
75	65	10	2950	167 562 228	2.360	167 562 238	2.370
90	80	10	3600	167 562 229	3.730	167 562 239	3.750
110	100	10	4150	167 562 230	5.960	167 562 240	5.980

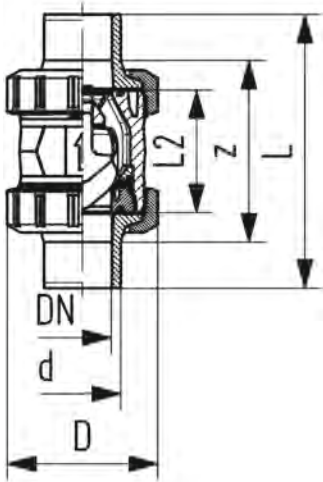
d (mm)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	50	110	56	$\frac{3}{8}$
20	50	120	56	$\frac{1}{2}$
25	58	139	65	$\frac{3}{4}$
32	68	150	71	1
40	84	170	85	1 $\frac{1}{4}$
50	97	190	89	1 $\frac{1}{2}$
63	124	220	101	2
75	166	280	136	2 $\frac{1}{2}$
90	200	296	141	3
110	238	336	164	4



PROGEF Plus silicone free Check valve type 562
With butt fusion spigots IR-Plus
SDR11 metric

Model:

- Material: PP-H / silicone free cleaned
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d	DN	PN	kv-value	EPDM	Weight	FKM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
20	15	10	180	167 562 242	0.080	167 562 252	0.080
25	20	10	380	167 562 243	0.170	167 562 253	0.180
32	25	10	460	167 562 244	0.190	167 562 254	0.190
40	32	10	850	167 562 245	0.340	167 562 255	0.340
50	40	10	1080	167 562 246	0.490	167 562 256	0.490
63	50	10	1670	167 562 247	0.930	167 562 257	0.930
75	65	10	2950	167 562 248	2.350	167 562 258	2.360
90	80	10	3600	167 562 249	3.660	167 562 259	3.680
110	100	10	4150	167 562 250	5.810	167 562 260	5.830

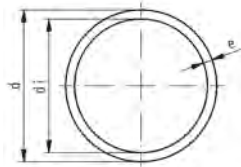
d	D	L	L2	e	closest
(mm)	(mm)	(mm)	(mm)	(mm)	inch
					(inch)
20	50	130	56	1.9	½
25	58	143	65	2.3	¾
32	68	150	71	2.9	1
40	84	171	85	3.7	1 ¼
50	97	191	89	4.6	1 ½
63	124	220	101	5.8	2
75	166	266	136	6.8	2 ½
90	200	264	141	8.2	3
110	238	301	164	10.0	4

PROGEF Natural



	Pipes	450
	Butt fusion fittings	451
	Butt fusion flange adaptors, flanges and gaskets	455
	Butt fusion transition fittings	458
	Sanitary adopters	460
	Butt fusion unions and o-rings	463
	Installation fittings	464
	Diaphragm valves type 515	466
	Diaphragm valves type 519	467
	Diaphragm valves pneumatic DIASTAR Six	469
	Diaphragm valves pneumatic DIASTAR Ten	470

Pipes

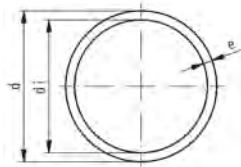


PROGEF Natural pipe SDR11/PN10/S5

Model:

- Material: PP-R
- Dimension: acc. to EN 15494
- Colour: natural
- Pipe length: 5000mm, with plain ends
- both ends closed with caps, single bagged in foil

d	SDR	PN	Code	Weight	e
(mm)		(bar)		(kg/m)	(mm)
20	11	10	168 480 151	0.107	1.9
25	11	10	168 480 152	0.164	2.3
32	11	10	168 480 153	0.261	2.9
40	11	10	168 480 154	0.412	3.7
50	11	10	168 480 155	0.638	4.6
63	11	10	168 480 156	1.010	5.8



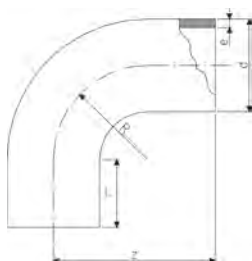
PROGEF Natural pipe SDR17,6/PN6/S8,3

Model:

- Material: PP-R
- Dimension: acc. to EN 15494
- Colour: natural
- Pipe length: 5000mm, with plain ends
- both ends closed with caps, single bagged in foil

d	PN	Code	Weight	e
(mm)	(bar)		(kg/m)	(mm)
75	6	168 480 282	0.935	4.3
90	6	168 480 283	1.330	5.1
110	6	168 480 284	1.990	6.3

Butt fusion fittings

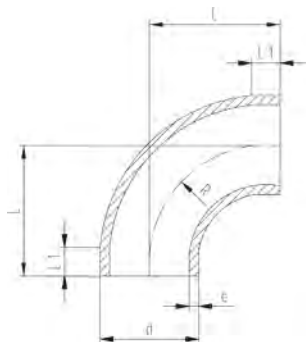


PROGEF Natural Bend 90° SDR11/PN10

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	e (mm)	z (mm)	R (mm)
20	11	10	BCF, IR	728 018 606	0.007	23	1.9	38	15
25	11	10	BCF, IR	728 018 607	0.012	23	2.3	42	19
32	11	10	BCF, IR	728 018 608	0.026	22	2.9	46	24
40	11	10	BCF, IR	728 018 609	0.038	21	3.7	51	30
50	11	10	BCF, IR	728 018 610	0.065	21	4.6	58	37
63	11	10	BCF, IR	728 018 611	0.115	21	5.8	66	45



PROGEF Natural Bend 90° SDR17.6/PN6

Model:

- Material: PP-R unpigmented
- Colour: natural
- Bead and crevice free weldable with the new BCF fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
75	17.6	6	BCF, IR	728 018 612	0.126	75	21	71.25	4.5
90	17.6	6	BCF, IR	728 018 613	0.218	90	22	85.50	5.4
110	17.6	6	BCF, IR	728 018 614	0.380	110	25	104.50	6.6



PROGEF Natural Elbow 45° SDR11/PN10

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d	SDR	PN	FM	Code	Weight	L	L1	e
(mm)		(bar)			(kg)	(mm)	(mm)	(mm)
20	11	10	BCF, IR	728 158 506	0.007	32	24	1.9
25	11	10	BCF, IR	728 158 507	0.002	34	25	2.3
32	11	10	BCF, IR	728 158 508	0.019	36	25	2.9
40	11	10	BCF, IR	728 158 509	0.037	39	25	3.7
50	11	10	BCF, IR	728 158 510	0.054	42	26	4.6
63	11	10	BCF, IR	728 158 511	0.097	47	29	5.8



PROGEF Natural Elbow 45° SDR17.6/PN6

Model:

- Material: PP-R unpigmented
- Colour: natural
- Bead and crevice free weldable with the new BCF fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d	SDR	PN	FM	Code	Weight	L	L1	e
(mm)		(bar)			(kg)	(mm)	(mm)	(mm)
75	17.6	6	BCF, IR	728 158 412	0.099	49	21	4.3
90	17.6	6	BCF, IR	728 158 413	0.164	57	21	5.1
110	17.6	6	BCF, IR	728 158 414	0.293	70	38	6.3



PROGEF Natural Tee 90° equal SDR11/PN10

Model:

- Material: PP-R unpigmented
- Colour: natural
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207



d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	11	10	BCF, IR	728 208 506	0.011	38	21	1.9
25	11	10	BCF, IR	728 208 507	0.018	42	21	2.3
32	11	10	BCF, IR	728 208 508	0.032	46	21	2.9
40	11	10	BCF, IR	728 208 509	0.059	51	23	3.7
50	11	10	BCF, IR	728 208 510	0.101	58	22	4.6
63	11	10	BCF, IR	728 208 511	0.182	66	20	5.8



PROGEF Natural Tee 90° equal SDR17.6/PN6

Model:

- Material: PP-R unpigmented
- Colour: natural
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207



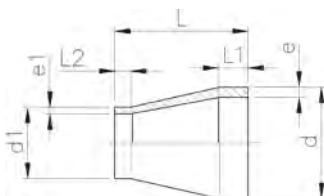
d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
75	17.6	6	BCF, IR	728 208 412	0.230	75	20	4.3
90	17.6	6	BCF, IR	728 208 413	0.401	90	20	5.1
110	17.6	6	BCF, IR	728 208 414	0.723	110	20	6.3



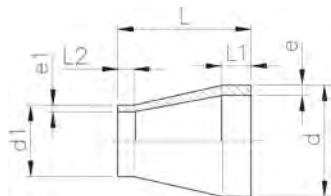
PROGEF Natural Reducer SDR11/PN10

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207



d (mm)	d1 (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
25	20	11	10	BCF, IR	728 908 537	0.007	50	20	20	2.3	1.9
32	20	11	10	BCF, IR	728 908 542	0.010	50	20	20	3.0	1.9
32	25	11	10	BCF, IR	728 908 541	0.011	50	20	20	3.0	2.3
40	20	11	10	BCF, IR	728 908 548	0.015	58	20	23	3.7	1.9
40	25	11	10	BCF, IR	728 908 547	0.016	55	20	20	3.7	2.3
40	32	11	10	BCF, IR	728 908 546	0.019	55	20	20	3.7	2.9
50	25	11	10	BCF, IR	728 908 554	0.025	60	20	20	4.6	2.3



d	d1	SDR	PN	FM	Code	Weight	L	L1	L2	e	e1
(mm)	(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
50	32	11	10	BCF, IR	728 908 553	0.027	60	20	20	4.6	2.9
50	40	11	10	BCF, IR	728 908 552	0.030	60	20	20	4.6	3.7
63	32	11	10	BCF, IR	728 908 560	0.043	65	20	20	5.8	2.9
63	40	11	10	BCF, IR	728 908 559	0.047	65	20	20	5.8	3.7
63	50	11	10	BCF, IR	728 908 558	0.052	65	20	20	5.8	4.6

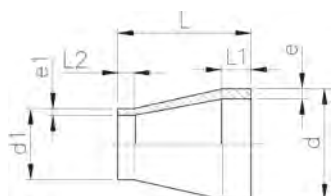


PROGEF Natural Reducer SDR17.6/PN6

Model:

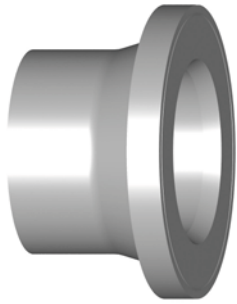
- Material: PP-R unpigmented
- Colour: natural
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

* SDR17,6 - SDR11



	d	d1	SDR	PN	FM	Code	Weight	L	L1	L2	e	e1
	(mm)	(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
*	75	40	17.6	6	BCF, IR	728 908 466	0.048	68	20	23	4.3	3.7
*	75	50	17.6	6	BCF, IR	728 908 465	0.051	65	20	20	4.3	4.6
*	75	63	17.6	6	BCF, IR	728 908 464	0.060	65	20	20	4.3	5.8
*	90	63	17.6	6	BCF, IR	728 908 471	0.087	75	22	19	5.1	5.8
	90	75	17.6	6	BCF, IR	728 908 470	0.086	75	21	19	5.1	4.3
*	110	63	17.6	6	BCF, IR	728 908 472	0.145	90	28	28	6.3	5.8
	110	75	17.6	6	BCF, IR	728 908 477	0.135	90	26	20	6.3	4.3
	110	90	17.6	6	BCF, IR	728 908 476	0.154	90	25	22	6.3	5.1

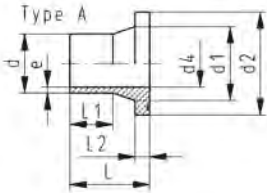
Butt fusion flange adaptors, flanges and gaskets



PROGEF Natural Flange adaptor SDR11/PN10 combined jointing face: flat and serrated

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07



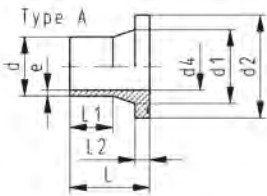
d	DN	SDR	PN	FM	Code	Weight	L	L1	L2	e	d1	d2	d4
(mm)	(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	15	11	10	BCF/IR	728 798 706	0.015	50	29	7	1.9	27	45	16
25	20	11	10	BCF/IR	728 798 707	0.028	52	27	9	2.3	33	58	20
32	25	11	10	BCF/IR	728 798 708	0.042	54	28	10	3.0	40	68	26
40	32	11	10	BCF/IR	728 798 709	0.064	56	25	11	3.7	50	78	32
50	40	11	10	BCF/IR	728 798 710	0.092	62	32	12	4.6	61	88	40
63	50	11	10	BCF/IR	728 798 711	0.139	68	38	14	5.8	75	102	51



PROGEF Natural Flange adaptor SDR17.6/PN6 combined jointing face: flat and serrated

Model:

- Material: PP-R unpigmented
- Colour: natural
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207



d	SDR	PN	FM	Code	Weight	L	L1	L2	e	d1	d2	d4
(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
75	17.6	6	BCF, IR	728 798 787	0.202	80	43	16	4.8	89	121	65
90	17.6	6	BCF, IR	728 798 788	0.271	80	41	17	5.7	105	138	78
110	17.6	6	BCF, IR	728 798 789	0.354	80	40	18	6.9	125	158	96

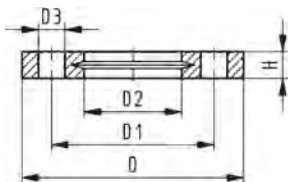


Flanges PP-V (full plastic)

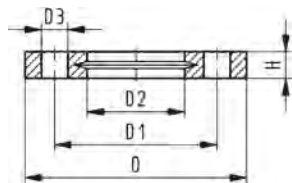
Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes



d	DN	d	PN	Standard	Bolt / circle	Design	Code	Weight
(mm)	(mm)	(inch)	(bar)					(kg)
20	15		16	Metric	PN10	Butt/Socket	727 700 406	0.093
25	20		16	Metric	PN10	Butt/Socket	727 700 407	0.120
32	25		16	Metric	PN10	Butt/Socket	727 700 408	0.151
40	32		16	Metric	PN10	Butt/Socket	727 700 409	0.244
50	40		16	Metric	PN10	Butt/Socket	727 700 410	0.297
63	50		16	Metric	PN10	Butt/Socket	727 700 411	0.362
75	65		16	Metric	PN10	Butt/Socket	727 700 412	0.487
90	80		16	Metric	PN10	Butt	727 700 513	0.544
110	100		16	Metric	PN10	Butt	727 700 514	0.643



d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
20	95	65	28	14	16	4	M12
25	105	75	34	14	17	4	M12
32	115	85	42	14	18	4	M12
40	140	100	51	18	20	4	M16
50	150	110	62	18	22	4	M16
63	165	125	78	18	24	4	M16
75	185	145	92	18	26	4	M16
90	200	160	108	18	27	8	M16
110	220	180	128	18	28	8	M16



Flanges PP-Steel

Model:

- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

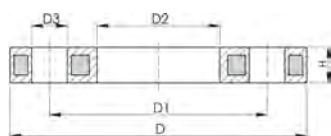
AL: number of holes

¹⁾ FM 1613 approved – 15 bar

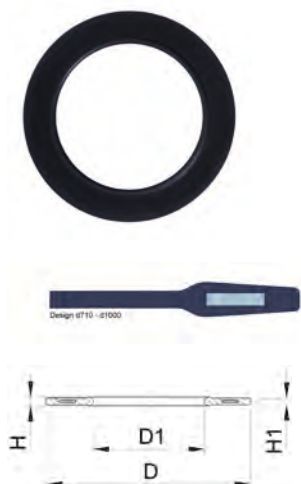
²⁾ Profiled loose flange



d	DN	D	PN	Standard	Bolt /	Design	Code	Weight	
(mm)	(mm)	(mm)	(bar)		circle			(kg)	
20	15	95	16	Metric	PN10	Butt/Socket	727 700 206	0.216	
25	20	105	16	Metric	PN10	Butt/Socket	727 700 207	0.279	
32	25	115	16	Metric	PN10	Butt/Socket	727 700 208	0.429	
40	32	140	16	Metric	PN10	Butt/Socket	727 700 209	0.621	
50	40	150	16	Metric	PN10	Butt/Socket	727 700 210	0.722	
63	50	165	16	Metric	PN10	Butt/Socket	727 700 211	0.900	
75	65	185	16	Metric	PN10	Butt/Socket	727 700 212	1.110	
1	90	80	200	16	Metric	PN10	Butt	724 700 313	1.390
1	110	100	223	16	Metric	PN10	Butt	724 700 314	1.407
	110	100	220	16	Metric	PN10	Butt	727 700 314	1.407



	d	D1	D2	D3	H max.	AL	SC
	(mm)	(mm)	(mm)	(mm)	(mm)		
	20	65	28	14	12	4	M12
	25	75	34	14	12	4	M12
	32	85	42	14	16	4	M12
	40	100	51	18	16	4	M16
	50	110	62	18	20	4	M16
	63	125	78	18	20	4	M16
	75	145	92	18	20	4	M16
1	90	160	108	18	20	8	M16
1	110	180	128	18	20	8	M16
	110	180	128	18	20	8	M16



Profile Flange Gasket EPDM/FKM metric

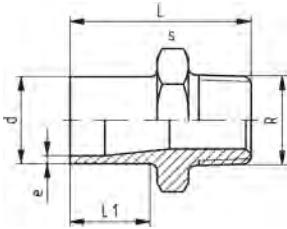
Model:

- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

di FA are the suitable inner diameters of flanges adaptors

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
20	15	16	748 440 706	749 440 706	0.013	51	20	10 - 20	4	3
25	20	16	748 440 707	749 440 707	0.014	61	22	12 - 22	4	3
32	25	16	748 440 708	749 440 708	0.019	71	28	18 - 28	4	3
40	32	16	748 440 709	749 440 709	0.026	82	40	30 - 40	4	3
50	40	16	748 440 710	749 440 710	0.039	92	46	36 - 46	4	3
63	50	16	748 440 711	749 440 711	0.050	107	58	48 - 58	5	4
75	65	16	748 440 712	749 440 712	0.082	127	69	59 - 69	5	4
90	80	16	748 440 713	749 440 713	0.083	142	84	73 - 84	5	4
110	100	16	748 440 714	749 440 714	0.127	162	104	94 - 104	6	5

Butt fusion transition fittings

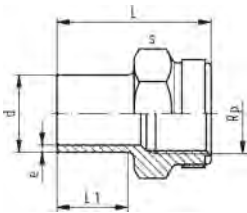


PROGEF Natural Adaptor nipple SDR11/PN10 Metric R

Model:

- Material: PP-R unpigmented
- With butt fusion spigot SDR11 and tapered male thread
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d	Thread Type	Size	SDR	PN	FM	Code	Weight	L	L1	s	e
(mm)		(inch)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)
20	R	½	11	10	BCF, IR	728 918 106	0.013	51	28	32	1.9
25	R	¾	11	10	BCF, IR	728 918 107	0.017	52	28	36	2.3
32	R	1	11	10	BCF, IR	728 918 108	0.027	55	28	46	2.9
40	R	1 ¼	11	10	BCF, IR	728 918 109	0.037	58	28	55	3.7
50	R	1 ½	11	10	BCF, IR	728 918 110	0.052	60	28	65	4.6
63	R	2	11	10	BCF, IR	728 918 111	0.092	67	28	80	5.8

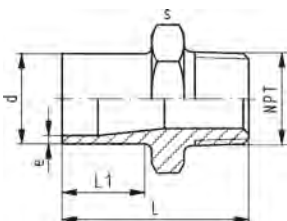


PROGEF Natural Adaptor socket SDR11/PN10 Metric Rp

Model:

- With butt fusion spigot **SDR11** and BSP parallel female thread Rp, reinforced
- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Material: PP-R unpigmented
- Do not use thread sealing pastes that are harmful to PP

d	Size	SDR	PN	FM	Thread Type	Code	Weight	L	L1	e	s
(mm)	(inch)		(bar)				(kg)	(mm)	(mm)	(mm)	(mm)
20	½	11	10	BCF, IR	Rp	728 918 056	0.014	49	28	1.9	32
25	¾	11	10	BCF, IR	Rp	728 918 057	0.022	51	28	2.3	36
32	1	11	10	BCF, IR	Rp	728 918 058	0.039	54	28	2.9	46
40	1 ¼	11	10	BCF, IR	Rp	728 918 059	0.057	56	28	3.7	55
50	1 ½	11	10	BCF, IR	Rp	728 918 060	0.085	60	28	4.6	64
63	2	11	10	BCF, IR	Rp	728 918 061	0.140	62	28	5.8	80

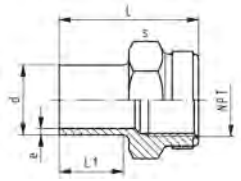


PROGEF Natural Adaptor nipple SDR11/PN10 Metric NPT

Model:

- Material: PP-R unpigmented
- With butt fusion spigot **SDR11** and NPT tapered male thread
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d	Thread Type	Size	SDR	PN	FM	Code	Weight	L	L1	s	e
(mm)		(inch)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)
20	NPT	½	11	10	BCF, IR	728 914 106	0.013	51	28	32	1.9
25	NPT	¾	11	10	BCF, IR	728 914 107	0.017	52	28	36	2.3
32	NPT	1	11	10	BCF, IR	728 914 108	0.027	55	28	46	2.9
40	NPT	1 ¼	11	10	BCF, IR	728 914 109	0.039	58	28	55	3.7
50	NPT	1 ½	11	10	BCF, IR	728 914 110	0.054	60	28	65	4.6
63	NPT	2	11	10	BCF, IR	728 914 111	0.093	67	28	80	5.8



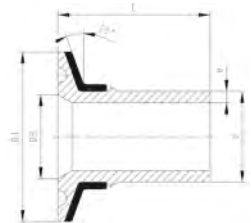
PROGEF Natural Adaptor socket **SDR11/PN10 Metric NPT**

Model:

- Material: PP-R unpigmented
- With butt fusion spigot **SDR11** and NPT tapered female thread, reinforced
- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d	Thread Type	Size	SDR	PN	FM	Code	Weight	L	L1	s	e
(mm)		(inch)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)
20	NPT	½	11	10	BCF, IR	728 914 056	0.016	49	28	32	1.9
25	NPT	¾	11	10	BCF, IR	728 914 057	0.019	51	28	36	2.3
32	NPT	1	11	10	BCF, IR	728 914 058	0.039	54	28	46	2.9
40	NPT	1 ¼	11	10	BCF, IR	728 914 059	0.052	56	28	55	3.7
50	NPT	1 ½	11	10	BCF, IR	728 914 060	0.085	60	28	64	4.6
63	NPT	2	11	10	BCF, IR	728 914 061	0.140	62	28	80	5.8

Sanitary adopters

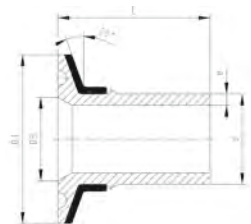


PROGEF Natural Sanitary adaptor SDR11/PN10 Connection to ISO 1127

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainlesssteel reinforcement ring
- Conventional butt-welding according to DVS 2207
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)

d	DN	SDR	PN	FM	Code	Weight	L	D1	D3	e
(mm)	(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)
20	15	11	10	BCF, IR	728 598 006	0.031	49	50	18	1.9
25	20	11	10	BCF, IR	728 598 008	0.029	50	50	23	2.3
25	25	11	10	BCF, IR	728 598 009	0.029	50	50	29	2.3
32	25	11	10	BCF, IR	728 598 010	0.030	53	50	29	2.9
40	32	11	10	BCF, IR	728 598 014	0.054	54	64	38	3.7
50	40	11	10	BCF, IR	728 598 016	0.064	61	64	44	4.6
63	50	11	10	BCF, IR	728 598 018	0.097	67	77	56	5.8

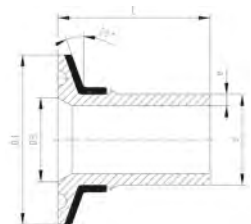


PROGEF Natural Sanitary adaptor SDR11/PN10 Connection to ISO 2852

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainlesssteel reinforcement ring

d	DN	SDR	PN	FM	Code	Weight	L	D1	D3	e
(mm)	(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)
25	20	11	10	BCF, IR	728 598 309	0.027	50	51	22	2.3
32	25	11	10	BCF, IR	728 598 312	0.031	53	51	32	2.9
40	32	11	10	BCF, IR	728 598 315	0.033	54	51	35	3.7
50	40	11	10	BCF, IR	728 598 317	0.061	61	64	49	4.6
63	50	11	10	BCF, IR	728 598 319	0.093	67	78	60	5.8

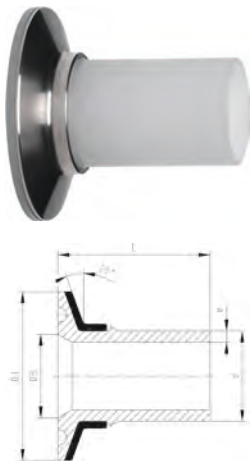


PROGEF Natural Sanitary adaptor SDR11/PN10 Connection to DIN 32676

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainlesssteel reinforcement ring
- Conventional butt-welding according to DVS 2207
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)

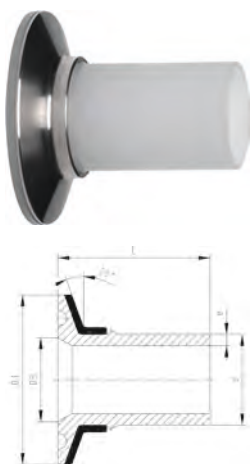
d	DN	SDR	PN	FM	Code	Weight	L	D1	D3	e
(mm)	(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)
20	15	11	10	BCF, IR	728 598 056	0.013	49.0	34.0	16.20	1.9
20	20	11	10	BCF, IR	728 598 057	0.013	49.0	34.0	20.00	1.9
25	25	11	10	BCF, IR	728 598 059	0.032	49.5	50.5	26.00	2.3
32	32	11	10	BCF, IR	728 598 062	0.031	53.0	50.5	31.65	2.9
40	40	11	10	BCF, IR	728 598 065	0.036	54.0	50.5	38.00	3.7
50	50	11	10	BCF, IR	728 598 067	0.060	61.0	64.0	50.00	4.6



PROGEF Natural Sanitary adaptor SDR11/PN10 Connection to ASME BPE

* Without stainless steel support ring

	d (mm)	Size (inch)	SDR	PN (bar)	FM	Code	Weight (lb)	L (mm)	D1 (mm)	D3 (mm)	e (mm)
*	20	¾	11	10	BCF, IR	728 598 357	0.011	49	25	16	1.9
	25	1	11	10	BCF, IR	728 598 359	0.064	50	51	22	2.3
	32	1 ½	11	10	BCF, IR	728 598 362	0.066	53	51	35	2.9
	40	1 ½	11	10	BCF, IR	728 598 365	0.082	54	51	35	3.7
	50	2	11	10	BCF, IR	728 598 367	0.139	61	64	48	4.6
	63	2 ½	11	10	BCF, IR	728 598 369	0.212	67	78	60	5.8

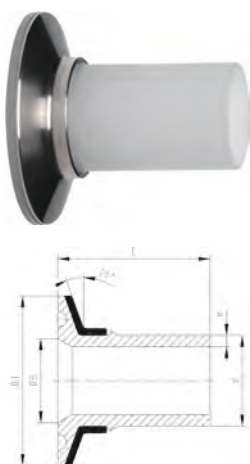


PROGEF Natural Sanitary adaptor SDR11/PN10 Connection to JIS G3447

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainlesssteel reinforcement ring

	d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	D1 (mm)	D3 (mm)	e (mm)
	20	11	10	BCF, IR	728 598 406	0.014	49	34	18	1.9
	25	11	10	BCF, IR	728 598 408	0.032	50	50	23	2.3
	32	11	10	BCF, IR	728 598 410	0.033	53	50	30	2.9
	40	11	10	BCF, IR	728 598 414	0.033	54	50	35	3.7
	50	11	10	BCF, IR	728 598 416	0.061	61	64	48	4.6
	63	11	10	BCF, IR	728 598 418	0.093	67	78	60	5.8



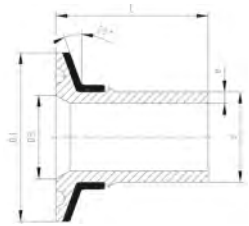
PROGEF Natural Sanitary adaptor SDR11/PN10 Connection to 3A standard

Model:

- Stainlesssteel reinforcement ring
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207

* Without stainless steel reinforcement ring

	d (mm)	Size (inch)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	D1 (mm)	D3 (mm)	e (mm)
*	20	¾	11	10	BCF, IR	728 598 207	0.006	49	25	16	1.9
	25	1	11	10	BCF, IR	728 598 209	0.031	50	50	22	2.3
	32	1 ½	11	10	BCF, IR	728 598 213	0.032	53	50	35	2.9
	40	1 ½	11	10	BCF, IR	728 598 215	0.033	54	50	35	3.7
	50	2	11	10	BCF, IR	728 598 217	0.062	61	64	48	4.6
	63	2 ½	11	10	BCF, IR	728 598 219	0.093	67	78	60	5.8



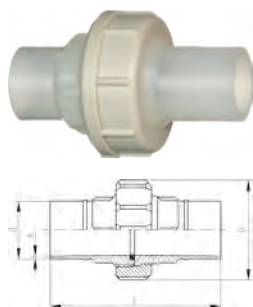
PROGEF Natural Sanitary adaptor
SDR11/PN10 Connection to membrane manometer

Model:

- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainlesssteel reinforcement ring
- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207

d	DN	SDR	PN	FM	Code	Weight	L	D1	D3	e
(mm)	(mm)		(bar)			(kg)	(mm)	(mm)	(mm)	(mm)
20	15	11	10	BCF, IR	728 598 516	0.029	49	50	34	1.9
25	20	11	10	BCF, IR	728 598 518	0.027	50	50	34	2.3
32	25	11	10	BCF, IR	728 598 520	0.032	53	50	34	2.9

Butt fusion unions and o-rings



**PROGEF Natural Sanitary union
SDR11/PN10**

d (mm)	SDR	PN (bar)	FM	EPDM Code	FKM Code	Weight (lb)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	e (mm)
20	11	10	BCF, IR	728 518 526	728 528 526	0.106	107	53	25	48	1.9
25	11	10	BCF, IR	728 518 527	728 528 527	0.168	113	56	25	58	2.3
32	11	10	BCF, IR	728 518 528	728 528 528	0.234	119	59	25	65	2.9
40	11	10	BCF, IR	728 518 529	728 528 529	0.324	126	63	25	79	3.7
50	11	10	BCF, IR	728 518 530	728 528 530	0.428	131	65	25	91	4.6
63	11	10	BCF, IR	728 518 531	728 528 531	0.756	137	68	25	111	5.8

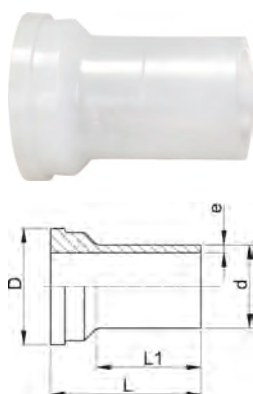


**PROGEF Natural Union bush
SDR11/PN10**

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	G (kierre R/ Rp BS) (inch)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	1	11	10	BCF, IR	728 648 526	0.012	54	26	1.9
25	1 1/4	11	10	BCF, IR	728 648 527	0.020	57	26	2.3
32	1 1/2	11	10	BCF, IR	728 648 528	0.029	60	25	2.9
40	2	11	10	BCF, IR	728 648 529	0.047	63	25	3.7
50	2 1/4	11	10	BCF, IR	728 648 530	0.072	66	25	4.6
63	2 3/4	11	10	BCF, IR	728 648 531	0.104	69	25	5.8



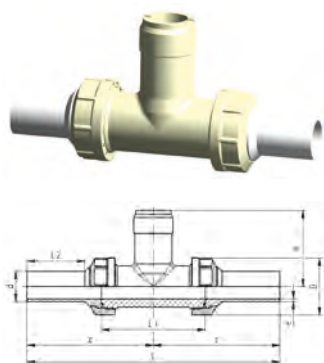
**PROGEF Natural union end IR S5
SDR11/PN10**

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	D (mm)	e (mm)
20	BCF, IR	728 608 506	0.004	53	35	30	1.9
25	BCF, IR	728 608 507	0.013	56	36	39	2.6
32	BCF, IR	728 608 508	0.024	59	38	45	3.0
40	BCF, IR	728 608 509	0.042	63	39	57	3.7
50	BCF, IR	728 608 510	0.055	65	41	63	4.6
63	BCF, IR	728 608 511	0.092	69	43	78	5.8

Installation fittings



PROGEF Natural installation fitting type 318 For butt fusion systems metric PN 10 Body from PP-H

Model:

- Body and union nut PP-H
- Threaded outlet 1 1/4" NPSM
- Union end with butt fusion spigot PP-R

Range of use:

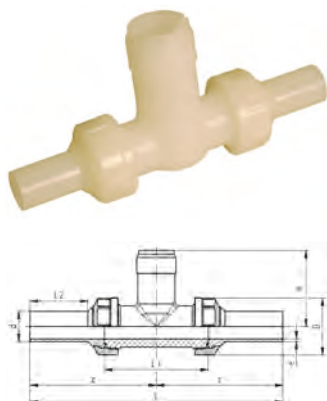
- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

Attention:

- sensor length depends on installation fitting

d (mm)	DN (mm)	PN (bar)	FM	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	BCF, IR	728 318 106	0.250	728 318 136	0.250
25	20	10	BCF, IR	728 318 107	0.190	728 318 137	0.190
32	25	10	BCF, IR	728 318 108	0.250	728 318 138	0.250
40	32	10	BCF, IR	728 318 109	0.356	728 318 139	0.356
50	40	10	BCF, IR	728 318 110	0.510	728 318 140	0.510
63	50	10	BCF, IR	728 318 111	0.800	728 318 141	0.800

d (mm)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	H (mm)	z (mm)	e (mm)	Sensor Type
20	198	90	38	45	76	99	2	flow X0, pH XX
25	214	100	42	55	78	107	2	flow X0, pH XX
32	230	110	41	62	81	115	3	flow X0, pH XX
40	236	110	42	75	85	118	4	flow X0, pH XX
50	252	120	44	84	89	126	5	flow X0, pH XX
63	268	130	45	101	95	134	6	flow X0, pH XX



PROGEF Natural installation fitting type 318 For butt fusion systems metric PN 10 Body from PVDF

Model:

- Body and union nut PVDF
- Threaded outlet 1 1/4" NPSM
- Union end with butt fusion spigot PP-R

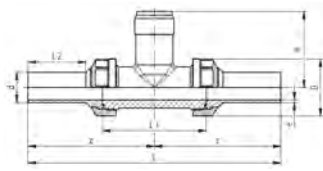
Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

Attention:

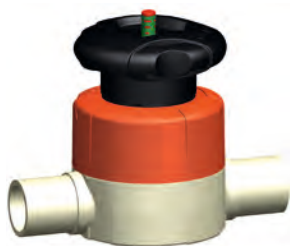
- sensor length depends on installation fitting

d (mm)	DN (mm)	PN (bar)	FM	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	BCF, IR	728 318 006	0.250	728 318 036	0.250
25	20	10	BCF, IR	728 318 007	0.355	728 318 037	0.355
32	25	10	BCF, IR	728 318 008	0.427	728 318 038	0.427
40	32	10	BCF, IR	728 318 009	0.700	728 318 039	0.700
50	40	10	BCF, IR	728 318 010	0.850	728 318 040	0.850
63	50	10	BCF, IR	728 318 011	1.182	728 318 041	1.182



d	L	L1	L2	D	H	z	e	Sensor Type
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
20	198	90	38	45	76	99	2	flow X0, pH XX
25	214	100	42	55	78	107	2	flow X0, pH XX
32	230	110	41	62	81	115	3	flow X0, pH XX
40	236	110	42	75	85	118	4	flow X0, pH XX
50	252	120	44	84	89	126	5	flow X0, pH XX
63	268	130	45	101	95	134	6	flow X0, pH XX

Diaphragm valves type 515



PROGEF Natural Diaphragm valve type 515 With butt fusion spigots SDR11 metric

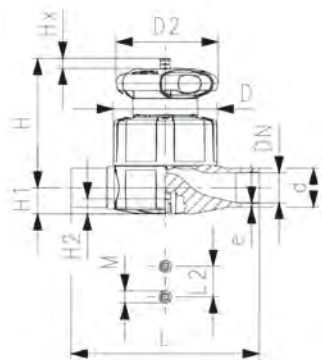
Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- *PN: PTFE

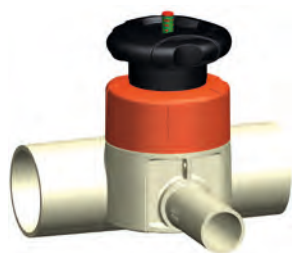
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	EPDM Code	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	6*	168 515 112	168 515 132	0.308
25	20	¾	10	6*	168 515 113	168 515 133	0.393
32	25	1	10	6*	168 515 114	168 515 134	0.969
40	32	1 ¼	10	6*	168 515 115	168 515 135	1.125
50	40	1 ½	10	6*	168 515 116	168 515 136	2.083
63	50	2	10	6*	168 515 117	168 515 137	2.630

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	65	65	73	14	12	124	25	M6	7	½
25	80	65	81	18	12	144	25	M6	10	¾
32	88	87	107	22	12	155	25	M6	13	1
40	101	87	115	26	15	176	45	M8	15	1 ¼
50	117	135	148	32	15	193	45	M8	19	1 ½
63	144	135	166	39	15	223	45	M8	25	2

Diaphragm valves type 519



PROGEF Natural Diaphragm valve type 519 With butt fusion spigots SDR11 metric

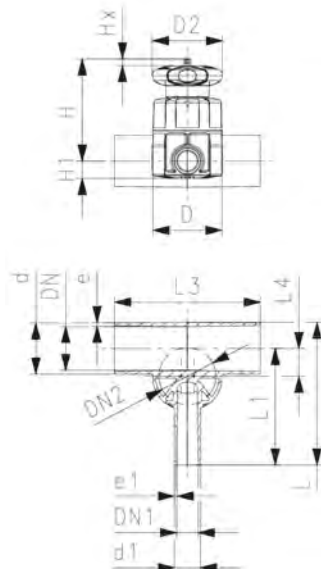
Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Smallest possible dead space

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

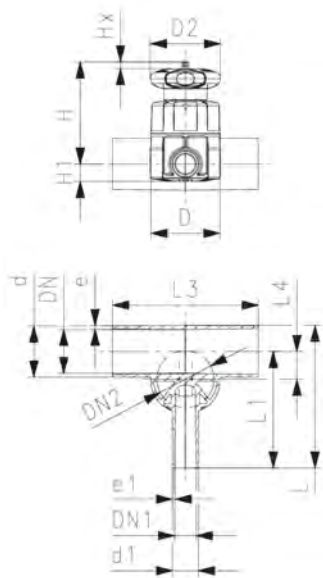
* O-Ring material: FKM



d (mm)	d1 (mm)	DN (mm)	DN1 (mm)	Size (inch)	kv-value ($\Delta p=1$ bar) (l/min)	Valve Size d (mm)	SDR	PN (bar)
20	20	15	15	½	57	20	11	10
25	20	20	15	¾	89	25	11	10
25	25	20	20	¾	118	25	11	10
32	20	25	15	1	80	25	11	10
32	25	25	20	1	105	25	11	10
32	32	25	25	1	231	32	11	10
40	20	32	15	1 ¼	85	32	11	10
40	40	32	32	1 ¼	187	40	11	10
50	20	40	15	1 ½	86	25	11	10
50	25	40	20	1 ½	160	32	11	10
50	32	40	25	1 ½	206	32	11	10
63	20	50	15	2	84	25	11	10
63	25	50	20	2	150	32	11	10
63	32	50	25	2	184	32	11	10

d (mm)	EPDM Code	PTFE/ EPDM* Code	Weight (kg)
20	168 519 101	168 519 301	0.322
25	168 519 103	168 519 303	0.398
25	168 519 104	168 519 304	0.399
32	168 519 107	168 519 307	0.425
32	168 519 108	168 519 308	0.427
32	168 519 109	168 519 309	0.981
40	168 519 112	168 519 312	1.008
40	168 519 115	168 519 315	1.034
50	168 519 118	168 519 318	0.485
50	168 519 119	168 519 319	0.605
50	168 519 120	168 519 320	1.056
63	168 519 125	168 519 325	0.524
63	168 519 126	168 519 326	1.097
63	168 519 127	168 519 327	1.100

d (mm)	D (mm)	D2 (mm)	H (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	closest inch (inch)	e1 (mm)
20	65	65	75	117	96	162	12	1.9	7	15	½	1.9
25	80	65	80	133	108	162	16	2.3	10	20	¾	1.9
25	80	65	80	133	108	162	16	2.3	10	20	¾	2.3
32	80	65	84	142	120	162	19	2.9	10	20	1	1.9
32	80	65	84	142	120	162	19	2.9	10	20	1	2.3
32	88	87	107	145	120	160	19	2.9	13	25	1	2.9
40	88	87	115	149	128	180	23	3.7	13	25	1 ¼	1.9
40	88	87	115	174	153	180	23	3.7	13	25	1 ¼	3.7
50	80	65	97	160	134	180	27	4.6	10	20	1 ½	1.9



d (mm)	D (mm)	D2 (mm)	H (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	closest inch (inch)	e1 (mm)
50	88	87	120	160	134	180	28	4.6	13	25	1 ½	2.3
50	88	87	120	160	134	180	28	4.6	13	25	1 ½	2.9
63	80	65	104	177	144	180	33	5.8	10	20	2	1.9
63	88	87	127	177	144	180	35	5.8	13	25	2	2.3
63	88	87	127	177	144	180	35	5.8	13	25	2	2.9

Diaphragm valves pneumatic DIASTAR Six



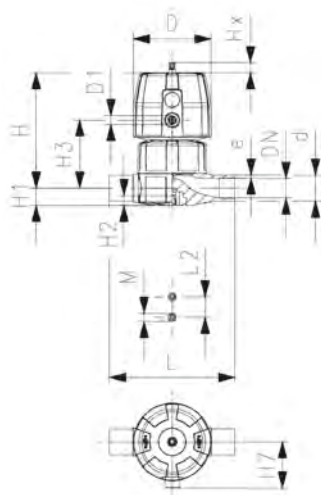
PROGEF Natural Diaphragm valve DIASTAR Six With butt fusion spigots SDR11 metric

Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)
25	20	¾	6	271	168 615 113	0.901
32	25	1	6	481	168 615 114	1.063
40	32	1 ¼	6	759	168 615 115	1.744
50	40	1 ½	6	960	168 615 116	2.203
63	50	2	6	1181	168 615 117	2.979

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
25	96	¾	132	18	12	73	57	144	25	M6	2.3	10	¾
32	96	¾	143	22	12	84	57	154	25	M6	2.9	13	1
40	120	¾	173	26	15	99	69	174	45	M8	3.7	14	1 ¼
50	120	¾	193	32	15	119	69	194	45	M8	4.6	16	1 ½
63	120	¾	205	39	15	132	69	224	45	M8	5.8	16	2

Diaphragm valves pneumatic DIASTAR Ten



PROGEF Natural Diaphragm valve DIASTAR Ten DA (Double acting) With butt fusion spigots SDR11 metric

Model:

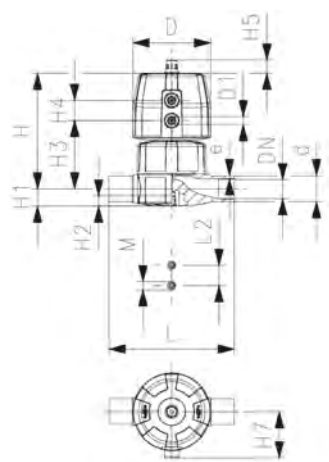
- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**



d	DN	Size	PN	PN*	kv-value	EPDM	Weight	PTFE	Weight
(mm)	(mm)	(inch)	(bar)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
					(l/min)				
20	15	½	10	6*	125	168 655 112	0.426	168 655 132	0.436
25	20	¾	10	6*	271	168 655 113	0.765	168 655 133	0.777
32	25	1	10	6*	481	168 655 114	0.924	168 655 134	0.945
40	32	1 ¼	10	6*	759	168 655 115	1.474	168 655 135	1.494
50	40	1 ½	10	6*	1263	168 655 116	2.501	168 655 136	2.531
63	50	2	10	5*	1728	168 655 117	3.060	168 655 137	3.088

d	D	D1_G	H	H1	H2	H3	H4	H5	H7	L	L2	M	e	Lift = Hx
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
20	68	⅝	101	14	12	60	24	16	43	124	25	M6	2	7
25	96	⅝	132	18	12	73	25	16	57	144	25	M6	2	10
32	96	⅝	143	22	12	84	25	16	57	154	25	M6	3	13
40	120	⅝	173	26	15	99	26	26	69	174	45	M8	4	15
50	150	⅝	214	32	15	119	36	26	88	194	45	M8	5	19
63	150	⅝	226	39	15	132	36	26	88	224	45	M8	6	23

d	closest
(mm)	inch
	(inch)
20	¾
25	1
32	1 ¼
40	1 ½
50	2
63	2 ½



PROGEF Natural Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With butt fusion spigots SDR11 metric

Model:

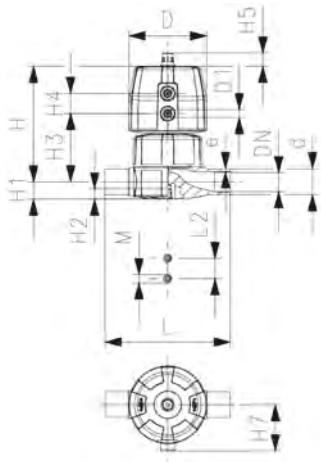
- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**



d	DN	Size	PN	PN*	kv-value	EPDM	Weight	PTFE	Weight
(mm)	(mm)	(inch)	(bar)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
					(l/min)				
20	15	½	10	6*	125	168 645 112	0.442	168 645 132	0.452
25	20	¾	10	6*	271	168 645 113	0.802	168 645 133	0.813
32	25	1	10	6*	481	168 645 114	0.955	168 645 134	0.975
40	32	1 ¼	10	6*	759	168 645 115	1.534	168 645 135	1.554
50	40	1 ½	10	6*	1263	168 645 116	3.251	168 645 136	3.281
63	50	2	10	5*	1728	168 645 117	3.810	168 645 137	3.838

d	D	D1_G	H	H1	H2	H3	H4	H5	H7	L	L2	M	e	Lift =
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	Hx
														(mm)
20	68	⅝	101	14	12	60	24	16	43	124	25	M6	2	7
25	96	⅝	132	18	12	73	25	16	57	144	25	M6	2	10
32	96	⅝	143	22	12	84	25	16	57	154	25	M6	3	13
40	120	⅝	173	26	15	99	26	26	69	174	45	M8	4	15
50	150	⅝	214	32	15	119	36	26	88	194	45	M8	5	19
63	150	⅝	226	39	15	132	36	26	88	224	45	M8	6	23

d	closest
(mm)	inch
	(inch)
20	⅝
25	¾
32	1
40	1 ¼
50	1 ½
63	2



**PROGEF Natural Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
With butt fusion spigots SDR11 metric**

Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Smallest possible dead space

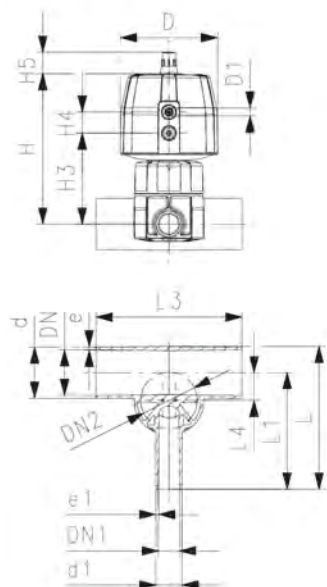
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

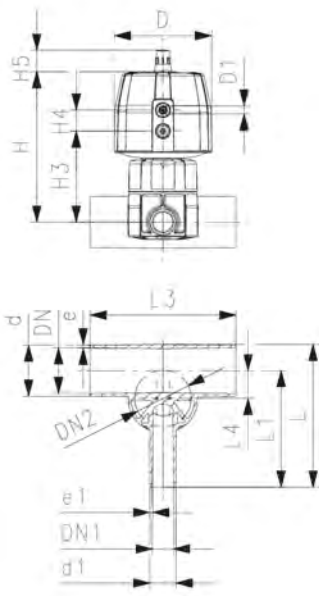
* O-Ring material: FKM



d	d1	DN	DN1	Size	PN	kv-value (Δp=1 bar)	SDR	Valve Size d	PN*	EPDM Code	Weight (kg)
(mm)	(mm)	(mm)	(mm)	(inch)	(bar)	(L/min)		(mm)	(bar)		
20	20	15	15	½	10	57	11	20	6*	168 629 101	0.506
25	20	20	15	¾	10	89	11	25	6*	168 629 103	0.981
25	25	20	20	¾	10	118	11	25	6*	168 629 104	0.982
32	20	25	15	1	10	80	11	25	6*	168 629 107	1.008
32	25	25	20	1	10	105	11	25	6*	168 629 108	1.010
32	32	25	25	1	10	231	11	32	6*	168 629 109	1.147
40	20	32	15	1 ¼	10	85	11	32	6*	168 629 112	1.174
50	20	40	15	1 ½	10	86	11	25	6*	168 629 118	1.068
50	25	40	20	1 ½	10	160	11	32	6*	168 629 119	1.220
50	32	40	25	1 ½	10	206	11	32	6*	168 629 120	1.222
63	20	50	15	2	10	84	11	25	6*	168 629 125	1.107
63	25	50	20	2	10	150	11	32	6*	168 629 126	1.263
63	32	50	25	2	10	184	11	32	6*	168 629 127	1.266

d	PTFE/ EPDM*	Weight
(mm)	Code	(kg)
20	168 629 301	0.516
25	168 629 303	0.992
25	168 629 304	0.993
32	168 629 307	1.019
32	168 629 308	1.021
32	168 629 309	1.167
40	168 629 312	1.194
50	168 629 318	1.079
50	168 629 319	1.240
50	168 629 320	1.242
63	168 629 325	1.119
63	168 629 326	1.283
63	168 629 327	1.286

d	D	D1	H	H3	H4	H5	L	L1	L3	L4	e	e1	DN2	Lift = Hx
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	68	¾	104	71	25	16	117	96	162	12	1.9	1.9	15	7
25	96	¾	131	72	25	16	133	108	162	16	2.3	1.9	20	10
25	96	¾	131	72	25	16	133	108	162	16	2.3	2.3	20	10
32	96	¾	135	76	25	16	142	120	162	19	2.9	1.9	20	10
32	96	¾	135	76	25	16	142	120	162	19	2.9	2.3	20	10
32	96	¾	143	93	25	16	145	120	160	19	2.9	2.9	25	13
40	96	¾	151	101	25	16	149	128	180	23	3.7	1.9	25	13
50	96	¾	148	90	25	16	160	134	180	27	4.6	1.9	20	10
50	96	¾	156	106	25	16	160	134	180	28	4.6	2.3	25	13



d	D	D1	H	H3	H4	H5	L	L1	L3	L4	e	e1	DN2	Lift = Hx
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
50	96	⅜	156	106	25	16	160	134	180	28	4.6	2.9	25	13
63	96	⅜	155	96	25	16	177	144	180	33	5.8	1.9	20	10
63	96	⅜	163	113	25	16	177	144	180	35	5.8	2.3	25	13
63	96	⅜	163	113	25	16	177	144	180	35	5.8	2.9	25	13



**PROGEF Natural Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
With butt fusion spigots SDR11 metric**

Model:

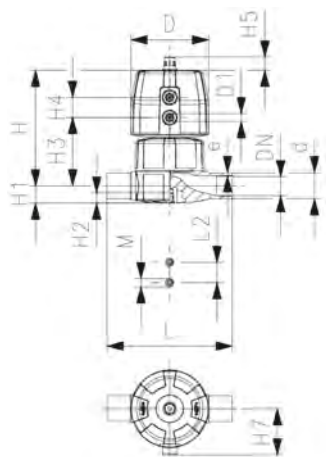
- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

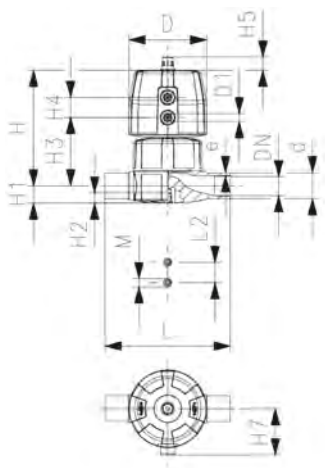
* PN: PTFE

Working Pressure: **one side**



d	DN	Size	PN	PN*	kv-value (Δp=1 bar)	EPDM Code	Weight (kg)	PTFE Code	Weight (kg)
(mm)	(mm)	(inch)	(bar)	(bar)	(l/min)				
20	15	⅜	10	6*	125	168 625 112	0.492	168 625 132	0.502
25	20	¾	10	6*	271	168 625 113	0.976	168 625 133	0.987
32	25	1	10	6*	481	168 625 114	1.135	168 625 134	1.155
40	32	1 ¼	10	6*	759	168 625 115	1.894	168 625 135	1.914
50	40	1 ½	10	6*	1263	168 625 116	3.341	168 625 136	3.371
63	50	2	10	5*	1728	168 625 117	3.900	168 625 137	3.928

d	D	D1_G	H	H1	H2	H3	H4	H5	H7	L	L2	M	e	Lift = Hx
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
20	68	⅜	101	14	12	60	24	16	43	124	25	M6	1.9	7
25	96	⅜	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	96	⅜	143	22	12	84	25	16	57	154	25	M6	2.9	13
40	120	⅜	173	26	15	99	26	26	69	174	45	M8	3.7	15
50	150	⅜	214	32	15	119	36	26	88	194	45	M8	4.6	19
63	150	⅜	226	39	15	132	36	26	88	224	45	M8	5.8	23



d (mm)	closest inch (inch)
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2

Electric & pneumatic actuators





Electric actuators

477



Pneumatic rotary actuators PA

479



Accessories for pneumatic rotary actuators

483



Pneumatic stroke actuators

484



Accessories for pneumatic stroke actuators

488

Electric actuators



Electric actuator type EA04

Type of actuator	Voltage	Code	Weight (kg)
10Nm	100-230V	198 151 480	0.900
10Nm	24V	198 151 481	0.900
20Nm	24-240V	198 151 492	1.500



Electric actuator type EA15/25/45/120/250

Model:

- Heating element, position feedback (Open/Close/ Middle)
- All: Adjustable heater and 7-segment error LED included
- EA15: control and position feedback open/close
- EA25 - 250: control open/close/middle; position feedback open/close/middle ready to operate
- cUL E247458
- IP68 Rating

Option:

- All: Fail-safe return unit
- EA25-250: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

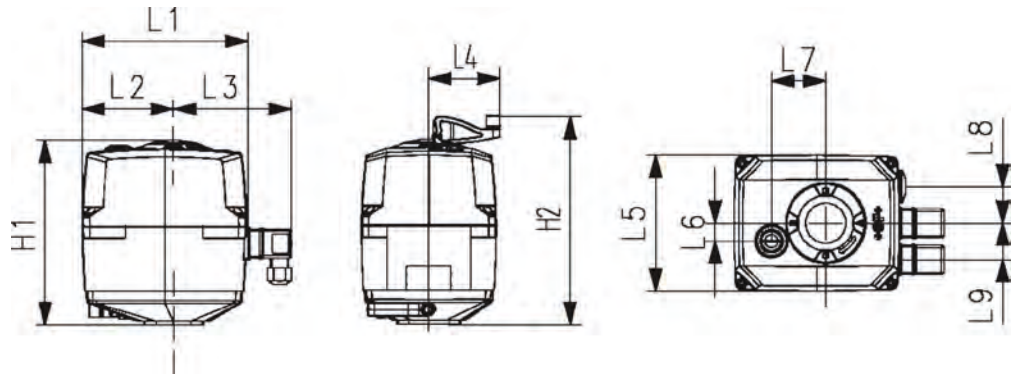
*with adapter 198 000 587 F05 / SW 11, 198 204 057 F05 / SW 14

Type of actuator	Voltage	Torque nominal	Torque maximal	Interfaces	Code
EA15	100-230V AC	10 Nm	20 Nm	F05 (SW 11/14)*	198 153 180
EA15	24V AC/DC	10 Nm	20 Nm	F05 (SW 11/14)*	198 153 181
EA25	100-230V AC	10 Nm	25 Nm	F05 (SW 11/14)*	198 153 182
EA25	24V AC/DC	10 Nm	25 Nm	F05 (SW 11/14)*	198 153 183
EA45	100-230V AC	20 Nm	45 Nm	F05 (SW 11/14)*	198 153 184
EA45	24V AC/DC	20 Nm	45 Nm	F05 (SW 11/14)*	198 153 185
EA120	100-230V AC	60 Nm	120 Nm	F07 (SW17)	198 153 186
EA120	24V AC/DC	60 Nm	120 Nm	F07 (SW17)	198 153 187
EA250	100-230V AC	100 Nm	250 Nm	F07 (SW22)	198 153 188
EA250	24V AC/DC	100 Nm	250 Nm	F07 (SW22)	198 153 189
EA15 cUL marked	100-230V AC	10 Nm	20 Nm	F05 (SW 11/14)*	198153200
EA15 cUL marked	24V AC/DC	10 Nm	20 Nm	F05 (SW 11/14)*	198 153 201
EA25 UL marked	100-230V AC	10 Nm	25 Nm	F05 (SW 11/14)*	198 153 202
EA25 cUL marked	24V AC/DC	10 Nm	25 Nm	F05 (SW 11/14)*	198 153 203
EA45 cUL marked	100-230V AC	20 Nm	45 Nm	F05 (SW 11/14)*	198 153 204
EA45 cUL marked	24V AC/DC	20 Nm	45 Nm	F05 (SW 11/14)*	198 153 205
EA120 cUL marked	100-230V AC	60 Nm	120 Nm	F07 (SW17)	198 153 206
EA120 cUL marked	24V AC/DC	60 Nm	120 Nm	F07 (SW17)	198 153 207
EA250 cUL marked	100-230V AC	100 Nm	250 Nm	F07 (SW22)	198 153 208
EA250 cUL marked	24V AC/DC	100 Nm	250 Nm	F07 (SW22)	198 153 209

Type of actuator	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)
EA15	137	158	122	83.0	77	64.3	122	16	49		33
EA15	137	158	122	83.0	77	64.3	122	16	49		33
EA25	167	188	150	82.5	107	64.3	122	16	49	33	33
EA25	167	188	150	82.5	107	64.3	122	16	49	33	33
EA45	167	188	150	82.5	107	64.3	122	16	49	33	33
EA45	167	188	150	82.5	107	64.3	122	16	49	33	33
EA120	190	212	150	82.5	107	64.3	122	16	49	33	33
EA120	190	212	150	82.5	107	64.3	122	16	49	33	33
EA250	200	221	150	82.5	107	64.3	122	16	49	33	33
EA250	200	221	150	82.5	107	64.3	122	16	49	33	33
EA15 cUL marked	167	189	150	78.0	108	64.0	122	16	49	33	33

table continued on the next page

Type of actuator	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)
EA15 cUL marked	167	189	150	78.0	108	64.0	122	16	49	33	33
EA25 UL marked	167	189	150	83.0	98	64.0	122	16	49	33	33
EA25 cUL marked	167	189	150	83.0	98	64.0	122	16	49	33	33
EA45 cUL marked	167	189	150	83.0	98	64.0	122	16	49	33	33
EA45 cUL marked	167	189	150	83.0	98	64.0	122	16	49	33	33
EA120 cUL marked	190	212	150	83.0	98	64.0	122	16	49	33	33
EA120 cUL marked	190	212	150	83.0	98	64.0	122	16	49	33	33
EA250 cUL marked	200	221	150	83.0	98	64.0	122	16	49	33	33
EA250 cUL marked	200	221	150	83.0	98	64.0	122	16	49	33	33



Accessory for electric actuators type EA15/25/45/120/250

Model:

- All accessory can be retrofitted to installed actuators of the same generation
- Accessory works with 100-230V and 24V version

Material	Description	EA25-250 Code	EA15 Code	EA15-250 Code
Fail-safe return unit integrated	Moves actuator in pre-defined safe position upon power loss, integrated battery pack	199 190 601	199 190 610	
Fail-safe return unit external	Moves actuator in pre-defined safe position upon power loss, voltage supply implemented externally	199 190 604	199 190 611	
Positioner	Continuous actuator control. 4-20mA or 0-10 V Input and 4-20 mA Feedback	199 190 603		
Monitoring	Parameter monitoring. Generates alarm upon reaching its set limitations. Prevents water hammers or indicates maintenance need for valve	199 190 602		
Profibus DP	Enables the actuator to be connected to a Profibus DP-V0 network	199 190 605		
Diagnostic Tool	Enables to read from the actuator main board and check configurations			199 190 600
EA Demobox	Demo Box for electric actuators type EA15/25/45/120/250 as well as for types EA11/21/31/42 Suitable for 24V & 100-230V Control Open/ Close/ Middle; Display for feedback end positions and ready to operate			199 190 607
Modbus RTU via RS485	Modbus RTU Interface Module for EA 25 - 250 to integrate GF actuators into Modbus systems which are based on RS-485.	199 190 617		



Pneumatic rotary actuators PA

Type PA11 / PA21



Pneumatic actuator type PA11/PA21
Fail safe to open (FO)

Inch (inch)	Type	DN-DN (mm)	Code	Weight (kg)
3/8 - 1	PA 11 FO	10 - 25	198 150 128	0.775
1 1/4 - 2	PA 21 FO	32 - 50	198 150 131	1.419



Pneumatic actuator type PA11/PA21
Double action (DA)

Inch (inch)	Type	DN-DN (mm)	Code	Weight (kg)
3/8 - 1	PA 11 DA	10 - 25	198 150 129	0.542
1 1/4 - 2	PA 21 DA	32 - 50	198 150 132	0.995



Pneumatic actuator type PA11/PA21
Fail safe to close (FC) with stroke limiter

Inch (inch)	Type	DN-DN (mm)	Code	Weight (kg)
3/8 - 1	PA 11 FC	10 - 25	198 150 144	0.854
1 1/4 - 2	PA 21 FC	32 - 50	198 150 147	1.609



Pneumatic actuator type PA11/PA21
Fail safe to open (FO) with stroke limiter

Inch (inch)	Type	DN-DN (mm)	Code	Weight (kg)
3/8 - 1	PA 11 FO	10 - 25	198 150 145	0.837
1 1/4 - 2	PA 21 FO	32 - 50	198 150 148	1.609



Pneumatic actuator type PA11/PA21
Double action (DA) with stroke limiter

Type	Inch (inch)	DN-DN (mm)	Code	Weight (kg)
PA 11 DA	3/8 - 1	10 - 25	198 150 146	0.647
PA 21 DA	1 1/4 - 2	32 - 50	198 150 149	1.185



Type PA30 / PA90



Pneumatic actuator type PA30 - PA90
Fail safe to close/fail safe to open (FC/FO)

* Only valid for butterfly valve type 240, 241, 242 and ball valve type 230 - 235

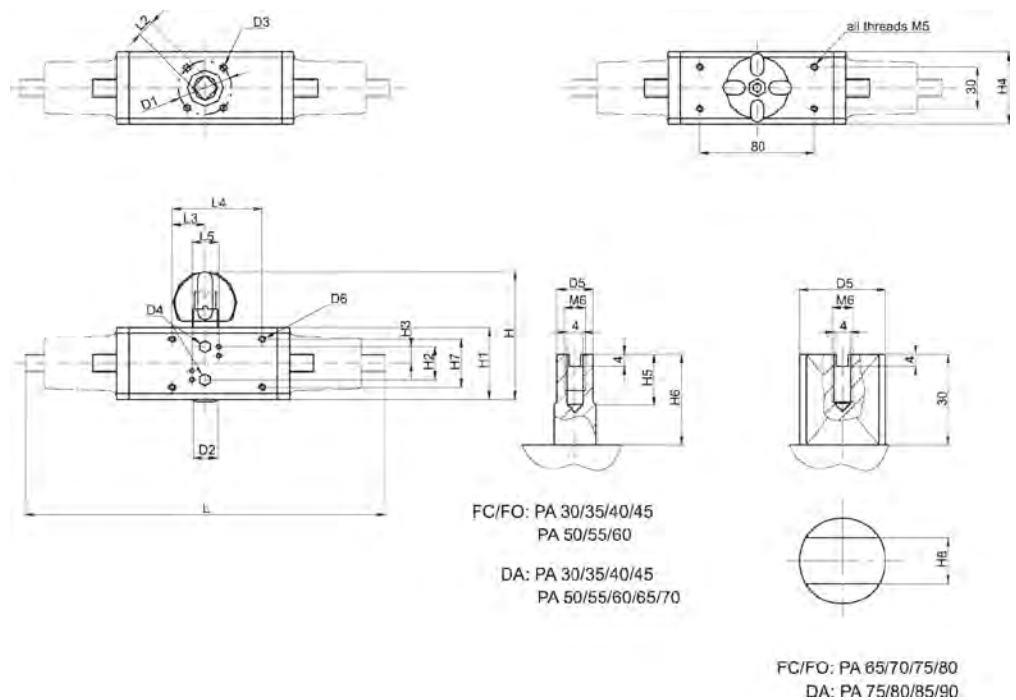
	Type	hard anodized Code	Weight (kg)	nickel plated Code	Weight (kg)	hard anodized with stroke limiter Code	Weight (kg)
	PA 30 FC/FO	198 800 757	2.022	198 800 034	2.400		
*	PA 30 FO	198 811 025	2.020				
	PA 35 FC/FO	198 800 037	2.673	198 800 052	2.400		
*	PA 35 FO	198 811 026	2.675				
	PA 40 FC/FO	198 800 728	3.602	198 800 004	3.598	198 800 017	3.598
*	PA 40 FO	198 811 027	3.623				
	PA 45 FC/FO	198 800 039	4.962	198 800 054	4.600		
*	PA45 FO	198 811 028	4.944				
	PA 50 FC/FO	198 800 729	6.921	198 800 005	6.921	198 800 018	6.921
*	PA50 FO	198 811 029	6.819				
	PA 55 FC/FO	198 800 041	9.354	198 800 056	9.400		
*	PA 55 FO	198 811 030	9.203				
	PA 60 FC/FO	198 800 730	11.371	198 800 006	12.895	198 800 019	12.895
	PA 65 FC/FO	198 800 043	15.900	198 800 058	15.900		
	PA 70 FC/FO	198 800 731	18.758	198 800 007	19.496	198 800 020	19.496
*	PA 70 FO	198 811 198	18.750				

	Type	epoxy coated Code	Weight (kg)
	PA 30 FC/FO	198 811 194	2.400
*	PA 30 FO		
	PA 35 FC/FO	198 800 029	2.400
*	PA 35 FO		
	PA 40 FC/FO	198 800 025	3.598
*	PA 40 FO		
	PA 45 FC/FO		
*	PA45 FO		
	PA 50 FC/FO	198 800 026	6.921
*	PA50 FO		
	PA 55 FC/FO	198 811 190	9.424
*	PA 55 FO		
	PA 60 FC/FO		
	PA 65 FC/FO		
	PA 70 FC/FO	198 800 028	19.496
*	PA 70 FO		

	Type	D1 (mm)	D2 (mm)	D3[M] (mm)	D4 (inch)	D5 (mm)	L (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	H (mm)
	PA 30 FC/FO	F04	42	30	M5x9	10	272	11	35	70	32	102
*	PA 30 FO	F04	42	30	M5x9	1/8	272	11	35	70	32	102
	PA 35 FC/FO	F05	50	35	M6x11	12	336	14	35	70	32	111
*	PA 35 FO	F05	50	35	M6x11	1/8	336	14	35	70	32	111
	PA 40 FC/FO	F05	50	35	M6x11	12	364	14	35	70	32	129
*	PA 40 FO	F05	50	35	M6x11	1/8	364	14	35	70	32	129
	PA 45 FC/FO	F07	70	55	M8x15	1/8	403	17	35	70	32	139
*	PA45 FO	F07	70	55	M8x15	1/8	403	17	35	70	32	139
	PA 50 FC/FO	F07	70	55	M8x15	15	418	17	35	70	32	149
*	PA50 FO	F07	70	55	M8x15	1/8	418	17	35	70	32	149
	PA 55 FC/FO	F10	102	70	M10x17	19	478	22	35	70	32	161
*	PA 55 FO	F10	102	70	M10x17	1/8	478	22	35	70	32	161

Type		D1 (mm)	D2 (mm)	D3[M] (mm)	D4 (inch)	D5 (mm)	L (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	H (mm)
PA 60 FC/FO	F10	102	70	M10x17	⅜	19	497	22	35	70	32	173
PA 65 FC/FO	F12	125	85	M12x21	⅜		617	27			32	191
PA 70 FC/FO	F12	125	85	M12x21			652	27			32	196
* PA 70 FO	F12	125	85	M12x21	⅜		652	27			32	196

Type	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	H8
PA 30 FC/FO	70	21	18	65	13	20	36	
* PA 30 FO	70	21	18	65	13	20	36	
PA 35 FC/FO	78	21	18	72	13	20	36	
* PA 35 FO	78	21	18	72	13	20	36	
PA 40 FC/FO	86	25	21	80	13	30	36	
* PA 40 FO	86	25	21	80	13	30	36	
PA 45 FC/FO	96	25	21	90	16	30	36	
* PA45 FO	96	25	21	90	16	30	36	
PA 50 FC/FO	106	25	26	100	17	30	36	
* PA50 FO	106	25	26	100	17	30	36	
PA 55 FC/FO	118	25	25	112	19	30	36	
* PA 55 FO	118	25	25	112	19	30	36	
PA 60 FC/FO	130	25	32	124	19	30	36	
PA 65 FC/FO	148	24	34	137				22
PA 70 FC/FO	153	24	38	145				24
* PA 70 FO	153	24	38	145				24



Pneumatic actuator type PA30 - PA90 Double acting (DA)

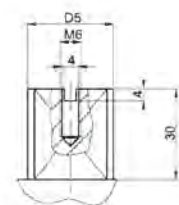
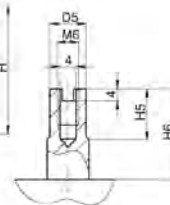
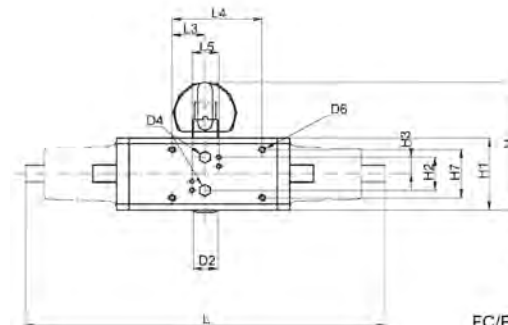
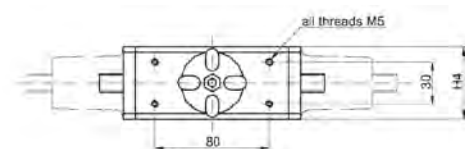
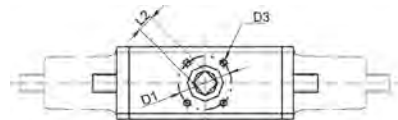
Type	hard anodized Code	Weight (kg)
PA 30 DA	198 800 737	1.004
PA 35 DA	198 800 758	1.346
PA 40 DA	198 800 759	1.731
PA 45 DA	198 800 040	2.155
PA 50 DA	198 800 733	2.981
PA 55 DA	198 800 042	3.892
PA 60 DA	198 800 734	5.647
PA 65 DA	198 800 044	7.293
PA 70 DA	198 800 735	9.008

table continued on the next page

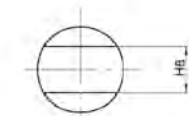
Type	hard anodized Code	Weight (kg)
PA 75 DA	198 800 046	12.000
PA 80 DA	198 800 048	14.000
PA 85 DA	198 800 050	21.527
PA 90 DA	198 800 051	25.400

H7	D5	H6	L4	L3	H5	D3[M]		D1	D2	D4	L1	L2	L5	H	H1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)
36	9	20	70	35	10	M5x9	F03	36	25	⅞	169	9		92	60
36	10	20	70	35	13	M5x9	F03	42	30	⅞	183	11		98	66
36	10	20	70	35	13	M5x9	F05	42	30	⅞	190	11		102	70
36	12	20	70	35	13	M6x11	F05	50	35	⅞	225	14		111	78
36	12	30	70	35	13	M6x11	F05	50	35	⅞	240	14		129	86
36	15	30	70	35	16	M8x15	F07	70	55	⅞	269	17		139	96
36	15	30	70	35	17	M8x15	F07	70	55	⅞	314	17		149	106
36	19	30	70	35	19	M10x17	F10	102	70	⅞	336	22		161	118
36	19	30	70	35	19	M10x17	F10	102	70	⅞	365	22		173	130
						M12x21	F12	125	85	⅞	402	27	32	191	148
						M12x21	F12	125	85	⅞	445	27	32	197	153
						M16x25	F14	140	100	⅞	529	36	32	229	186
						M16x25	F14	140	100	⅞	581	36	32	241	198

H2	H3	H4	H8
(mm)	(mm)	(mm)	(mm)
25	12	55	
25	13	60	
21	18	65	
21	18	72	
25	21	80	
25	21	90	
25	26	100	
25	25	112	
25	32	124	
24	34	137	22
24	38	145	24
24	43	166	27
24	44	180	32



FC/FO: PA 30/35/40/45
PA 50/55/60
DA: PA 30/35/40/45
PA 50/55/60/65/70



FC/FO: PA 65/70/75/80
DA: PA 75/80/85/90

Accessories for pneumatic rotary actuators



For pneumatic actuators type PA11 - PA90
Namur mounting flange

No	Code	Weight (kg)
3	199 190 281	0.240



For pneumatic actuators type PA30-PA55 and PA11/21
Namur connecting plate

- PA30 - PA55 FC/FO, PA30 - PA65 DA



DN (mm)	Series PA11/21 Code	Weight (kg)	Series PA30-55 Code	Weight (kg)
15	199 190 378	0.054	199 190 275	0.114
20	199 190 378	0.054	199 190 275	0.114
25	199 190 378	0.054	199 190 275	0.114
32	199 190 378	0.054	199 190 275	0.114
40	199 190 378	0.054	199 190 275	0.114
50	199 190 378	0.054	199 190 275	0.114

Pneumatic stroke actuators



Accessories and spare parts for DIASTAR Seal set complete

DN (mm)	Pos	Serie 028 FC Serie 025 FO/DA Code	Weight (kg)	Serie 025 FC Code	Weight (kg)
15	5	198 000 332	0.005	198 000 333	0.006
20	5	198 000 333	0.006	198 000 333	0.006
25	5	198 000 333	0.006	198 000 334	0.005
32	5	198 000 334	0.005	198 000 335	0.023
40	5	198 000 335	0.023	198 000 336	0.027
50	5	198 000 335	0.023	198 000 336	0.027



Accessories and spare parts for DIASTAR Diaphragms for DIASTAR

Note:

*Diaphragm in HP quality

DN (mm)	d (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	NBR Code	Weight (kg)
15	20	161 481 022	0.013	161 481 092	0.022	161 311 710	0.015
20	25	161 481 023	0.020	161 481 093	0.037	161 311 711	0.030
25	32	161 481 024	0.039	161 481 094	0.064	161 311 712	0.040
32	40	161 481 025	0.058	161 481 095	0.096	161 311 713	0.050
40	50	161 481 026	0.071	161 481 096	0.121	161 311 714	0.070
50	63	161 481 027	0.116	161 481 097	0.186	161 311 715	0.130
65	75	161 481 028	0.182	161 481 098	0.236	161 480 231	0.200
80	90	161 481 029	0.258	161 481 099	0.328	161 480 232	0.290
100	110	161 481 030	0.431	161 481 100	0.560	161 480 233	0.450
150	160	161 482 754	1.100	161 481 102	1.430	161 482 751	2.500

PTFE/EPDM Code	Weight (kg)	PTFE/FKM Code	Weight (kg)	PTFE/EPDM HP Code	Weight (kg)
161 311 698	0.022	161 481 926	0.032	161 484 452	0.025
161 311 699	0.033	161 481 927	0.055	161 484 453	0.047
161 311 700	0.053	161 481 928	0.079	161 484 454	0.060
161 311 701	0.053	161 481 929	0.091	161 484 455	0.083
161 311 702	0.104	161 481 930	0.145	161 484 456	0.106
161 311 703	0.155	161 481 931	0.220	161 484 457	0.150
161 480 240	0.252	161 481 932	0.354	161 484 458	0.280
161 480 241	0.394	161 481 933	0.370	161 484 459	0.390
161 480 242	0.637	161 481 934	0.877	161 484 460	0.630
*161482760	1.421			*161482760	1.421



Accessories and spare parts for DIASTAR Compression set complete Consisting of compressor and diaphragm holder

DN (mm)	Size (inch)	d (mm)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
15	½	20	198 000 320	0.039	198 000 326	0.021
20	¾	25	198 000 321	0.042	198 000 327	0.048
25	1	32	198 000 322	0.068	198 000 328	0.063
32	1 ¼	40	198 000 323	0.091	198 000 329	0.055
40	1 ½	50	198 000 324	0.079	198 000 330	0.088

DN (mm)	Size (inch)	d (mm)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
50	2	63	198 000 325	0.071	198 000 331	0.132
65	2 ½	75	198 000 268	0.135	198 000 269	0.135
80	3	90	198 000 270	0.444	198 000 271	0.350
100	4	110	198 000 272	0.493	198 000 273	0.489
150	6	160	198 000 274	1.466	198 000 275	1.466



Accessories and spare parts for DIASTAR Indicator cap for DIASTAR

d (mm)	DN (mm)	Pos	Serie 025 FC Code	Weight (kg)	Serie 025 FO Code	Weight (kg)	Serie 025 DA Code	Weight (kg)
75	65	4	198 806 376	0.022	198 806 376	0.022	198 806 376	0.022
90	80	4	198 806 376	0.022	198 806 376	0.022	198 806 376	0.022
110	100	4	198 806 376	0.022	198 806 376	0.022	198 806 376	0.022
160	150	4	198 806 376	0.022	198 806 376	0.022	198 806 376	0.022



Pneumatic actuator DIASTAR Series 028 FC

Size (inch)	DN (mm)	d (mm)	Size	for EPDM Code	Weight (kg)	for PTFE/ EPDM Code	Weight (kg)
½	15	20	1	198 150 091	0.270	198 150 097	0.295
¾	20	25	2	198 150 126	0.705	198 150 126	0.705
1	25	32	2	198 150 093	0.656	198 150 098	1.000
1 ¼	32	40	3	198 150 094	1.380	198 150 124	1.380
1 ½	40	50	4	198 150 095	2.172	198 150 099	2.100
2	50	63	4	198 150 125	3.000	198 150 125	3.000



Pneumatic actuator DIASTAR Series 025 FC

Size (inch)	DN (mm)	Size	d (mm)	for EPDM Code	Weight (kg)	for PTFE/ EPDM Code	Weight (kg)
2 ½	65		75	198 150 736	3.700	198 150 736	3.700
3	80		90	198 150 737	13.144	198 150 737	13.144
4	100		110	198 150 738	14.295	198 150 738	14.295
6	150		160	198 150 739	21.500		



Pneumatic actuator DIASTAR Series 025 FO

Size	DN (mm)	Size (inch)	d (mm)	for PTFE/ EPDM and EPDM Code	Weight (kg)
	65	2 ½	75	198 150 746	3.700
	80	3	90	198 150 747	9.500
	100	4	110	198 150 748	3.700
	150	6	160	198 150 749	3.700



Pneumatic actuator DIASTAR Series 025 DA

DN (mm)	Size (inch)	d (mm)	Size	for EPDM Code	Weight (kg)	for PTFE/ EPDM Code	Weight (kg)
65	2 ½	75		198 150 756	10.440	198 150 756	10.440
80	3	90		198 150 757	3.700	198 150 757	3.700
100	4	110		198 150 758	3.700	198 150 758	3.700
150	6	160		198 150 759	3.700	198 150 759	3.700



Diaseptic DIASTAR Type 025 full plastic actuator PPS GF40

DN (mm)	FC Code	Weight (kg)	FO Code	Weight (kg)	DA Code	Weight (kg)
15	198 151 126	0.785	198 151 136	0.311	198 151 142	0.286
20	198 151 127	0.800	198 151 137	0.623	198 151 143	0.590
25	198 151 128	1.611	198 151 138	0.680		
32	198 151 129	2.873	198 151 139	1.256		
40	198 151 130	4.208	198 151 140	2.253		
50	198 151 131	4.819	198 151 141	2.399		



Diaseptic DIASTAR Type 025 with stainless steel intermediate part

DN (mm)	FC size 1 Code	Weight (kg)	FO Code	Weight (kg)	DA Code	Weight (kg)
8	198 151 148	0.540	198 151 156	0.502	198 151 163	0.484
15	198 151 149	0.611	198 151 157	0.563	198 151 164	0.545
20	198 151 151	1.358	198 151 158	1.178	198 151 165	1.148
25	198 151 152	2.262	198 151 159	2.223	198 151 166	2.138
40	198 151 154	5.813	198 151 161	5.817	198 151 168	5.560
50	198 151 155	6.087	198 151 162	6.610	198 151 169	6.353



Diaseptic DIASTAR
Diaseptic type 028 plastic acuator PPS GF40

DN (mm)	FC Code	Weight (kg)
15	198 151 120	0.352
20	198 151 121	0.730
25	198 151 122	0.837
32	198 151 123	1.580
40	198 151 124	2.663
50	198 151 125	2.959

Accessories for pneumatic stroke actuators



For diaphragm valve type DIASTAR
Min./max. stroke limiter/manual override

At DN100 - 150 only max. Lift limiter

DN-DN (mm)	Ten/028 FC Code	Ten Plus/ Sixteen/025 FC Code	Ten/025 FO/DA Code	Weight (kg)
-- 15	199 190 381	199 190 382	199 190 381	0.057
-- 20	199 190 382	199 190 382	199 190 382	0.068
-- 25	199 190 382	199 190 383	199 190 382	0.068
-- 32	199 190 383	199 190 384	199 190 383	0.120
-- 40	199 190 384	199 190 385	199 190 384	0.143
-- 50	199 190 384	199 190 385	199 190 384	0.143
65 - 80		199 190 318	199 190 318	0.500
100 - 150		199 190 319	199 190 319	0.500



NAMUR connector plate for DIASTAR DN15-50

DN (mm)	Pos	Ten/028 FC Code	Weight (kg)	Sixteen/025 FC Code	Weight (kg)	Ten/025 FO/DA Code	Weight (kg)
15	2	199 190 378	0.054	199 190 378	0.054	199 190 378	0.054
20	2	199 190 378	0.054	199 190 378	0.054	199 190 378	0.054
25	2	199 190 378	0.054	199 190 378	0.054	199 190 378	0.054
32	2	199 190 378	0.054	199 190 379	0.354	199 190 378	0.054
40	2	199 190 379	0.354	199 190 379	0.354	199 190 379	0.354
50	2	199 190 379	0.354	199 190 379	0.354	199 190 379	0.354

Fusion machines and tools



Fusion machines and tools

IR and BCF fusion machines



IR-110 A Automated Fusion Machine

Model:

- Fully equipped automated infrared fusion machine with integrated working table for use under clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP grey PROGEF (Standard/Plus), PP-n PROGEF Natural, PE100 ecoFIT, IR PVC-U
- Dimensions d20-110 mm
- User friendly touch-screen interface 12.1" with various languages
- 4 USB interfaces, LAN Ethernet interface, 230 V Output
- Automated facer, clamping slide and heater
- Integrated video camera and temperature sensors
- Movable clamping units
- Clamping inserts d20-90 mm (8 pcs. per dimension), **not for PVC-U metric**
- End caps PE d20-110 mm (4 pcs. per dimension)
- Shavings collection tray
- Transport box with integrated pallet
- 1-phase AC (50/60 Hz) 230V L/N/PE
- Power supply cable 230V EU Standard
- Torx key (T10) for facing knives
- Cleaning brush
- Label printer

Note:

Clamping inserts PVC-U metric on request

d-d (mm)	Code	Weight (kg)
20 - 110	790 164 001	250



IR-400 A Automated Fusion Machine (only a rental pool machine)

Model:

- Fully equipped automated infrared fusion machine and working table designed for industrial applications and clean room conditions
- Welding of PVDF SYGEF Plus
- Dimensions d355-400mm
- Automated facer, clamping slide and heater
- User friendly touch-screen interface 12.1" with various languages
- 4 USB interfaces, LAN Ethernet interface, 230 V Output
- Integrated video camera and temperature sensors
- Clamping inserts d355-400 mm (8 pcs. per dimension)
- End caps PE d355-400 mm (4 pcs. per dimension)
- Transport cases (fusion machine and working table)
- 3-phase AC (50/60 Hz) 400 V L1/L2/L3/N/PE
- Set of facing knives (2 pcs.)
- Torx key (T25) for facing knife
- Hexagon keys (10 mm + 8 mm)
- Cleaning brush
- Label printer (incl. ribbon 24 mm)

d-d (mm)	Code	Weight (kg)
355 - 400	790 166 001	1273.000



IR-63 Plus Fusion Machine (without PVC-U parameter)

Model:

- Fully-equipped manually operated infrared fusion machine with integrated remote welding unit
- Welding of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PP-n PROGEF Natural, PE100 ecoFIT, PFA
- Dimensions d20-63 mm
- Monochrome display with icons and various languages
- 2 USB interfaces
- Heating and facing element
- Clamping slide with movable clamping units
- Clamping inserts d20-63 mm (8 pcs. per dimension), **not for PVC-U metric**
- End caps PE d20-63 mm (4 pcs. per dimension)
- Pipe stop
- Clean-room compatible accessory tray with tools
- Transport box
- 1-phase AC (50/60 Hz) 230V L/N/PE
- Power supply cable 230 V
- Extension cable for clamping slide, heater and facing tool for remote welding (5m each)
- Label printer

Note:

Clamping inserts PVC-U metric on request

Clamping inserts PFA (inch) on request

Clamping inserts CONTAIN-IT Plus on request

d-d (mm)	Code	Weight (kg)
20 - 63	790 131 005	60



IR-110 Plus Fusion Machine (without PVC-U parameter)

Model:

- Fully-equipped manually operated infrared fusion machine for use under clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PP-n PROGEF Natural, PE100 ecoFIT, PFA
- Dimensions d20-110 mm
- Monochrome display with icons and various languages
- 2 USB interfaces
- Heating and facing element
- Clamping slide with movable clamping units
- Clamping inserts d20-90 mm (8 pcs. per dimension)
- End caps PE d20-110 mm (4 pcs. per dimension)
- Pipe stop
- Clean-room compatible accessory tray with tools
- Transport box with integrated pallet
- 1-phase AC (50/60 Hz) 230V L/N/PE
- Power supply cable 230V
- Label printer

Note:

Clamping inserts PFA (inch) on request

Clamping inserts CONTAIN-IT Plus on request

d-d (mm)	Code	Weight (kg)
20 - 110	790 132 001	110



IR-225 Plus Fusion Machine

Model:

- Fully-equipped manually operated infrared fusion machine with integrated working table for use under clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PP-n PROGEF Natural, PE100 ecoFIT
- Dimensions d63-225 mm
- Monochrome display with icons and various languages
- 2 USB interfaces
- Heating and facing element
- Clamping slide with movable clamping units
- Cooling fan
- Clamping inserts d63-225 mm (8 pcs. per dimension)
- End caps PE d63-225 mm (4 pcs. per dimension)
- Pipe stop
- Transport box with integrated pallet (stainless steel)
- 1-phase AC (50/60 Hz) 230V L/N/PE or 3-phase AC (50/60 Hz) 400V/230VL1/L2/L3/N/PE
- Connecting cable 400V - 230V
- Additional tools
- Label printer

Note:

Clamping inserts CONTAIN-IT Plus on request

d-d (mm)	Code	Weight (kg)
63 - 225	790 133 009	453



BCF-63 Plus Fusion Machine

Model:

- Fully-equipped manually operated fusion machine with integrated remote welding unit for bead and crevice free jointing for use under clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), PP-n PROGEF Natural
- Dimensions d20-63 mm
- Monochrome display with icons and various languages
- 2 USB interfaces
- Heating stations d20-63 mm (6 pcs.)
- Facing tool (1 pcs.) incl. facing inserts d20-63 mm (6 pcs.)
- Facing tool support
- Movable clamping units
- Cooling fan
- Clamping units (2 pcs.) with clamping inserts d20-63 mm (4 pcs. per dimension)
- Supporting tools d20-63 mm (2 pcs.)
- Transport box with integrated pallet
- 1-phase AC (50/60 Hz) 115 / 230 V L/N/PE
- Extension cable for remote welding (8m)
- Bladder Remove Tool (BReT)
- Hose box incl. air hose (16m)
- Hose cutter
- Label printer

Note:

Bladders to be ordered separately.

d-d (mm)	Code	Weight (kg)
20 - 63	790 121 002	153.000



BCF-110 Plus Fusion Machine

Model:

- Fully-equipped manually operated fusion machine with integrated remote welding unit for bead and crevice free jointing for use under clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), PP-n PROGEF Natural
- Dimensions d20-110 mm
- Monochrome display with icons and various languages
- 2 USB interfaces
- Heating stations d20-110 mm (9 pcs.)
- Facing tool with facing inserts d20-63 mm (6 pcs.)
- Facing tool with facing inserts d75-110 mm (3 pcs.)
- Facing tool support
- Movable clamping units
- Cooling fan
- Clamping units (2 pcs.) with clamping inserts d20-63 mm (4 pcs. per dimension)
- Clamping units (2 pcs.) with clamping inserts d75-110 mm (4 pcs. per dimension)
- Adapter for clamping unit d75-110 mm (2 pcs.)
- Supporting tools d20-63 mm (2 pcs.)
- Supporting tools d75-110 mm (2 pcs.)
- Transport box with integrated pallet
- 1-phase AC (50/60 Hz) 115 / 230 V L/N/PE
- Extension cable for remote welding (8m)
- Bladder Remove Tool (BReT)
- Hose box incl. air hose (16m)
- Hose cutter
- Label printer

Note:

Bladders to be ordered separately.

d-d (mm)	Code	Weight (kg)
20 - 110	790 121 001	188.000



Bladder BCF Plus for PROGEF Natural PP-n

- d20-63: Only suitable for welding PROGEF Natural PP-n. **Blue bladder head!**
- d75-110: Suitable for welding PROGEF Natural PP-n and SYGEF PVDF. **Silver bladder head!**

d (mm)	Code	Weight (kg)	Pieces
20	790 122 091	0.038	1
25	790 122 092	0.021	1
32	790 122 093	0.040	1
40	790 122 094	0.050	1
50	790 122 095	0.105	1
63	790 122 096	0.138	1
75	790 121 047	0.203	1
90	790 121 048	0.265	1
110	790 121 049	0.552	1



IR-63 M Standard Fusion Machine (without extension cable set & CONNECT box)

Model:

- Manually operated infrared fusion machine with integrated remote welding unit
- Welding of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PP-n PROGEF Natural, PE100 ecoFIT, PVC-U metric & PFA inch
- Dimensions d20-63 mm
- A safety glass protected 7" touchscreen
- 2x USB-A & 2x USB-C ports
- Clamping slide with movable & exchangeable clamping units
- Half shells d20-50 mm (8 pcs. per dimension)
- End caps PE d20-63 mm (4 pcs. per dimension)
- Pipe stop fix, 2mm facing distance
- Pipe stop adjustable, 0.5-3mm facing distance
- 1-phase AC (50/60 Hz) 230V L/N/PE
- Power supply cable 230 V
- Label printer

Option:

- Half shells PFA inch
- Extension cable set for remote weldings
- CONNECT Welding Data Box

d-d (mm)	Code	Weight (kg)
20 - 63	790 180 001	54.7



IR-63 M Complete Fusion Machine (with extension cable set & CONNECT box)

Model:

- Manually operated infrared fusion machine with integrated remote welding unit
- Welding of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PP-n PROGEF Natural, PE100 ecoFIT, PVC-U metric & PFA inch
- Dimensions d20-63 mm
- A safety glass protected 7" touchscreen
- 2x USB-A & 2x USB-C ports
- Clamping slide with movable & exchangeable clamping units
- Half shells d20-50 mm (8 pcs. per dimension)
- End caps PE d20-63 mm (4 pcs. per dimension)
- Pipe stop fix, 2mm facing distance
- Pipe stop adjustable, 0.5-3mm facing distance
- 1-phase AC (50/60 Hz) 230V L/N/PE
- Power supply cable 230 V
- Label printer
- Extension cable set
- CONNECT Welding Data box

Option:

- Half shells PFA inch

d-d (mm)	Code	Weight (kg)
20 - 63	790 180 003	58.5



IR-315 A Automated Fusion Machine

Model:

- Fully equipped automated infrared fusion machine and working table designed for industrial applications and clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), PP grey PROGEF (Standard/Plus), PE100 ecoFIT
- Dimensions d110-315 mm
- Automated facer, clamping slide and heater
- Integrated cooling system
- User friendly touch-screen interface 12.1" with various languages
- 4 USB interfaces, LAN Ethernet interface, 230 V Output
- Integrated video camera and temperature sensors
- Clamping inserts d110-280 mm (8 pcs. per dimension)
- End caps PE d110-315 mm (4 pcs. per dimension)
- Transport cases with integrated euro-pallette (fusion machine and working table)
- 3-phase AC (50/60 Hz) 400 V L1/L2/L3/N/PE
- Set of facing knives (2 pcs.)
- Torx key (T25) for facing knife
- Hexagon keys (10 mm + 8 mm)
- Fork key (24 mm)
- Cleaning brush
- Label printer (incl. ribbon 24 mm)

d-d (mm)	Code	Weight (kg)
110 - 315	790 165 001	1049.000



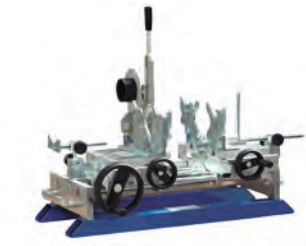
BCF-63 Plus Basic Machine

Model:

- Manually operated fusion machine with integrated remote welding unit for bead and crevice free jointing for use under clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), PP-n PROGEF Natural
- Dimensions d20-63 mm
- Monochrome display with icons and various languages
- 2 USB interfaces
- Facing tool (1 pcs.) incl. facing inserts d20-63 mm (6 pcs.)
- Facing tool support
- Movable clamping units
- Cooling fan
- Clamping units (2 pcs.) with clamping inserts d20-63 mm (4 pcs. per dimension)
- Supporting tools d20-63 mm (2 pcs.)
- Transport box
- 1-phase AC (50/60 Hz) 115 / 230 V L/N/PE
- Extension cable for remote welding (8m)
- Bladder Remove Tool (BReT)
- Hose box incl. air hose (16m)
- Hose cutter

d-d (mm)	Code	Weight (kg)
20 - 63	790 121 004	144.000

Butt and socket fusion machines



SG 125
Socket fusion machine

- Portable heating element - socket fusion machine for use in the workshop and on job sites.
- For fusion jointing of PP and PE pipes and fittings
- **BASE MACHINE**
- Compact, sturdy design, distortion-free machine bed
- Handwheel with torque locking mechanism for the slide movement
- Fast selection of insertion depth according to the pipe dimension
- **HEATER**
- With electronic temperature control
- High temperature accuracy over the entire heating surface
- **ADDITIONAL STANDARD EQUIPMENT**
- Universal, left and right prismatic clamping devices, complete, for clamping pipe and fittings.
- Additional set of prismatic clamping devices for outer clamping of pipes available as an option.
- V-shaped pipe support
- Back stop
- Machine specific tool set
- Timer to clock fusion times
- Including transport packaging, without accessories

d-d (mm)	Performance	Code	Weight (kg)
16 - 125	230 V/1500 W	790 310 034	65.000
16 - 125	115 V/1500 W	790 310 036	65.000



SG 160
Combined butt and socket fusion machine
for industrial applications

Mobile, very compact and universal plastic fusion machine for PP, PE and PVDF pipes and fittings for use in the workshop and on job sites. Butt fusion d 32 - 160 mm, all pressure ratings up to PE/PP SDR 11; PVDF SDR 21. Socket fusion d 16 - 110 mm

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Hardened and hard chrome-plated guide shafts for extreme loads
- All clamping possibilities for base clamping plates, pipe supports, back stop and prismatic clamping devices
- **PLANER**
- Planing device made of light cast aluminium
- Optimized cutting geometry for even and chatter-free planing
- Powerful parallel planer for single or double-sided facing of pipe ends
- Integrated pick up for easy mounting of calibration tools for machining of pipe ends in socket fusion
- **HEATER**
- High performance, electronically controlled heating element
- High accuracy of +/- 4°C over the entire heating surface
- Exact LCD adjustment of heater temperature
- High-quality, easy to replace, non-stick PTFE fabric for the heater
- **ADDITIONAL STANDARD EQUIPMENT**
- Including complete set of accessories as: 4 clamps for butt fusion with reduction inserts d 32-160 mm, 2 prismatic clamps for socket fusion with V-shaped supports and calibration tools for machining of pipe ends d 16 - 110 mm, heating spigots and bushings for socket fusion d 16 - 110 mm, tempil sticks 253°C and 274°C
- Timer to clock fusion times
- Including transport packaging and machine specific tool set

d-d (mm)	Performance	Code	Weight (kg)
16 - 160	230 V/2200 W	790 103 004	223.000

MSE 63/MSE 110 Socket fusion tool



- For fusion jointing of PP and PE pipes and fittings
- Electronic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- The 115 V type is available both in the version with plug (US standard NEMA 5-15P) and in the version without plug, to make possible for the customer to assemble any other type of plug, compatible with the tool technical specifications, under his own responsibility.

d-d (mm)	Type	Performance	Code	Weight (kg)
16 - 63	MSE 63 E with Schuko plug	230 V/800 W	790 105 082	1.800
16 - 63	MSE 63 E without plug	115 V/800 W	790 105 097	2.145
16 - 63	MSE 63 E with US plug	115 V/800 W	790 105 164	2.200
16 - 110	MSE 110 E with Schuko plug	230 V/1500 W	790 105 084	3.200
16 - 110	MSE 110 E without plug	115 V/1500 W	790 105 127	3.200
16 - 110	MSE 110 E with US plug	115 V/1500 W	790 105 175	3.250

MSE 63/MSE 110 Socket fusion toolset



- For fusion jointing of PP and PE pipes and fittings
- All devices equipped with on/off switch, mains and temperature control lamp
- Electronic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Heating bushes and spigots
- Available as a complete set in a practical metal case
- Table clamp
- Floor stand for MSE 63
- Allen screws and key
- The 115 V type is available both in the version with plug (US standard NEMA 5-15P) and in the version without plug, to make possible for the customer to assemble any other type of plug, compatible with the tool technical specifications, under his own responsibility.

d-d (mm)	Type	Performance	Code	Weight (kg)
16 - 63	MSE 63 E with Schuko plug	230 V/800 W	790 105 086	8.700
16 - 63	MSE 63 E without plug	115 V/800 W	790 105 099	9.979
16 - 63	MSE 63 E with US plug	115 V/800 W	790 105 123	10.050
16 - 110	MSE 110 E with Schuko plug	230 V/1500 W	790 105 088	16.523
16 - 110	MSE 110 E without plug	115 V/1500 W	790 105 129	18.000
16 - 110	MSE 63 E with US plug	115 V/1500 W	790 105 135	18.050



IM 160

Butt fusion machine for industrial applications

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Compact and sturdy design for use in the workshop and on jobsites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Dimensional range: d32 - 160 mm, from SDR 41 up to SDR 11 with PE, PP d160 mm.
- **BASE MACHINE**
 - High precision, distortion-free and robust machine base
 - Handwheel for easy moving of machine carriage
 - Exact pressure adjustment via direct spring load transfer
 - Fast-locking base clamping plates, right and left, d 160 mm
 - Weight (including planer and heater): 53 kg
- **PLANER**
 - Load transfer via robust chain drive
 - Optimized cutting geometry for even and chatter-free planing
 - Swivel mounted for ergonomic handling
 - Mechanical stop to provide single sided planing and defined facing depth
- **HEATER**
 - High performance, electronically controlled heating element
 - High accuracy of +/- 4°C over the entire heating surface
 - High quality, non-stick PTFE coating
 - Metal sheet cover to protect the heating plate in idle position
 - The heating element can be used as manual fusion tool
- **ADDITIONAL STANDARD EQUIPMENT**
 - Complete reduction clamping inserts set d 32 - 140 mm
 - V-shaped pipe support with inserts d 32 - 140 mm
 - Timer to clock fusion times
 - Machine specific tool set
 - Wooden transport crate, usable as working bench, also available as special version made of coated plywood with aluminium profiles, optimized design for pallet truck handling and storage drawer for reduction inserts and tools

d-d (mm)	Performance	Description	Code	Weight (kg)
32 - 160	230 V/1700 W	Standard transport crate	790 141 001	123.000
32 - 160	230 V/1700 W	Special transport crate	790 141 003	157.000
32 - 160	230 V/1700 W	Standard transport crate, Swiss plug	790 141 011	123.000
32 - 160	230 V/1700 W	Special transport crate, Swiss plug	790 141 012	157.000
32 - 160	115 V/1700 W	Special transport crate	790 141 009	157.000
32 - 160	115 V/1700 W	Standard transport crate	790 141 008	123.000



IM 315

Butt fusion machine for industrial applications

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range for straight jointing: d90-315 mm, from SDR 41 up to SDR 11 with PE, PP d315 mm. Limitations in the dimensional range are to be considered for angular jointing, depending on the angle (refer to user's manual).
- **BASE MACHINE**
 - High precision, distortion-free and robust machine base
 - Integrated swivel tables for angular jointing up to 30° (2x15°)
 - Handwheel for easy moving of machine carriage
 - Exact pressure adjustment via direct spring load transfer
 - Fusion pressure is maintained with a user friendly fast-locking handle
 - Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
 - Optional outer, horizontally removable clamping devices available
 - Weight (including planer and heater): 169 kg
- **PLANER**
 - Optimized cutting geometry for even and chatter-free planing
 - Swivel mounted for ergonomic handling
 - Mechanical stop to provide single sided planing and defined facing depth
 - Integrated safety switch to prevent unintentional start-up
 - Self-locking mechanism in working position
- **HEATER**
 - High-performance and precision heater with electronic temperature control (2500W)
 - High accuracy of +/- 4°C over the entire heating surface
 - High quality, non-stick PTFE coating
 - Pull-off mechanism to automatically detach the heating plate from pipe ends
 - Metal sheet cover to protect the heating plate in idle position
 - Integrated thermometer for fast visual check of plate temperature
- **ADDITIONAL STANDARD EQUIPMENT**
 - Reduction clamping inserts set d 90-315 mm
 - Pipe supports for picking up reduction supporting inserts d 90-315 mm
 - Reduction pipe supporting inserts set d 90-315 mm
 - Timer to clock fusion times
 - Machine specific tool set

d-d (mm)	Performance	Description	Code	Weight (kg)
90 - 315	230 V / 3500 W	Without transport crate	790 143 005	229.000
90 - 315	230 V / 3500 W	With standard transport crate	790 143 001	269.000
90 - 315	230 V / 3500 W	With special transport crate	790 143 003	366.000
90 - 315	230 V / 3500 W	Without transport crate, Swiss plug	790 143 033	229.000
90 - 315	230 V / 3500 W	With standard transport crate, Swiss plug	790 143 034	269.000
90 - 315	230 V / 3500 W	With special transport crate, Swiss plug	790 143 035	366.000



IM 315 - D

Butt fusion machine for industrial applications

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Equipped with a load cell and digital display for easy viewing and precise indication of the welding force.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range for straight jointing: d90-315 mm, from SDR 41 up to SDR 11 with PE, PP d315 mm. Limitations in the dimensional range are to be considered for angular jointing, depending on the angle (refer to user's manual).
- **BASE MACHINE**
 - High precision, distortion-free and robust machine base
 - Integrated swivel tables for angular jointing up to 30° (2x15°)
 - Handwheel for easy moving of machine carriage
 - Exact pressure adjustment via direct spring load transfer
 - Digital display for force indication
 - Fusion pressure is maintained with a user friendly fast-locking handle
 - Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
 - Optional outer, horizontally removable clamping devices available
 - Weight (including planer and heater): 169 kg
- **PLANER**
 - Optimized cutting geometry for even and chatter-free planing
 - Swivel mounted for ergonomic handling
 - Mechanical stop to provide single sided planing and defined facing depth
 - Integrated safety switch to prevent unintentional start-up
 - Self-locking mechanism in working position
- **HEATER**
 - High-performance and precision heater with electronic temperature control (2500W)
 - High accuracy of +/- 4°C over the entire heating surface
 - High quality, non-stick PTFE coating
 - Pull-off mechanism to automatically detach the heating plate from pipe ends
 - Metal sheet cover to protect the heating plate in idle position
 - Integrated thermometer for fast visual check of plate temperature
- **ADDITIONAL STANDARD EQUIPMENT**
 - Reduction clamping inserts set d 90-315 mm
 - Pipe supports for picking up reduction supporting inserts d 90-315 mm
 - Reduction pipe supporting inserts set d 90-315 mm
 - Timer to clock fusion times
 - Machine specific tool set

d-d (mm)	Performance	Description	Code	Weight (kg)
90 - 315	230 V / 3500 W	With standard transport crate	790 143 002	269.000
90 - 315	230 V / 3500 W	With special transport crate	790 143 004	366.000
90 - 315	230 V / 3500 W	With standard transport crate, Swiss plug	790 143 036	269.000
90 - 315	230 V / 3500 W	With special transport crate, Swiss plug	790 143 037	366.000



Outer base clamping devices

d	Type	Code	Weight (kg)
315	L	790 143 030	15.867
315	R	790 143 031	15.867



GF 400 Butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.

Hydraulically operated with manual control unit.

Control box with integrated temperature controller and power outlets (type 400 V).

Separate remote temperature controller for the heating element (type 230 V).

Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

• BASE MACHINE

- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Double-sided heating element pull-off mechanism to optimise the change-over phase

• Weight: 95 kg

• HYDRAULIC UNIT

- Compact and robust, with full closed metal housing and two handles for carrying
- Precise pressure setting and fine adjusting
- Joystick operation of machine carriage
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar

• Weight: 41 kg

• Input power: 230 V / 1100 W

• PLANER

- Powerful parallel planer for single or double-sided facing of pipe ends
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up

• Weight: 47 kg

• Input power: 230V/1100 W

• HEATING ELEMENT

- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle

• Weight: 16 kg

• Input power: 230V/3500W

• CONTROL BOX

- Only with type 400 V
- Contains all safety and functional components such as static relay, FI protective switch, temperature control

• Compact unit in steel box with enamel-coated protective frame

• Integrated power outlets for all machine components, only 1 plug to the generator

• Weight: 15 kg

• CASE

• For safe storage of planer and heating element

• Weight: 30 kg

Type	d-d (mm)	Performance	Code	Weight (kg)
GF 400, 400 V	125 - 400	400 V/5700 W	790 127 010	366.000
GF 400, 230 V	125 - 400	230 V/5700 W	790 127 001	355.000



CNC 4.0 400

Automatic butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.

Hydraulically operated with automatic CNC control unit.

Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

• BASE MACHINE

- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete working process
- Weight: 95 kg

• HYDRAULIC UNIT

- Compact aluminium case with innovative design
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Integrated GPS receiver
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be input by means of the barcode scanner (to be ordered separately)
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with Welding Book application
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 37 kg

• PLANER

- Powerful parallel planer for single or double-sided facing of pipe ends
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: 47 kg

• HEATING ELEMENT

- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: 16 kg
- Input power: 230V/3500W

• CASE

- For safe storage of planer and heating element
- Weight: 30 kg

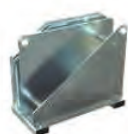
Type	d-d (mm)	Performance	Code	Weight (kg)
CNC 4.0 400	125 - 400	400 V/5700 W	790 153 001	320.000



Type 400 Reduction clamping inserts

- d125-355
 - Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
 - We recommend 4 wide and 4 narrow half shells.
 - Reductions in inch sizes or special diameters upon request
- In order to mount the inserts d 125/d 140/d 160/d 180/d 200/d 225/d 250/d 280, the reduction clamping insert d 315 mm, code 790 127 101, must also be used

d (mm)	narrow Code	Weight (kg)	wide Code	Weight (kg)
125	790 112 100	1.215	790 112 090	0.957
140	790 112 101	1.139	790 112 091	0.950
160	790 112 102	1.080	790 112 092	0.980
180	790 112 103	1.006	790 112 093	0.931
200	790 112 104	0.945	790 112 094	0.880
225	790 112 105	0.833	790 112 095	0.940
250	790 112 106	0.712	790 112 096	0.754
280	790 112 107	0.562	790 112 097	0.750
315	790 127 111	1.200	790 127 101	1.830
355	790 127 112	0.900	790 127 102	1.830



GF 500 Butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.

Hydraulically operated with manual control unit.

Control box with integrated temperature controller and power outlets.

Performance: PE up to d 500 mm SDR 11; PP up to d 500 mm SDR 26.

Special type **GF 500 PP** available with enhanced performance to work with PP pipes and fittings up to d 500 mm SDR 11.

Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

• BASE MACHINE

- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Weight: 169 kg

• HYDRAULIC UNIT

- Compact and robust, with full closed metal housing and two handles for carrying
- Precise pressure setting and fine adjusting
- Joystick operation of machine carriage
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 41 kg

• PLANER

- Powerful parallel planer for single or double-sided facing of pipe ends
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: 58 kg

• HEATING ELEMENT

- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: 26 kg
- Input power: 400 V / 4000 W

• CONTROL BOX

- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame
- Integrated power outlets for all machine components, only 1 plug to the generator
- Weight: 15 kg

• CASE

- For safe storage of planer and heating element
- Weight: 38 kg

Type	d-d (mm)	Performance	Description	Code	Weight (kg)
GF 500	200 - 500	400 V/6250 W	Standard	790 116 040	497.000
GF 500 PP	200 - 500	400 V/7000 W	Enhanced performance for PP applications	790 154 006	502.000



CNC 4.0 500 Automatic butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.

Hydraulically operated with automatic CNC control unit.

Performance: PE up to d 500 mm SDR 11; PP up to d 500 mm SDR 26.

Special type **CNC 4.0 500 PP** available with enhanced performance to work with PP pipes and fittings up to d 500 mm SDR 11

Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**

- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete working process
- Weight: 169 kg

- **HYDRAULIC UNIT**

- Compact aluminium case with innovative design
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Integrated GPS receiver
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be input by means of the barcode scanner (to be ordered separately)
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with Welding Book application
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 37 kg

- **PLANER**

- Powerful parallel planer for single or double-sided facing of pipe ends
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: 58 kg

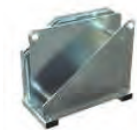
- **HEATING ELEMENT**

- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: 26 kg
- Input power: 400 V / 4000 W

- **CASE**

- For safe storage of planer and heating element
- Weight: 38 kg

Type	d-d (mm)	Performance	Description	Code	Weight (kg)
CNC 4.0 500	200 - 500	400 V/6300 W	Standard	790 154 001	463.000
CNC 4.0 500 PP	200 - 500	400 V/7000 W	Enhanced performance for PP applications	790 154 007	466.000



GF 630 Butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.

Hydraulically operated with manual control unit.

Control box with integrated temperature controller and power outlets.

Performance PE up to d 630 mm SDR 9; PP up to d 630 mm SDR 17.6

For proper handling of the heating element and planer we recommend the assembling of the hoist unit (to be ordered separately).

Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

• BASE MACHINE

- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 45° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Double-sided heating element pull-off mechanism to optimise the change-over phase

• Weight: 222 kg

• HYDRAULIC UNIT

- Compact and robust, with full closed metal housing and two handles for carrying
- Precise pressure setting and fine adjusting
- Joystick operation of machine carriage
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 200 bar

• Weight: 41 kg

• PLANER

- Powerful parallel planer for single or double-sided facing of pipe ends
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

• Weight: 99 kg

• HEATING ELEMENT

- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle

• Weight: 39 kg

• Input power: 400 V / 8000 W

• CONTROL BOX

- Contains all safety and functional components such as static relay, FI protective switch, temperature control

- Compact unit in steel box with enamel-coated protective frame

- Integrated power outlets for all machine components, only 1 plug to the generator

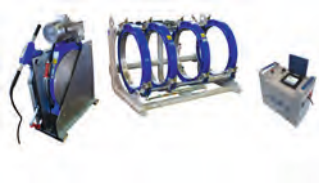
• Weight: 27 kg

• CASE

- For safe storage of planer and heating element

• Weight: 55 kg

d-d (mm)	Performance	Code	Weight (kg)
315 - 630	400 V/11000 W	790 117 032	627.000



CNC 4.0 630

Automatic butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.

Hydraulically operated with automatic CNC control unit.

Performance: PE up to d 630 mm SDR 11; PP up to d 630 mm SDR 17.6

Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

• BASE MACHINE

- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 45° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete working process

Weight: 222 kg

• HYDRAULIC UNIT

- Compact aluminium case with innovative design
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Integrated GPS receiver
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be input by means of the barcode scanner (to be ordered separately)
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with Welding Book application
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 37 kg

• PLANER

- Powerful parallel planer for single or double-sided facing of pipe ends
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up
- Weight: 99 kg

• HEATING ELEMENT

- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: 39 kg
- Input power: 400 V / 8000 W

• CASE

- For safe storage of planer and heating element
- Weight: 55 kg

d-d (mm)	Performance	Code	Weight (kg)
315 - 630	400 V/11000 W	790 155 001	595.000

Tools and accessories

Clamping inserts d20-50mm, IR-110 Plus



- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100
- **Not compatible with PVC-U metric** (special clamping inserts needed)

d (mm)	Code	Weight (kg)	Pieces
20	790 132 051	0.108	1
25	790 132 052	0.106	1
32	790 132 053	0.104	1
40	790 132 054	0.100	1
50	790 132 055	0.095	1



WBI-63 Tool

- Weld bead inspection of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PE100 ecoFIT
- Dimensions d20-d63 mm
- Clamping units d20-d63 mm
- Tablet with accessories
- Label printer Brother PT-P900W

d-d (mm)	Code	Weight (kg)
20 - 63	790 170 001	14



WBI-225 Tool

- Weld bead inspection of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PE100 ecoFIT
- Dimensions d20-d225 mm
- Clamping units d20-d225 mm
- Tablet with accessories
- Label printer Brother PT-P900W

d-d (mm)	Code	Weight (kg)
20 - 225	790 170 002	22

PPC Plastic pipe cutter

Model:

- For cutting of plastic pipes d6 - d160
- Suitable for all GF plastic types PE, PVC-U, PVC-C, ABS, PP, PVDF, ECTFE
- Removable deburring tool integrated

Note:

* Additional spare cutting wheel included in the handle



	d (mm)	Article	Code	Weight (kg)	Closest inch (inch)
*	6 - 63	Plastic Pipe cutter (s max. 7.00mm)	790 109 094	0.785	1/8 - 2
	50 - 125	Plastic Pipe cutter (s max. 16.00mm)	790 109 095	1.875	1 1/2 - 4
	110 - 160	Plastic Pipe cutter (s max. 16.00mm)	790 109 096	2.255	4 - 6
	6 - 63	Spare cutting wheel d6-63mm (3 Pcs./Pu.)	790 109 097	0.010	
	50-125 / 110-160	Spare cutting wheel d50-125mm / d110-160mm (2 Pcs./Pu.)	790 109 098	0.030	

Rotary Pipe Cutter d63-200 mm / d90-315 mm

- Tool for simple right-angle precision cutting of plastic pipe with a wall thickness PVDF/PVC up to 12 mm (up to 15mm with bigger cutter 790109851) and for PP/PE up to 20 mm (up to 30 mm with bigger cutter 790109851) --> blade for PP/PE must be ordered separately Code 790109861
- Including transport box



d-d (mm)	Code	Weight (kg)
63 - 200	790 109 850	7.000
90 - 315	790 109 851	5.000

Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the material of PE, PP, PB, PVDF, ECTFE and PVC-U
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464



Size	Code	Weight (kg)
1 liter	799 298 023	0.872



Half shells IR-63 M PFA inch

- The half shells are different for each dimension. They are used to clamp and position the pipe components
- For PFA Schedule 40 rigid pipe

d (inch)	Code	Weight (kg)	Pieces
¼"	790 180 031	0.031	1
½"	790 180 032	0.030	1
¾"	790 180 033	0.029	1
1"	790 180 034	0.027	1
1 ½"	790 180 035	0.019	1
2	790 180 036	0.006	1



Cleaning tissue KO-TON-R

Minimum order quantity 100 pieces

- This cleaning tissue is suitable for the cleaning of the welding zone of piping components, because it is lint free and clean room checked.

Code	Weight (kg)
790 122 085	0.005



Fix pipe stop IR-63 M

- Fix pipe stop with angle markings and 2 mm facing on both sides
- Angle markings enable a precise and fast installation

d-d (mm)	Code	Weight (kg)	Pieces
20 - 63	790 180 011	0.398	1



Tempil sticks

Temperature (°C)	Code	Weight (kg)	Color
253	761 066 796	0.012	yellow
274	761 066 797	0.014	red



Adjustable pipe stop IR-63 M

- Adjustable pipe stop for individual facing of 0.5 - 3 mm on both sides

d-d (mm)	Code	Weight (kg)	Pieces
20 - 63	790 180 012	0.740	1



CONNECT Welding Data box

- The CONNECT Welding Data Box enables seamless transfer of fusion data to "CONNECT Welding Data"

Code	Weight (kg)
790 180 019	0.200



Extension cable set IR-63 M

- The extension cable set makes it possible to carry out remote weldings in places that are difficult to access
- The set includes extension cables for facer, heater & clamping slide

d-d (mm)	Code	Weight (kg)	Length (m)
20 - 63	790 180 013	3.560	6



Half shells IR-63 M

- The half shells are different for each dimension. They are used to clamp and position the pipe components
- Angle markings on the half shells enable a precise and fast installation
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100 & PVC-U

d (mm)	Code	Weight (kg)	Pieces
20	790 180 022	0.031	1
25	790 180 023	0.029	1
32	790 180 024	0.028	1
40	790 180 025	0.025	1
50	790 180 026	0.018	1



Set of end caps IR

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d (mm)	Code	Weight (kg)	Pieces	Type
20	790 180 052	0.007	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
25	790 180 053	0.008	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
32	790 180 054	0.014	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
40	790 180 055	0.020	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
50	790 180 056	0.016	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
63	790 180 057	0.020	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-225 Plus, IR-110 A



Set of facing knives IR-63 M & IR-63 Plus

- A set includes two facing knives and six screws. Each facing knife has four blades. In case of a blunt blade the facing knife may be turned three times before it must be replaced

d-d (mm)	Code	Weight (kg)	Pieces
20 - 63	790 180 018	0.016	2



Torx bolt tool T10

- For changing and turning the facing knives

Description	Code	Weight (kg)
T10	790 180 077	0.029



Outer clamping unit left IR-63 M

- Moveable clamping unit for fixing the components
- Angle markings enable a precise and fast installation
- Integrated half shell d63mm

d-d (mm)	Code	Weight (kg)
20 - 63	790 180 076	0.916



Outer clamping unit right IR-63 M

- Moveable clamping unit for fixing the components
- Angle markings enable a precise and fast installation
- Integrated half shell d63mm

d-d (mm)	Code	Weight (kg)
20 - 63	790 180 075	0.916



Extension cable for clamping slide IR-63 M

- 6 Meter extension cable for clamping slide

d-d (mm)	Code	Weight (kg)	Length (m)
20 - 63	790 180 014	0.700	6



Extension cable for heater IR-63 M

- 6 Meter extension cable for heater

d-d (mm)	Code	Weight (kg)	Length (m)
20 - 63	790 180 016	0.767	6



Power supply cable 230 V IR-63 M, IR-63/110 Plus, IR-110 A & BCF Plus

Performance	Code	Weight (kg)
230V	790 180 017	0.150



Brush IR-63 M & IR-63 Plus

Code	Weight (kg)
790 180 080	0.013



Allen key 4mm

- For setting the overlap and to loosen the clamping slide

Description	Code	Weight (kg)
4mm	790 180 078	0.029



Extension cable for facer IR-63 M

- 6 Meter extension cable for facer

d-d (mm)	Code	Weight (kg)	Length (m)
20 - 63	790 180 015	0.438	6



Clamping inserts IR-63 Plus / BCF Plus

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100
- BCF weldable materials: PVDF, PP-n
- **Not compatible with PVC-U metric** (special clamping inserts needed)

d (mm)	Code	Weight (kg)	Pieces
20	790 131 038	0.140	1
25	790 131 039	0.090	1
32	790 131 040	0.052	1
40	790 131 041	0.074	1
50	790 131 042	0.100	1
63	790 131 043	0.035	1



Clamping inserts IR-63 Plus PVC-U metric

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- 4x PVC-U metric clamping inserts are needed for the two inner clamping units.
- **The clamping inserts can only be used for PVC-U metric**

d (mm)	Code	Weight (kg)	Pieces
20	790 131 071	0.062	1
25	790 131 072	0.058	1
32	790 131 073	0.055	1
40	790 131 074	0.054	1
50	790 131 075	0.050	1
63	790 131 076	0.034	1



Clamping inserts IR-63 Plus CONTAIN-IT Plus

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- 4x CONTAIN-IT Plus clamping inserts are needed for the two inner clamping devices.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100
- **Not compatible with PVC-U metric** (special clamping inserts needed)

d (mm)	D (mm)	Code	Weight (kg)	Pieces
20	50	790 131 090	0.060	1
25	50	790 131 091	0.060	1
32	63	790 131 092	0.060	1
40	75	790 131 093	0.050	1



Clamping inserts IR-63 Plus PFA Sch. 40 rigid pipe

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- For PFA Schedule 40 rigid pipe

d (inch)	Code	Weight (kg)	Pieces
1/4"	790 131 446	0.057	1
1/2"	790 131 447	0.055	1
3/4"	790 131 448	0.053	1
1"	790 131 449	0.051	1
1 1/2"	790 131 452	0.043	1
2"	790 131 450	0.041	1



Pipe stop IR-63 Plus

- The pipe stop defines the allowance when the pipes are clamped into position.

d-d (mm)	Code	Weight (kg)	Pieces
20 - 63	790 131 046	0.430	1



Heater protection shield IR-63 Plus

- Protects the heater from plastic chips during the facing process.

Code	Weight (kg)	Pieces
790 131 051	0.205	1



Set of facing knives IR-63 Plus

- A set includes two facing knives and six screws. Each facing knife has four blades. In case of a blunt blade the facing knife may be turned three times before it must be replaced.

d-d (mm)	Code	Weight (kg)	Pieces
20 - 63	790 131 045	0.016	2



Set of end caps IR

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d (mm)	Code	Weight (kg)	Pieces	Type
20	790 180 052	0.007	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
25	790 180 053	0.008	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
32	790 180 054	0.014	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
40	790 180 055	0.020	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
50	790 180 056	0.016	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
63	790 180 057	0.020	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-225 Plus, IR-110 A



Torx bolt tool T10

- For changing and turning the facing knives

Description	Code	Weight (kg)
T10	790 180 077	0.029



Extension cable for clamping slide IR-63 Plus

- The extension cable enables the fusion e. g. under the ceiling.

d-d (mm)	Code	Weight (kg)	Length (m)
20 - 63	790 131 047	0.700	5



Extension cable for facing tool IR-63 Plus

- The extension cable enables the fusion e. g. under the ceiling.

d-d (mm)	Code	Weight (kg)	Length (m)
20 - 63	790 131 048	0.438	5



Extension cable for heater IR-63 Plus

- The extension cable enables the fusion e. g. under the ceiling.

d-d (mm)	Code	Weight (kg)	Length (m)
20 - 63	790 131 049	0.767	5

Clamping inserts d63-90mm, IR-110 Plus/A



- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100
- **Not compatible with PVC-U metric** (special clamping inserts needed)

d (mm)	Code	Weight (kg)	Pieces
63	790 132 156	0.085	1
75	790 132 157	0.087	1
90	790 132 158	0.064	1

CONTAIN-IT Plus Clamping inserts IR-110 Plus



- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- 4x CONTAIN-IT Plus clamping inserts are needed for the two inner clamping devices.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100

d (mm)	D (mm)	Code	Weight (kg)	Pieces
20	50	790 132 190	0.100	1
25	50	790 132 191	0.130	1
32	63	790 132 192	0.120	1
40	75	790 132 193	0.120	1
50	90	790 132 194	0.110	1

Set of end caps IR-Plus/A



- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d (mm)	Code	Weight (kg)	Pieces	Type
20	790 131 030	0.040	4	IR-63 Plus, IR-110 Plus, IR-110 A
25	790 131 031	0.010	4	IR-63 Plus, IR-110 Plus, IR-110 A
32	790 131 032	0.088	4	IR-63 Plus, IR-110 Plus, IR-110 A
40	790 131 033	0.005	4	IR-63 Plus, IR-110 Plus, IR-110 A
50	790 131 034	0.005	4	IR-63 Plus, IR-110 Plus, IR-110 A
63	790 131 035	0.023	4	IR-63 Plus, IR-110 Plus, IR-225 Plus, IR-110 A
75	790 133 036	0.095	4	IR-110 Plus, IR-225 Plus, IR-110 A
90	790 133 037	0.028	4	IR-110 Plus, IR-225 Plus, IR-110 A
110	790 133 038	0.180	4	IR-110 Plus, IR-225 Plus, IR-110 A, IR-315 A
125	790 133 039	0.150	4	IR-225 Plus, IR-315 A
140	790 133 040	0.180	4	IR-225 Plus, IR-315 A
160	790 133 041	0.045	4	IR-225 Plus, IR-315 A
180	790 133 494	0.400	4	IR-225 Plus, IR-315 A
200	790 133 042	0.080	4	IR-225 Plus, IR-315 A
225	790 133 043	0.400	4	IR-225 Plus, IR-315 A
250	790 134 151	0.400	4	IR-315 A
280	790 134 152	0.400	4	IR-315 A
315	790 134 153	0.400	4	IR-315 A

Clamping inserts IR-110 Plus PFA Sch. 40 rigid pipe



- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- For PFA Schedule 40 rigid pipe

d (inch)	Code	Weight (kg)	Pieces
¼	790 132 062	0.109	1
½	790 132 063	0.107	1
¾	790 132 064	0.106	1
1	790 132 065	0.103	1
1 ½	790 132 067	0.096	1
2	790 132 066	0.088	1

Set of end caps IR



- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d (mm)	Code	Weight (kg)	Pieces	Type
20	790 180 052	0.007	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
25	790 180 053	0.008	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
32	790 180 054	0.014	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
40	790 180 055	0.020	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
50	790 180 056	0.016	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
63	790 180 057	0.020	4	IR-63 M, IR-63 Plus, IR-110 Plus, IR-225 Plus, IR-110 A

Pipe stop IR-110 Plus



- The pipe stop defines the allowance when the pipes are clamped into position.

d-d (mm)	Code	Weight (kg)	Pieces
20 - 110	790 132 059	0.700	1

Set of facing knives IR-110 Plus, IR-110 A



- A set includes two facing knives and six screws. Each facing knife has four blades. In case of a blunt blade the facing knife may be turned three times before it must be replaced.

d-d (mm)	Code	Weight (kg)	Pieces
20 - 110	790 132 061	0.007	2

Cleaning brush IR-110/225/315 Plus, IR-110/315 A



Code	Weight (kg)
790 041 017	0.013



Set of inner clamping units IR-110 Plus

- The set includes the following parts:
 - 2x upper clamping units (right / left)
 - 2x fixing screws

Note:

All existing half-shells for IR-110 Plus machines can be used with the new inner clamping units.

d-d (mm)	Code	Weight (kg)	Pieces
20 - 110	790 132 270	0.228	2



Clamping inserts IR-225 Plus

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100

d (mm)	Code	Weight (kg)	Pieces
63	790 133 026	0.700	1
75	790 133 027	0.400	1
90	790 133 028	0.691	1
110	790 133 029	0.644	1
125	790 133 030	0.500	1
140	790 133 031	0.600	1
160	790 133 032	0.600	1
180	790 133 463	0.560	1
200	790 133 033	0.700	1
225	790 133 034	0.270	1



CONTAIN-IT Plus Clamping inserts IR-225 Plus

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- 4x CONTAIN-IT Plus clamping inserts are needed for the two inner clamping devices.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100

d (mm)	D (mm)	Code	Weight (kg)	Pieces
63	110	790 133 090	0.730	1
75	125	790 133 091	0.700	1
90	140	790 133 092	0.600	1
110	160	790 133 093	0.620	1
125	180	790 133 094	0.580	1



Pipe stop IR-225 Plus

- The pipe stop defines the allowance when the pipes are clamped into position.

d-d (mm)	Code	Weight (kg)	Pieces
63 - 225	790 133 047	0.150	1



Set of facing knives IR-225/315 Plus

- A set includes two facing knives and eight screws. Each facing knife has four blades. In case of a blunt blade the facing knife may be turned three times before it must be replaced.

d-d (mm)	Code	Weight (kg)	Pieces
63 - 225	790 133 046	0.125	2



Torx key with T-bar handle IR-225/315 Plus, IR-315 A

- For facing knives

Description	Code	Weight (kg)
T25	790 133 577	0.063



Cleaning brush IR-110/225/315 Plus, IR-110/315 A

Code	Weight (kg)
790 133 198	0.055



Clamping inserts d20-50mm, IR-110 A

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100
- **Not compatible with PVC-U metric** (special clamping inserts needed)

d (mm)	Code	Weight (kg)	Pieces
20	790 164 022	0.099	1
25	790 164 023	0.097	1
32	790 164 024	0.093	1
40	790 164 025	0.088	1
50	790 164 026	0.081	1



Clamping inserts IR-110 A PVC-U metric

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- 4x PVC-U metric clamping inserts are needed for the two inner clamping devices.
- **The clamping inserts can only be used for PVC-U metric**

d (mm)	Code	Weight (kg)	Pieces
20	790 132 161	0.108	1
25	790 132 162	0.105	1
32	790 132 163	0.104	1
40	790 132 164	0.100	1
50	790 132 165	0.096	1
63	790 132 166	0.085	1



Set of inner clamping units IR-110 A

- The set includes the following parts:
 - 2x upper clamping units (right / left)
 - 2x fixing screws

Note:

All existing half-shells for IR-110 A machines can be used with the new inner clamping units.

d-d (mm)	Code	Weight (kg)	Pieces
20 - 110	790 164 270	0.228	2



Clamping inserts IR-315 A

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d (mm)	Code	Weight (kg)	Pieces
110	790 165 010	1.500	1
125	790 165 011	1.400	1
140	790 165 012	1.300	1
160	790 165 013	1.300	1
180	790 165 014	1.200	1
200	790 165 015	1.100	1
225	790 165 016	1.000	1
250	790 165 017	0.900	1
280	790 165 018	0.700	1



Set of facing knives IR-315/400 A

- A set includes two facing knives and ten screws. Each facing knife has four blades. In case of a blunt blade the facing knife may be turned three times before it must be replaced.

d-d (mm)	Code	Weight (kg)	Pieces
110 - 315	790 165 549	0.100	2



Clamping inserts IR-400 A

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d (mm)	Code	Weight (kg)	Pieces
355	790 166 010	2.651	1
400	790 166 011	1.722	1



Set of end caps

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d (mm)	Code	Weight (kg)	Pieces
355	790 134 377	0.190	1
400	790 134 378	0.250	1



Set of facing knives IR-315/400 A

- A set includes two facing knives and ten screws. Each facing knife has four blades. In case of a blunt blade the facing knife may be turned three times before it must be replaced.

d-d (mm)	Code	Weight (kg)	Pieces
110 - 315	790 165 549	0.100	2



WBI-225 Tool

- Weld bead inspection of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PE100 ecoFIT
- Dimensions d20-d225 mm
- Clamping units d20-d225 mm
- Tablet with accessories
- Label printer Brother PT-P900W

d-d (mm)	Code	Weight (kg)
20 - 225	790 170 002	22



Clamping units WBI Tool

- The clamping units are different for each dimension. They are used to clamp and position the WBI Tool to the pipe components
- The clamping units d20-d63 mm are only compatible with the WBI-63 Tool
- The clamping units d75-d225 mm are only compatible with the WBI-225 Tool

d (mm)	Code	Weight (kg)
20	790 170 221	0.018
25	790 170 222	0.020
32	790 170 223	0.022
40	790 170 224	0.023
50	790 170 225	0.029
63	790 170 226	0.030
75	790 170 227	0.063
90	790 170 228	0.065
110	790 170 229	0.072
125	790 170 230	0.080
140	790 170 231	0.121
160	790 170 232	0.141
180	790 170 233	0.150
200	790 170 234	0.151
225	790 170 235	0.167



Ribbon blue label WBI Tool

- Only use for WBI Tool

Description	Code	Weight (kg)
Ribbon blue label 24 mm Brother TZe-551	790 170 315	0.100



Heating stations BCF Plus

d (mm)	Code	Weight (kg)	Pieces
20	790 121 111	1.818	1
25	790 121 112	1.822	1
32	790 121 113	1.910	1
40	790 121 114	2.396	1
50	790 121 115	2.406	1
63	790 121 116	2.197	1
75	790 121 117	3.600	1
90	790 121 118	3.600	1
110	790 121 119	3.520	1



Bladder BCF Plus for SYGEF PVDF

- d20-d63: Only suitable for welding SYGEF PVDF. **Silver bladder head!**
- d75-110: Suitable for welding SYGEF PVDF and PROGEF Natural PP-n. **Silver bladder head!**

d (mm)	Code	Weight (kg)	Pieces
20	790 122 041	0.014	1
25	790 122 042	0.020	1
32	790 122 043	0.037	1
40	790 122 044	0.078	1
50	790 122 045	0.132	1
63	790 122 046	0.138	1
75	790 121 047	0.203	1
90	790 121 048	0.265	1
110	790 121 049	0.552	1



Bladder BCF Plus for PROGEF Natural PP-n

- d20-63: Only suitable for welding PROGEF Natural PP-n. **Blue bladder head!**
- d75-110: Suitable for welding PROGEF Natural PP-n and SYGEF PVDF. **Silver bladder head!**

d (mm)	Code	Weight (kg)	Pieces
20	790 122 091	0.038	1
25	790 122 092	0.021	1
32	790 122 093	0.040	1
40	790 122 094	0.050	1
50	790 122 095	0.105	1
63	790 122 096	0.138	1
75	790 121 047	0.203	1
90	790 121 048	0.265	1
110	790 121 049	0.552	1



Supporting tool BCF Plus

- Helpful to fix 45°- angle components.

d-d (mm)	Code	Weight (kg)	Pieces
20 - 63	790 121 072	0.542	1
75 - 110	790 121 073	0.900	1



Clamping units BCF Plus

- The clamping units are adjustable, so that all types of pipes and fittings can be clamped.

d-d (mm)	Code	Weight (kg)	Pieces
20 - 63	790 121 034	0.600	1
75 - 110	790 121 035	0.900	1



Clamping inserts BCF Plus

- The clamping inserts are suitable for the clamping units of the BCF Plus machine. They are used to clamp the piping components.
- **No** clamping inserts are needed for **d 110 mm**!

d (mm)	Code	Weight (kg)	Pieces
75	790 121 036	0.143	1
90	790 121 037	0.095	1



Adapter for clamping unit BCF Plus d 75-110 mm

- The adapter makes it possible, to insert clamping inserts with d 20-63 mm in clamping units with d 75-110 mm to be able to clamp pipes and fittings with d 20-63 mm with these clamping units.

d-d (mm)	Code	Weight (kg)	Pieces
75 - 110	790 121 038	0.250	1



Facing tool BCF Plus

- Inclusive crank handle, mounting material and clamping inserts. Suitable for SYGEF PVDF as well as for PROGEF Natural PP-n.

d-d (mm)	Code	Weight (kg)	Pieces
20 - 63	790 121 052	2.339	1
75 - 110	790 121 053	3.000	1



Clamping inserts for the facing tool BCF Plus

- These dimension-specific parts are inserted into the facing tool, in order to be able to face the end of the pipes smoothly and parallel.

d (mm)	Code	Weight (kg)	Pieces
20	790 121 061	0.160	1
25	790 121 062	0.146	1
32	790 121 063	0.135	1
40	790 121 064	0.125	1
50	790 121 065	0.100	1
63	790 121 066	0.050	1
75	790 121 067	0.300	1
90	790 121 068	0.200	1
110	790 121 069	0.090	1



Facing tool mounting plate BCF Plus

- To fix the facing tool on the workbench.

d-d (mm)	Code	Weight (kg)
20 - 110	790 121 055	1.200



Hose BCF Plus

- Connection hose for the BCF Plus bladder.

d (mm)	Code	Weight (kg)	Length (m)
4	790 122 087	0.121	16



Hose box incl. hose BCF Plus

- For the clean and professional storage of the air hose.

d (mm)	Code	Weight (kg)	Length (m)	Pieces
4	790 121 151	1.114	16	1

Large Dimension Package BCF Plus d75-110mm

- This package is necessary to complete BCF Plus machines which are only equipped for small dimensions d 20-63 mm.
- **Delivery includes:**
 - Facing tool d 75-110 mm with facing inserts d 75-110 mm (3 pcs.)
 - Supporting tools d 75-110 mm (2 pcs.)
 - Clamping units d75-110 mm (2 pcs.) with clamping inserts d75-110 mm (8 pcs.)
 - Adapter for clamping unit d 75-110 mm (2 pcs.)

Note:

Heating stations not included

d-d (mm)	Code	Weight (kg)
75 - 110	790 121 022	8.000



Heating stations BCF Plus

d (mm)	Code	Weight (kg)	Pieces
20	790 121 111	1.818	1
25	790 121 112	1.822	1
32	790 121 113	1.910	1
40	790 121 114	2.396	1
50	790 121 115	2.406	1
63	790 121 116	2.197	1
75	790 121 117	3.600	1
90	790 121 118	3.600	1
110	790 121 119	3.520	1



Bladder BCF Plus for SYGEF PVDF

- d20-d63: Only suitable for welding SYGEF PVDF. **Silver bladder head!**
- d75-110: Suitable for welding SYGEF PVDF and PROGEF Natural PP-n. **Silver bladder head!**

d (mm)	Code	Weight (kg)	Pieces
20	790 122 041	0.014	1
25	790 122 042	0.020	1
32	790 122 043	0.037	1
40	790 122 044	0.078	1
50	790 122 045	0.132	1
63	790 122 046	0.138	1
75	790 121 047	0.203	1
90	790 121 048	0.265	1
110	790 121 049	0.552	1



Bladder BCF Plus for PROGEF Natural PP-n

- d20-63: Only suitable for welding PROGEF Natural PP-n. **Blue bladder head!**
- d75-110: Suitable for welding PROGEF Natural PP-n and SYGEF PVDF. **Silver bladder head!**

d (mm)	Code	Weight (kg)	Pieces
20	790 122 091	0.038	1
25	790 122 092	0.021	1
32	790 122 093	0.040	1
40	790 122 094	0.050	1
50	790 122 095	0.105	1
63	790 122 096	0.138	1
75	790 121 047	0.203	1
90	790 121 048	0.265	1
110	790 121 049	0.552	1



Bladder/hose remove tool (BReT) BCF Plus

- Helpful to remove bladders easily.

Code	Weight (kg)	Pieces
790 121 075	0.079	1



Supporting tool BCF Plus

- Helpful to fix 45°- angle components.

d-d (mm)	Code	Weight (kg)	Pieces
20 - 63	790 121 072	0.542	1
75 - 110	790 121 073	0.900	1



Clamping units BCF Plus

- The clamping units are adjustable, so that all types of pipes and fittings can be clamped.

d-d (mm)	Code	Weight (kg)	Pieces
20 - 63	790 121 034	0.600	1
75 - 110	790 121 035	0.900	1



Supporting tool BCF Plus

- Helpful to fix 45°- angle components.

d-d (mm)	Code	Weight (kg)	Pieces
20 - 63	790 121 072	0.542	1
75 - 110	790 121 073	0.900	1



Facing tool mounting plate BCF Plus

- To fix the facing tool on the workbench.

d-d (mm)	Code	Weight (kg)
20 - 110	790 121 055	1.200



Hose BCF Plus

- Connection hose for the BCF Plus bladder.

d (mm)	Code	Weight (kg)	Length (m)
4	790 122 087	0.121	16



Hose box incl. hose BCF Plus

- For the clean and professional storage of the air hose.

d (mm)	Code	Weight (kg)	Length (m)	Pieces
4	790 121 151	1.114	16	1



Socket for compressed air hose BCF Plus

d (mm)	Code	Weight (kg)	Pieces
4	790 122 104	0.002	1



Hose cutter BCF Plus

d-d (mm)	Code	Weight (kg)	Pieces
4 - 6	790 122 106	0.031	1



Extension cable BCF Plus

- The extension cable enable the fusion e. g. under the ceiling.

Code	Weight (kg)	Length (mm)
790 122 989	1.000	8



Label printer Brother PT-P900Wc

- For IR & BCF fusion machines only
- Label 36 mm included
- Order Label 24 mm separately

Description	Code	Weight (kg)
Label printer Brother PT-P900Wc	790 180 081	2.470
Ribbon white label 24 mm Brother TZe-251	790 180 082	0.100



Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the material of PE, PP, PB, PVDF, ECTFE and PVC-U
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464

Size	Code	Weight (kg)
1 liter	799 298 023	0.872



Cleaning tissue KO-TON-R

Minimum order quantity 100 pieces

- This cleaning tissue is suitable for the cleaning of the welding zone of piping components, because it is lint free and clean room checked.

Code	Weight (kg)
790 122 085	0.005



USB Stick IR Plus

- Formatted USB Stick to extract fusion protocols from IR-Plus machines and upload to "CONNECT Welding Data"

Code	Weight (kg)	Pieces
790 180 083	0.050	1



IR-Plus Win Weld

- The PC data transfer software makes it possible to read the recorded fusion data from the USB stick (max. 2 GB) on the PC
- Incl. USB stick 2GB

Code	Weight (kg)
790 131 471	0.151



BCF Plus Win Weld

- The PC data transfer software makes it possible to read the recorded fusion data from the USB stick (max. 2 GB) on the PC
- Incl. USB stick 2GB

Code	Weight (kg)
790 121 471	0.080

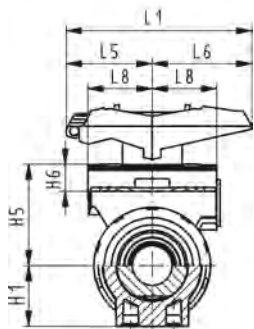
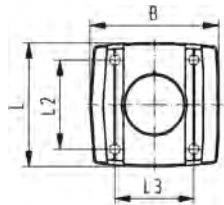
Spare parts

Connecting parts and subassembly type 546 and 543

Multifunctional modules



DN10/15 - 50



Multifunctional module (I02) PP-GF Module empty

Model:

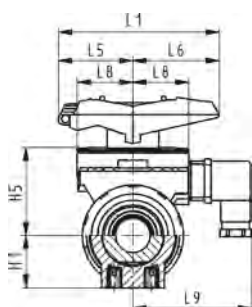
- Accessory to ball valve type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- The multifunctional module from d75 - d110 has a master gauge F07 according to EN ISO 5211.

d-d (mm)	Inch (inch)	DN-DN (mm)	Code	Weight (kg)
16 - 20	3/8 - 1/2	10 - 15	167 482 680	0.069
25 - 32	3/4 - 1	20 - 25	167 482 681	0.149
40 - 50	1 1/4 - 1 1/2	32 - 40	167 482 682	0.168
63	2	50	167 482 683	0.209
75 - 90	2 1/2 - 3	65 - 80	167 482 684	0.379
110	4	100	167 482 685	0.607

d-d (mm)	B (mm)	H1 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L5 (mm)	L6 (mm)	L8 (mm)
16 - 20	67	27	50	17	72	87	54	40	42	45	34
25 - 32	75	30	53	16	72	108	52	46	50	58	38
40 - 50	81	44	72	16	80	140	60	50	66	75	41
63	91	64	94	19	93	165	68	65	78	87	46
75 - 90	90	85	157	23	85	270			64	206	
110	106	123	175	23	97	320			64	256	



DN10/15 - 50



Multifunctional module (I03) PP-GF With mechanical limit switches AgNi

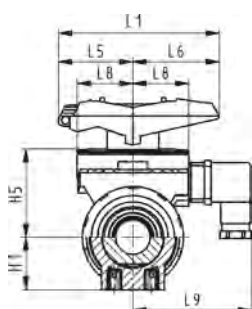
Model:

- Accessory to ball valve type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including plug 3P+E / protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- Switch type Crouzet 83 181

DN-DN (mm)	d-d (mm)	Inch (inch)	Code	Weight (kg)	H1 (mm)	H5 (mm)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	L9 (mm)
10 - 15	16 - 20	$\frac{3}{8} - \frac{1}{2}$	167 482 626	0.104	27	50	87	42	45	34	73
20 - 25	25 - 32	$\frac{3}{4} - 1$	167 482 627	0.118	30	53	108	50	58	38	77
32 - 40	40 - 50	$1 \frac{1}{4} - 1 \frac{1}{2}$	167 482 628	0.140	44	72	140	66	75	41	80
- - 50	- - 63	2	167 482 629	0.257	64	94	165	78	87	46	85
65 - 80	75 - 90	$2 \frac{1}{2} - 3$	167 482 630	0.478	85	157	270	64	206		
- - 100	- - 110	4	167 482 631	0.480	123	175	320	64	256		



DN10/15 - 50



Multifunctional module (I04) PP-GF With mechanical limit switches Au

Model:

- Accessory to ball valve type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including plug 3P+E / protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- Switch type Crouzet 83 181

DN-DN (mm)	d-d (mm)	Inch (inch)	Code	Weight (kg)	H1 (mm)	H5 (mm)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	L9 (mm)
10 - 15	16 - 20	$\frac{3}{8} - \frac{1}{2}$	167 482 635	0.103	27	50	87	42	45	34	73
20 - 25	25 - 32	$\frac{3}{4} - 1$	167 482 636	0.120	30	53	108	50	58	38	77
32 - 40	40 - 50	$1 \frac{1}{4} - 1 \frac{1}{2}$	167 482 637	0.138	44	72	140	66	75	41	80
- - 50	- - 63	2	167 482 638	0.175	64	94	165	78	87	46	85
65 - 80	75 - 90	$2 \frac{1}{2} - 3$	167 482 639	0.460	85	157	270	64	206		
- - 100	- - 110	4	167 482 640	0.480	123	175	320	64	256		



Multifunctional module (I05) PP-GF With inductive limit switches Namur

Model:

- Accessory to ball valve type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including plug 3P+E / protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- Switch type Pepperl+Fuchs NJ1.5-F-N

DN-DN (mm)	d-d (mm)	Inch (inch)	Code	Weight (kg)	H1 (mm)	H5 (mm)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	L9 (mm)
10 - 15	16 - 20	$\frac{3}{8} - \frac{1}{2}$	167 482 671	0.097	27	50	87	42	45	34	73
20 - 25	25 - 32	$\frac{3}{4} - 1$	167 482 672	0.107	30	53	108	50	58	38	77
32 - 40	40 - 50	$1 \frac{1}{4} - 1 \frac{1}{2}$	167 482 673	0.135	44	72	140	66	75	41	80
-- 50	-- 63	2	167 482 674	0.257	64	94	165	78	87	46	85
65 - 80	75 - 90	$2 \frac{1}{2} - 3$	167 482 675	0.460	85	157	270	64	206		
-- 100	-- 110	4	167 482 676	0.480	123	175	320	64	256		



Multifunctional module (I06) PP-GF With inductive limit switches PNP

Model:

- Accessory to ball valve type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including plug 3P+E / protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- Switch type Pepperl+Fuchs NBB1.5-F79-E2

DN-DN (mm)	d-d (mm)	Inch (inch)	Code	Weight (kg)	H1 (mm)	H5 (mm)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	L9 (mm)
10 - 15	16 - 20	$\frac{3}{8} - \frac{1}{2}$	167 482 662	0.182	27	50	87	42	45	34	73
20 - 25	25 - 32	$\frac{3}{4} - 1$	167 482 663	0.197	30	53	108	50	58	38	77
32 - 40	40 - 50	$1 \frac{1}{4} - 1 \frac{1}{2}$	167 482 664	0.215	44	72	140	66	75	41	80
-- 50	-- 63	2	167 482 665	0.175	64	94	165	78	87	46	85
65 - 80	75 - 90	$2 \frac{1}{2} - 3$	167 482 666	0.460	85	157	270	64	206		
-- 100	-- 110	4	167 482 667	0.480	123	175	320	64	256		



Multifunctional module (I07) PP-GF With inductive limit switches NPN

Model:

- Accessory to ball valve type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including plug 3P+E / protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- Switch type Pepperl+Fuchs NBB1.5-F79-E1

DN-DN (mm)	d-d (mm)	Inch (inch)	Code	Weight (kg)	H1 (mm)	H5 (mm)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	L9 (mm)
10 - 15	16 - 20	$\frac{3}{8} - \frac{1}{2}$	167 482 653	0.110	27	50	87	42	45	34	73
20 - 25	25 - 32	$\frac{3}{4} - 1$	167 482 654	0.120	30	53	108	50	58	38	77
32 - 40	40 - 50	$1 \frac{1}{4} - 1 \frac{1}{2}$	167 482 655	0.135	44	72	140	66	75	41	80
-- 50	-- 63	2	167 482 656	0.175	64	94	165	78	87	46	85
65 - 80	75 - 90	$2 \frac{1}{2} - 3$	167 482 657	0.460	85	157	270	64	206		
-- 100	-- 110	4	167 482 658	0.480	123	175	320	64	256		

Union nuts



PROGEF Standard Union nut 546 Pro and 543 Pro

Model:

- Material: PP-H

d (mm)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	S (mm)
16 - 20	10 - 15	167 482 712	0.014	50	34	19	42
25	20	167 482 713	0.018	58	39	20	48
32	25	167 482 714	0.030	68	47	24	58
40	32	167 482 715	0.054	84	57	27	71
50	40	167 482 716	0.076	97	65	30	84
63	50	167 482 717	0.151	124	79	36	106
75	65	167 482 718	0.463	166	94	48	135
90	80	167 482 719	0.728	200	113	54	135
110	100	167 482 720	1.117	238	137	60	198



Union nut 546 Pro and 543 Pro PVC-U

d (mm)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	S (mm)	Closest inch (inch)
16 - 20	10 - 15	161 490 538	0.019	50	34	19	42	3/8 - 1/2
25	20	161 490 539	0.023	58	39	20	48	3/4
32	25	161 490 540	0.041	68	47	24	58	1
40	32	161 490 541	0.066	84	57	27	71	1 1/4
50	40	161 490 542	0.092	97	65	30	84	1 1/2
63	50	161 490 543	0.189	124	79	36	106	2
75	65	161 490 544	0.562	166	94	48	135	2 1/2
90	80	161 490 545	0.882	200	113	54	135	3
110	100	161 490 546	1.355	238	137	60	198	4



Union nut 546 Pro and 543 Pro ABS

d (mm)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	S (mm)
16 - 20	10 - 15	169 480 713	0.014	50	34	19	42
25	20	169 480 714	0.021	58	39	20	48
32	25	169 480 715	0.030	68	47	24	58
40	32	169 480 716	0.047	84	57	27	71
50	40	169 480 717	0.067	97	65	30	84
63	50	169 480 718	0.139	124	79	36	106
75	65	169 480 719	0.435	166	94	48	135
90	80	169 480 720	0.683	200	113	54	135
110	100	169 480 721	1.048	238	137	60	198



SYGEF Standard Union nut 546 Pro and 543 Pro

Model:

- Material: PVDF

d (mm)	DN (mm)	Code	Weight (kg)	D (mm)	L (mm)	D1 (mm)	S (mm)
16 - 20	10 - 15	175 482 937	0.022	50	19	34	42
25	20	175 482 938	0.033	58	20	39	48
32	25	175 482 939	0.053	68	24	47	58
40	32	175 482 940	0.099	84	27	57	71
50	40	175 482 941	0.095	94	30	65	84
63	50	175 482 942	0.200	120	36	79	106
75	65	175 482 943	0.463	124	36	79	106
90	80	175 482 944	0.728	166	48	94	135
110	100	175 482 945	1.117	238	60	137	198



Union nut 546 Pro and 543 Pro PVC-C

d (mm)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	S (mm)	Closest inch (inch)
16 - 20	10 - 15	163 481 226	0.020	50	34	19	42	$\frac{3}{8}$ - $\frac{1}{2}$
25	20	163 481 227	0.019	58	39	20	48	$\frac{3}{4}$
32	25	163 481 228	0.041	68	47	24	58	1
40	32	163 481 229	0.054	84	57	27	71	1 $\frac{1}{4}$
50	40	163 481 230	0.099	97	65	30	84	1 $\frac{1}{2}$
63	50	163 481 231	0.199	124	79	36	106	2
75	65	163 481 232	0.619	166	94	48	135	2 $\frac{1}{2}$
90	80	163 481 233	0.973	200	113	54	135	3
110	100	163 481 234	1.493	238	137	60	198	4

Valve ends ball valve type 546 and 543



Valve end 546 Pro and 543 Pro PVC-U (G01) With solvent cement socket metric

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	16	161 490 666	0.011	38	23	18	4	4
20	16	161 490 667	0.009	38	27	20	4	4
25	16	161 490 668	0.012	44	33	23	5	4
32	16	161 490 669	0.024	53	41	26	5	4
40	16	161 490 670	0.042	65	51	31	5	5
50	16	161 490 671	0.065	77	62	34	6	3
63	16	161 490 672	0.118	99	77	41	7	3
75	16	161 490 673	0.224	125	92	49	9	4
90	16	161 490 674	0.377	150	110	57	10	5
110	16	161 490 675	0.639	180	134	69	11	5

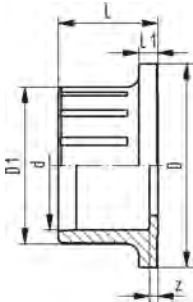


Valve end 546 Pro PVC-U With solvent cement socket metric

Model:

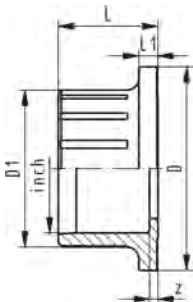
- Valve end 546 Pro PVC-U to retrofit the ball valve 546 according the same z-dimension as for type 370 with nuts

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
75	16	161 490 673	0.224	125	92	49	9	4
90	16	161 491 084	0.399	150	110	64	10	12
110	16	161 491 085	0.695	180	134	80	11	16



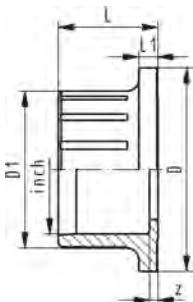
Valve end 546 Pro PVC-U (G02)
With solvent cement socket JIS

Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
½	16	161 490 745	0.009	38	27	20	4	4
¾	16	161 490 746	0.015	44	33	23	5	4
1	16	161 490 747	0.026	53	41	26	5	4
1 ¼	16	161 490 748	0.048	65	51	31	5	5
1 ½	16	161 490 749	0.072	77	62	34	6	3
2	16	161 490 750	0.137	99	77	41	7	3
2 ½	16	161 490 751	0.222	125	92	49	9	4
3	16	161 490 752	0.390	150	110	57	10	5
4	16	161 490 753	0.586	180	134	69	11	5



Valve end 546 Pro and 543 Pro PVC-U (G03)
With solvent cement socket Inch ASTM

Size (inch)	d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
¾	16	16	161 490 712	0.012	38	24	25	4	6
½	20	16	161 490 713	0.014	38	30	25	4	2
¾	25	16	161 490 714	0.020	44	35	28	5	3
1	32	16	161 490 715	0.031	53	43	31	5	3
1 ¼	40	16	161 490 716	0.046	65	53	34	5	3
1 ½	50	16	161 490 717	0.066	77	60	38	6	3
2	63	16	161 490 718	0.112	99	73	41	7	3
2 ½	75	16	161 490 719	0.241	125	92	49	9	4
3	90	16	161 490 720	0.394	150	110	57	10	9
4	110	16	161 490 721	0.582	180	134	69	11	11



Valve end 546 Pro and 543 Pro PVC-U (G04)
With solvent cement socket Inch BS

Size (inch)	d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
¾	16	16	161 490 734	0.009	38	23	18	4	2
½	20	16	161 490 735	0.010	38	27	20	4	2
¾	25	16	161 490 736	0.013	44	33	23	5	2
1	32	16	161 490 737	0.021	53	41	26	5	2
1 ¼	40	16	161 490 738	0.036	65	51	31	5	2
1 ½	50	16	161 490 739	0.071	77	62	34	6	4
2	63	16	161 490 740	0.135	99	77	41	7	5
	75	16	161 490 673	0.224	125	92	49	9	4
3	90	16	161 490 742	0.393	150	110	57	10	6
4	110	16	161 490 743	0.577	180	134	69	11	5



Valve end 546 Pro and 543 Pro PVC-U (G05) With solvent cement spigot metric

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	z (mm)
16	16	161 490 701	0.011	38	10	16	29	4	15
20	16	161 490 702	0.015	38	14	16	34	4	18
25	16	161 490 703	0.021	44	19	20	39	5	20
32	16	161 490 704	0.031	53	24	26	42	5	20
40	16	161 490 705	0.050	65	31	33	45	5	19
50	16	161 490 706	0.082	77	39	41	53	6	22
63	16	161 490 707	0.161	99	49	51	62	7	24
75	16	161 490 708	0.302	125	58	65	74	9	30
90	16	161 490 709	0.467	150	70	90	80	10	28
110	16	161 490 710	0.747	180	86	100	88	11	27

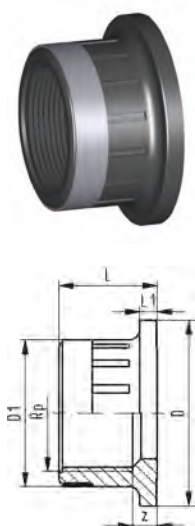


Valve end 546 Pro and 543 Pro PVC-U (G06) With threaded socket Rp

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

Rp (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D1 (mm)	D (mm)	L (mm)	L1 (mm)
3/8	10	161 490 690	0.011	7	24	38	20	4
1/2	10	161 490 691	0.013	6	28	38	22	4
3/4	10	161 490 692	0.019	7	34	44	25	5
1	10	161 490 693	0.031	7	42	53	28	5
1 1/4	10	161 490 694	0.047	7	52	65	30	5
1 1/2	10	161 490 695	0.074	9	63	77	32	6
2	10	161 490 696	0.129	10	78	99	38	7
2 1/2	10	161 490 697	0.255	18	92	125	49	9
3	10	161 490 698	0.436	23	110	150	57	10
4	10	161 490 699	0.645	29	134	180	69	11



Valve end 546 Pro and 543 Pro PVC-U (G07) With threaded socket Rp reinforced

Model:

- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PVC-U

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
3/8	16	161 490 825	0.013	38	24	20	4	7
1/2	16	161 490 826	0.016	38	28	22	4	6
3/4	16	161 490 827	0.023	44	34	25	5	7
1	16	161 490 828	0.036	53	42	28	5	7
1 1/4	16	161 490 829	0.058	65	52	30	5	7
1 1/2	16	161 490 830	0.084	77	63	32	6	9
2	16	161 490 831	0.166	99	78	38	7	10



Valve end 546 Pro and 543 Pro PVC-U (G08) With threaded socket Rc

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

PN (bar)	Rc (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
10	½	161 490 755	0.013	38	28	22	4	5
10	¾	161 490 756	0.019	44	34	25	5	7
10	1	161 490 757	0.041	53	42	28	5	7
10	1 ¼	161 490 758	0.047	65	52	30	5	6
10	1 ½	161 490 759	0.081	77	63	32	6	8
10	2	161 490 760	0.145	99	78	38	7	9
10	2 ½	161 490 761	0.261	125	58	49	9	18
10	3	161 490 762	0.444	150	110	57	10	23
10	4	161 490 763	0.682	180	134	69	11	29

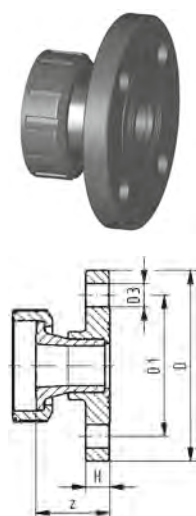


Valve end 546 Pro and 543 Pro PVC-U (G09) With threaded socket NPT

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

NPT (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
¾	10	161 490 723	0.014	38	26	21	4	7
½	10	161 490 724	0.017	38	33	21	4	4
¾	10	161 490 725	0.020	44	39	23	5	5
1	10	161 490 726	0.038	53	47	28	5	6
1 ¼	10	161 490 727	0.064	65	57	31	5	7
1 ½	10	161 490 728	0.087	77	65	34	6	11
2	10	161 490 729	0.146	99	77	41	7	17
2 ½	10	161 490 730	0.287	125	58	49	9	15
3	10	161 490 731	0.451	150	110	57	10	21
4	10	161 490 732	0.692	180	134	69	11	31

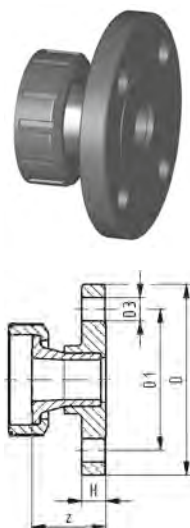


Valve end 546 Pro PVC-U (G60) Assembly with fixed flange PVC-U metric

Model:

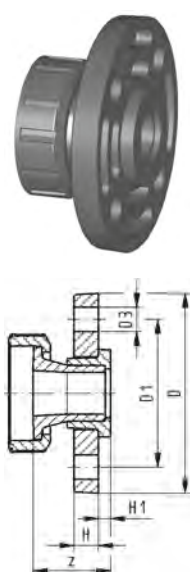
- Joint made with special adhesive Tangit for PVC-U
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- Combined jointing face: flat and serrated

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	z (mm)
20	15	16	161 486 360	0.131	95	65	14	12	37
25	20	16	161 486 361	0.175	105	75	14	13	42
32	25	16	161 486 362	0.254	115	85	14	15	45
40	32	16	161 486 363	0.417	140	100	18	17	48
50	40	16	161 486 364	0.548	150	110	18	18	56
63	50	16	161 486 365	0.862	165	125	18	20	65



Valve end 546 Pro PVC-U (G62) Assembly with fixed flange flat PVC-U Inch JIS

Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	z (mm)
½	15	16	161 486 350	0.160	95	60	14	11	37
¾	20	16	161 486 351	0.190	105	70	14	12	42
1	25	16	161 486 352	0.300	115	79	14	14	45
1 ¼	32	16	161 486 353	0.440	140	89	18	15	48
1 ½	40	16	161 486 354	0.550	140	105	18	18	62
2	50	16	161 486 355	0.830	165	121	18	18	65

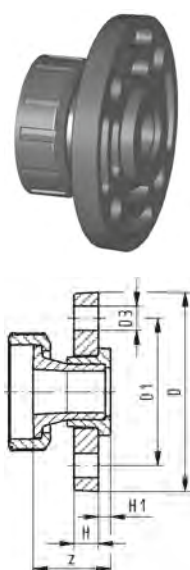


Valve end 546 Pro PVC-U (G70) Assembly with backing flange PVC-U metric

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
20	15	16	161 486 265	0.110	95	65	14	11	6	37
25	20	16	161 486 266	0.155	105	75	14	12	7	42
32	25	16	161 486 267	0.230	115	85	14	14	7	45
40	32	16	161 486 268	0.360	140	100	18	15	8	48
50	40	16	161 486 269	0.500	150	110	18	16	8	56
63	50	16	161 486 270	0.770	165	125	18	18	9	65
75	65	10	161 486 271	1.429	185	145	18	19	10	77
90	80	10	161 486 272	2.109	200	160	18	20	11	85
110	100	10	161 486 273	3.067	220	180	18	22	12	93

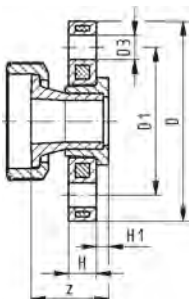


Valve end 546 Pro PVC-U (G71) Assembly with backing flange PVC-U Inch ANSI

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ANSI/ASME B 16.5, ASTM D 4024, BS 1560 (bolt circle 150 lbs)

Size (inch)	d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
½	20	10	161 486 275	0.110	95	60	14	11	6	37
¾	25	10	161 486 276	0.150	105	70	14	12	7	42
1	32	10	161 486 277	0.220	115	79	14	14	7	45
1 ¼	40	10	161 486 278	0.375	140	89	18	15	8	48
1 ½	50	10	161 486 279	0.495	150	98	18	16	8	56
2	63	10	161 486 280	0.760	165	121	18	18	9	65
2 ½	75	10	161 486 281	1.429	185	140	19	19	10	77
3	90	10	161 486 282	3.136	200	152	19	20	11	85
4	110	10	161 486 283	4.214	220	190	19	22	12	93

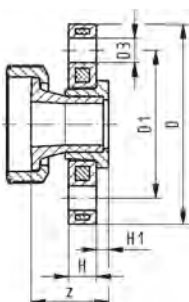


Valve end 546 Pro PVC-U (G72) Assembly with backing flange PP-st metric

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
20	15	16	161 486 285	0.259	95	65	14	12	6	37
25	20	16	161 486 286	0.325	105	75	14	12	7	42
32	25	16	161 486 287	0.530	115	85	14	16	7	45
40	32	16	161 486 288	0.786	140	100	18	16	8	48
50	40	16	161 486 289	1.070	150	110	18	18	8	56
63	50	16	161 486 290	1.529	165	125	18	18	9	65
75	65	16	161 486 291	2.319	185	145	18	18	10	77
90	80	16	161 486 292	2.905	200	160	18	20	11	85
110	100	16	161 486 293	4.079	220	180	18	20	12	93

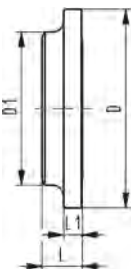


Valve end 546 Pro PVC-U (G73) Assembly with backing flange PP-st inch

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ANSI/ASME B 16.5, ASTM D 4024, BS 1560 (bolt circle 150 lbs)

Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
½	15	16	161 486 425	0.250	95	60	16	12	6	37
¾	20	16	161 486 426	0.310	105	70	16	12	7	42
1	25	16	161 486 427	0.520	115	79	16	16	7	45
1 ¼	32	16	161 486 428	0.835	140	89	16	16	8	48
1 ½	40	16	161 486 429	1.110	150	98	16	18	8	56
2	50	16	161 486 430	1.385	165	121	19	18	9	65
2 ½	65	16	161 486 431	2.319	185	140	19	18	10	77
3	80	16	161 486 432	2.905	200	152	19	20	11	85
4	100	16	161 486 433	4.079	229	190	19	20	12	93



Valve end blank 546 Pro and 543 Pro PVC-U (G80)

Model:

- Flat sealing faces

d (mm)	DN (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)
20	15	½	16	161 490 837	0.009	38	23	8	4
25	20	¾	16	161 490 838	0.014	44	33	10	5
32	25	1	16	161 490 839	0.021	53	41	11	5
40	32	1 ¼	16	161 490 840	0.034	65	51	11	5
50	40	1 ½	16	161 490 841	0.057	77	62	14	6
63	50	2	16	161 490 842	0.113	99	77	17	7

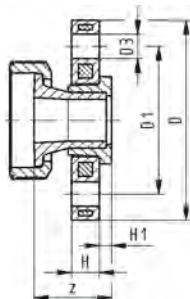


Valve end 546 Pro PVC-U (G78) Assembly with backing flange PVC-U JIS

Model:

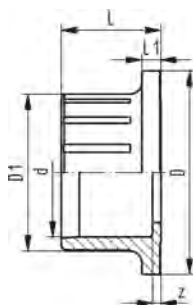
- Overall length according to EN 558
- Connecting dimensions: JIS B 2220, 10K

Size	DN	PN	Code	Weight	D	D1	D3	H	H1	z
(inch)	(mm)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
2 ½	65	10	161 486 201	1.354	185	140	19	21	2	63
3	80	10	161 486 202	2.109	185	150	19	31	1	82
4	100	10	161 486 203	3.067	210	175	19	34	1	105



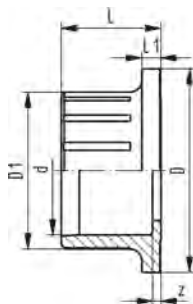
Valve end 546 Pro and 543 Pro PVC-C (G11) With solvent cement socket metric

d	PN	Code	Weight	z	D	L	D1	L1
(mm)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
16	16	163 481 275	0.009	4	38	18	23	4
20	16	163 481 276	0.011	4	38	20	27	4
25	16	163 481 277	0.016	4	44	23	33	5
32	16	163 481 278	0.025	4	53	26	41	5
40	16	163 481 279	0.043	5	65	31	51	5
50	16	163 481 280	0.072	3	77	34	62	6
63	16	163 481 281	0.128	3	99	41	77	7
75	16	163 481 282	0.249	4	125	49	92	9
90	16	163 481 283	0.416	5	150	57	110	10
110	16	163 481 284	0.705	5	180	69	134	11



Valve end 546 Pro PVC-C (G12) With solvent cement socket JIS

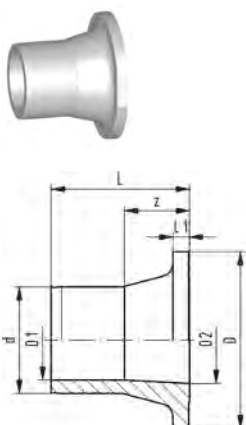
PN	Size	DN	Code	Weight	z	D1	D2	L1	D	L
(bar)	(inch)	(mm)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	½	15	163 481 333	0.009	4	27	16	4	38	20
16	¾	20	163 481 334	0.015	4	33	20	4	44	23
16	1	25	163 481 335	0.026	4	41	26	5	53	26
16	1 ¼	32	163 481 336	0.048	4	51	33	4	65	30
16	1 ½	40	163 481 337	0.072	3	62	41	6	77	34
16	2	50	163 481 338	0.137	3	77	51	6	99	41
16	2 ½	65	163 481 339	0.245	4	92	65	9	125	49
16	3	80	163 481 340	0.430	5	110	82	10	150	57
16	4	100	163 481 341	0.645	5	134	100	11	180	69





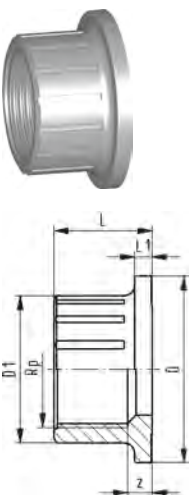
Valve end 546 Pro and 543 Pro PVC-C (G13) With solvent cement socket Inch ASTM

d (mm)	PN (bar)	Size (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	16	3/8	163 481 311	0.012	38	24	25	4	6
20	16	1/2	163 481 312	0.014	38	30	25	4	2
25	16	3/4	163 481 313	0.020	44	35	28	5	3
32	16	1	163 481 314	0.034	53	43	31	5	3
40	16	1 1/4	163 481 315	0.050	65	53	34	5	3
50	16	1 1/2	163 481 316	0.072	77	60	38	6	3
63	16	2	163 481 317	0.122	99	73	41	7	3
75	16	2 1/2	163 481 318	0.266	125	92	49	9	4
90	16	3	163 481 319	0.394	150	110	57	10	8
110	16	4	163 481 320	0.651	180	134	69	11	11



Valve end 546 Pro and 543 Pro PVC-C (G14) With solvent cement spigot metric

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	z (mm)
16	16	163 481 300	0.012	38	10	16	29	4	15
20	16	163 481 301	0.015	38	14	16	34	4	18
25	16	163 481 302	0.023	44	19	20	39	5	20
32	16	163 481 303	0.035	53	24	26	42	5	20
40	16	163 481 304	0.054	65	31	33	45	5	19
50	16	163 481 305	0.091	77	39	41	53	6	22
63	16	163 481 306	0.172	99	49	51	62	7	24
75	16	163 481 307	0.333	125	58	65	74	9	30
90	16	163 481 308	0.515	150	70	90	80	10	28
110	16	163 481 309	0.822	180	86	100	88	11	27

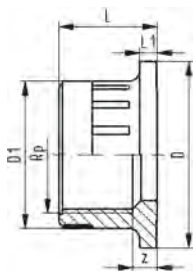


Valve end 546 Pro and 543 Pro PVC-C (G15) With threaded socket Rp

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-C

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
3/8	10	163 481 286	0.011	38	24	20	4	7
1/2	10	163 481 287	0.013	38	28	22	4	6
3/4	10	163 481 288	0.019	44	34	25	5	7
1	10	163 481 289	0.031	53	42	28	5	7
1 1/4	10	163 481 290	0.047	65	52	30	5	7
1 1/2	10	163 481 291	0.081	77	63	32	6	9
2	10	163 481 292	0.150	99	78	38	7	10
2 1/2	10	163 481 293	0.282	125	58	49	9	19
3	10	163 481 294	0.481	150	110	57	10	23
4	10	163 481 295	0.735	180	134	69	11	29

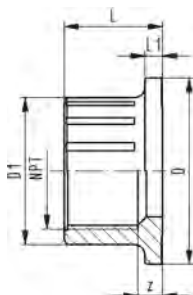


Valve end 546 Pro and 543 Pro PVC-C (G16) With threaded socket Rp reinforced

Model:

- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PVC-C

PN (bar)	Rp (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z
16	¾	163 481 400	0.014	38	24	20	4	7
16	½	163 481 401	0.018	38	28	22	4	6
16	¾	163 481 402	0.025	44	34	25	5	7
16	1	163 481 403	0.044	53	42	28	5	7
16	1 ¼	163 481 404	0.064	65	52	30	5	7
16	1 ½	163 481 405	0.106	77	63	32	6	9
16	2	163 481 406	0.182	99	78	38	7	10

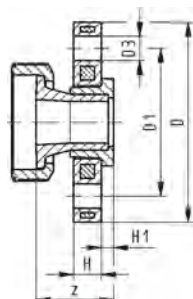


Valve end 546 Pro and 543 Pro PVC-C (G17) With threaded socket NPT

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-C

NPT (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D1 (mm)	L1 (mm)	D (mm)	L (mm)
¾	10	163 481 322	0.014	7	26	4	38	21
½	10	163 481 323	0.019	4	33	4	38	21
¾	10	163 481 324	0.026	5	39	5	44	23
1	10	163 481 325	0.043	6	47	5	53	28
1 ¼	10	163 481 326	0.064	7	57	5	65	31
1 ½	10	163 481 327	0.093	11	65	6	77	34
2	10	163 481 328	0.157	17	77	7	99	41
2 ½	10	163 481 329	0.317	15	58	9	125	49
3	10	163 481 330	0.497	21	110	10	150	57
4	10	163 481 331	0.763	31	134	11	180	69

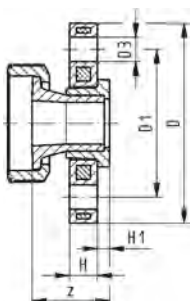


Valve end 546 Pro PVC-C (G72) Assembly with backing flange PP-St metric

Model:

- Joint made with special adhesive Tangit for PVC-C
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

PN (bar)	DN (mm)	d (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z
16	15	20	163 481 412	0.265	95	65	14	12	6	37
16	20	25	163 481 413	0.330	105	75	14	12	7	42
16	25	32	163 481 414	0.540	115	85	14	16	7	45
16	32	40	163 481 415	0.820	140	100	18	16	8	48
16	40	50	163 481 416	1.075	150	110	18	18	8	56
16	50	63	163 481 417	1.435	165	125	18	18	9	65
16	65	75	163 481 418	2.419	185	145	18	18	10	77
16	80	90	163 481 419	3.159	200	160	18	20	11	85
16	100	110	163 481 420	4.307	220	180	18	20	12	93

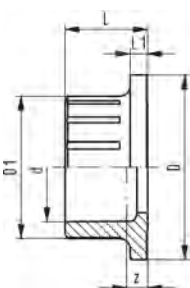


Valve end 546 Pro PVC-C (G73) Assembly with backing flange PP-St Inch ANSI

Model:

- Joint made with special adhesive Tangit for PVC-C
- Connecting dimensions: ANSI/ASME B 16.5, ASTM D 4024, BS 1560 (bolt circle 150 lbs)

Size (inch)	PN (bar)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
½	16	15	163 481 425	0.255	95	60	16	12	6	37
¾	16	20	163 481 426	0.316	105	70	16	12	7	42
1	16	25	163 481 427	0.530	115	79	16	16	7	45
1 ¼	16	32	163 481 428	0.823	140	89	16	16	8	47
1 ½	16	40	163 481 429	1.135	150	98	16	18	8	56
2	16	50	163 481 430	1.435	165	121	19	18	9	65
2 ½	16	65	163 481 431	2.459	185	140	19	18	10	77
3	16	80	163 481 432	3.309	200	152	19	20	11	85
4	16	100	163 481 433	4.557	229	190	19	20	12	93

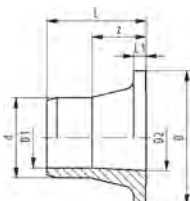


PROGEF Standard Valve end 546 Pro and 543 Pro (G30) With fusion socket metric

Model:

- Material: PP-H

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	10	167 482 900	0.006	38	23	19	4	5
20	10	167 482 901	0.007	38	27	20	4	5
25	10	167 482 902	0.011	44	33	22	5	6
32	10	167 482 903	0.011	53	41	24	5	6
40	10	167 482 904	0.025	65	51	26	5	7
50	10	167 482 905	0.040	77	62	29	6	8
63	10	167 482 906	0.070	99	77	34	7	6
75	10	167 482 907	0.168	125	92	49	9	20
90	10	167 482 908	0.272	150	110	57	10	24
110	10	167 482 909	0.467	180	134	69	11	30

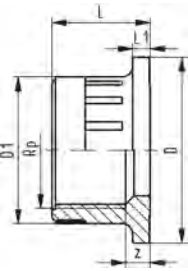
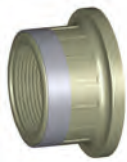


PROGEF Standard Valve end 546 Pro and 543 Pro (G32) With socket fusion spigot metric

Model:

- Material: PP-H

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)
16	10	167 482 922	0.007	38	10	16	27	4	13	14
20	10	167 482 923	0.009	38	14	16	32	4	14	18
25	10	167 482 924	0.013	44	19	20	37	5	16	21
32	10	167 482 925	0.020	53	24	26	40	5	18	22
40	10	167 482 926	0.032	65	31	33	43	5	20	23
50	10	167 482 927	0.055	77	39	41	51	6	23	28
63	10	167 482 928	0.103	99	49	51	60	7	27	33
75	10	167 482 929	0.195	125	58	65	72	9	48	24
90	10	167 482 930	0.307	150	70	90	78	10	48	29
110	10	167 482 931	0.495	180	86	100	86	11	54	32

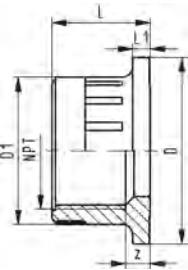
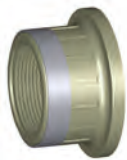


PROGEF Standard
Valve end 546 Pro and 543 Pro (G33)
With threaded socket Rp reinforced

Model:

- Material: PP-H
- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PP

PN (bar)	Rp (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	¾	167 482 911	0.013	38	24	20	4	7
16	½	167 482 912	0.009	38	28	21	4	6
16	¾	167 482 913	0.016	44	34	23	5	7
16	1	167 482 914	0.024	53	42	28	5	7
16	1 ¼	167 482 915	0.037	65	52	31	5	7
16	1 ½	167 482 916	0.052	77	63	34	6	9
16	2	167 482 917	0.118	99	78	41	7	10

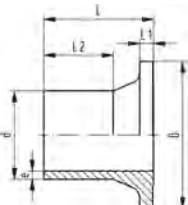


PROGEF Standard
Valve end 546 Pro and 543 Pro (G34)
With threaded socket NPT reinforced

Model:

- Material: PP-H
- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PP

NPT (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
¾	16	167 482 966	0.008	38	26	20	4	7
½	16	167 482 967	0.012	38	33	21	4	4
¾	16	167 482 968	0.016	44	39	23	5	5
1	16	167 482 969	0.027	53	47	28	5	6
1 ¼	16	167 482 970	0.037	65	57	31	5	7
1 ½	16	167 482 971	0.052	77	65	34	6	11
2	16	167 482 972	0.091	99	77	41	7	17

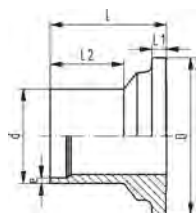


PROGEF Standard
Valve end 546 Pro and 543 Pro (G35)
With butt fusion spigot IR-Plus® SDR11 metric

Model:

- Material: PP-H

d (mm)	PN (bar)	FM	Code	Weight (kg)	L2 (mm)	e (mm)	L1 (mm)	D (mm)	L (mm)
20	10	IR	167 482 945	0.007	25	1.9	4	38	37
25	10	IR	167 482 946	0.011	25	2.3	5	44	39
32	10	IR	167 482 947	0.020	25	2.9	5	53	40
40	10	IR	167 482 948	0.041	25	3.7	5	65	43
50	10	IR	167 482 949	0.052	25	4.6	6	77	51
63	10	IR	167 482 950	0.099	28	5.8	7	99	60
75	10	IR	167 482 951	0.193	41	6.8	9	125	65
90	10	IR	167 482 952	0.270	33	8.2	10	150	62
110	10	IR	167 482 953	0.421	37	10.0	11	180	69

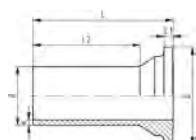


PROGEF Standard
Valve end 546 Pro and 543 Pro (G36)
With butt fusion spigot IR-Plus® SDR17.6 metric

Model:

- Material: PP-H

d	PN	FM	Code	Weight	D	L	L1	L2	e
(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
40	6	IR	167 482 937	0.032	65	43	5	25	2.3
50	6	IR	167 482 938	0.050	77	51	6	25	2.9
63	6	IR	167 482 939	0.099	99	60	7	28	3.6
75	6	IR	167 482 940	0.189	125	65	9	41	4.3
90	6	IR	167 482 941	0.265	150	62	10	33	5.1
110	6	IR	167 482 942	0.418	180	69	11	37	6.3

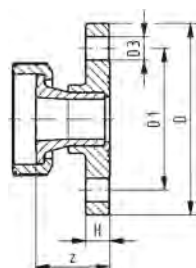


PROGEF Standard
Valve end 546 Pro and 543 Pro (G37)
With butt fusion spigot long SDR11 metric

Model:

- Material: PP-H

d	PN	Code	Weight	e	L1	D	L	L2
(mm)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
20	10	167 482 956	0.012	2.3	4	38	69	53
25	10	167 482 957	0.020	2.3	5	44	76	58
32	10	167 482 958	0.029	2.9	5	53	76	58
40	10	167 482 959	0.048	3.7	5	65	82	61
50	10	167 482 960	0.082	4.6	6	77	91	63
63	10	167 482 961	0.154	5.8	7	99	110	77

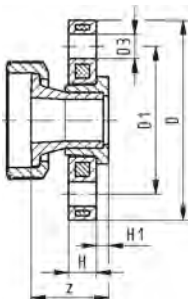


PROGEF Standard
Valve end 546 Pro (G63)
With fixed flange PP-H metric

Model:

- Material: PP-H
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Combined jointing face: flat and serrated

d	DN	PN	Code	Weight	D	D1	D3	H	z
(mm)	(mm)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
20	15	10	167 484 160	0.090	94	65	14	12	37
25	20	10	167 484 161	0.115	103	75	14	13	42
32	25	10	167 484 162	0.170	115	85	14	14	45
40	32	10	167 484 163	0.275	138	100	18	15	48
50	40	10	167 484 164	0.355	148	110	18	16	56
63	50	10	167 484 165	0.159	163	125	18	18	65

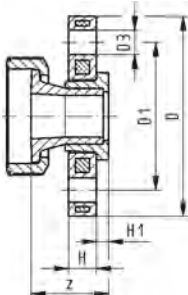


PROGEF Standard
Valve end 546 Pro (G72)
Assembly with backing flange PP-St metric

Model:

- Material: PP-H
- Overall length according to EN 558 (basic series: row 1)
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

DN (mm)	PN (bar)	d (mm)	Code	Weight (kg)	H1 (mm)	D1 (mm)	H (mm)	z (mm)	D (mm)	D3 (mm)
65	10	75	167 484 418	1.834	16	145	18	77	185	18
80	10	90	167 484 419	2.592	17	160	20	85	200	18
100	10	110	167 484 420	3.272	18	180	20	93	220	18

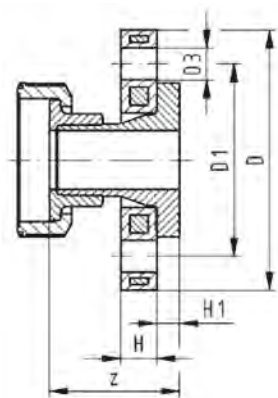


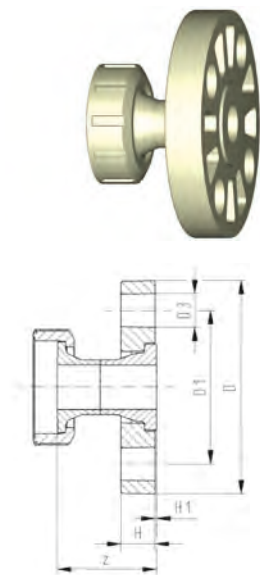
PROGEF Standard
Valve end 546 Pro (G73)
With backing flange PP-St inch ANSI

Model:

- Material: PP-H
- DN15-50 overall length **NOT** according to EN 558
- DN 65-100 overall length according to EN 558

Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
½	15	10	167 484 065	0.224	95	60	16	12	7	54
¾	20	10	167 484 066	0.307	105	70	16	12	9	55
1	25	10	167 484 067	0.506	115	79	16	16	10	58
1 ¼	32	10	167 484 068	0.813	140	89	16	16	11	60
1 ½	40	10	167 484 069	1.160	150	98	19	18	12	66
2	50	10	167 484 070	1.290	165	121	19	18	14	68
2 ½	65	10	167 484 071	2.161	185	140	19	18	16	77
3	80	10	167 484 072	2.818	200	152	19	20	17	85
4	100	10	167 484 073	3.741	229	190	19	20	18	93



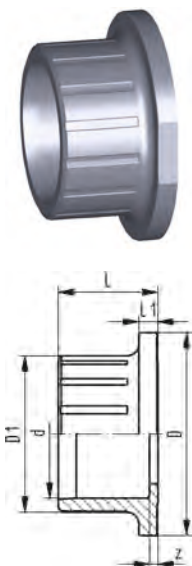


PROGEF Standard
Valve end 546 Pro (G77)
Assembly with backing flange PP JIS

Model:

- Material: PP-H
- Overall length according to EN 558
- Connecting dimensions: JIS B 2220, 10K

Size (inch)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
½	15	167 484 019	0.114	95	70	15	16	1	44
¾	20	167 484 020	0.141	100	75	15	18	1	53
1	25	167 484 021	0.231	125	90	19	20	1	58
1 ¼	32	167 484 022	0.306	135	100	19	21	1	53
1 ½	40	167 484 023	0.358	140	105	19	21	1	62
2	50	167 484 024	0.533	155	120	19	21	1	67
2 ½	65	167 484 481	1.211	175	140	19	29	1	77
3	80	167 484 482	1.688	185	150	19	30	1	85
4	100	167 484 483	2.471	210	175	19	34	1	93



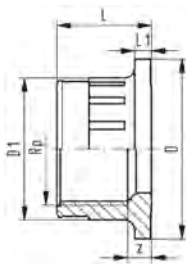
ABS valve end 546 Pro and 543 Pro (G20)
With solvent cement socket metric

d (mm)	PN (bar)	Code	Weight (kg)	D1 (mm)	z (mm)	L (mm)	D (mm)	L1 (mm)
16	10	169 480 775	0.006	23	4	18	38	4
20	10	169 480 776	0.008	27	4	20	38	4
25	10	169 480 777	0.012	33	4	22	44	5
32	10	169 480 778	0.019	41	4	26	53	5
40	10	169 480 779	0.031	51	5	31	65	5
50	10	169 480 780	0.047	62	3	34	77	6
63	10	169 480 781	0.086	77	3	41	99	7
75	10	169 480 782	0.175	92	4	49	125	9
90	10	169 480 783	0.292	110	5	57	150	10
110	10	169 480 784	0.495	134	5	69	180	11



ABS valve end 546 Pro and 543 Pro (G21)
With solvent cement socket Inch BS

d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	¾	10	169 480 800	0.007	38	23	18	4	2
20	½	10	169 480 801	0.007	38	27	20	4	2
25	¾	10	169 480 802	0.011	44	33	23	5	2
32	1	10	169 480 803	0.017	53	41	26	5	2
40	1 ¼	10	169 480 804	0.026	65	51	31	5	2
50	1 ½	10	169 480 805	0.052	77	62	34	6	4
63	2	10	169 480 806	0.100	99	77	41	7	5
75	2 ½	10	169 480 782	0.175	125	92	49	9	4
90	3	10	169 480 808	0.300	150	110	57	10	6
110	4	10	169 480 809	0.446	180	134	69	11	5

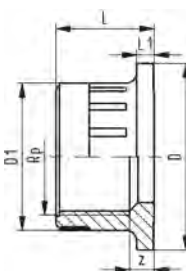


ABS valve end 546 Pro and 543 Pro (G22) With threaded socket Rp

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to ABS

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
3/8	10	169 480 786	0.008	38	24	20	4	7
1/2	10	169 480 787	0.009	38	28	22	4	6
3/4	10	169 480 788	0.014	44	34	25	5	7
1	10	169 480 789	0.023	53	42	28	5	7
1 1/4	10	169 480 790	0.034	65	52	30	5	7
1 1/2	10	169 480 791	0.059	77	63	32	6	9
2	10	169 480 792	0.109	99	78	38	7	10

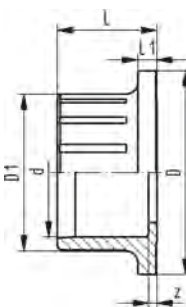


ABS valve end 546 Pro and 543 Pro (G23) With threaded socket Rp reinforced

Model:

- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to ABS

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
3/8	16	169 480 925	0.008	38	24	20	4	7
1/2	16	169 480 926	0.010	38	28	22	4	6
3/4	16	169 480 927	0.014	44	34	25	5	7
1	16	169 480 928	0.023	53	42	28	5	7
1 1/4	16	169 480 929	0.035	65	52	30	5	7
1 1/2	16	169 480 930	0.077	77	63	32	6	9
2	16	169 480 931	0.130	99	78	38	7	10

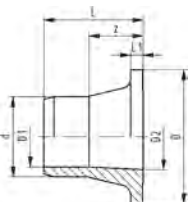


SYGEF Standard Valve end 546 Pro and 543 Pro (G50) With fusion socket metric

Model:

- Material: PVDF

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	16	175 483 025	0.013	38	23	19	4	5
20	16	175 483 026	0.013	38	27	20	4	5
25	16	175 483 027	0.014	44	33	22	5	6
32	16	175 483 028	0.032	53	41	24	5	6
40	16	175 483 029	0.052	65	51	26	5	7
50	16	175 483 030	0.094	77	62	29	6	8
63	16	175 483 031	0.180	99	77	34	7	8
75	16	175 483 032	0.324	125	92	49	9	20
90	16	175 483 033	0.527	150	110	57	10	24
110	16	175 483 034	0.909	180	134	69	11	30

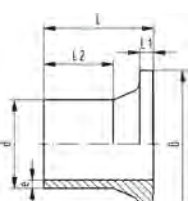


SYGEF Standard
Valve end 546 Pro and 543 Pro (G51)
With socket fusion spigot metric

Model:

- Material: PVDF

PN	d	Code	Weight	D	D1	D2	L	L1	L2	z
(bar)	(mm)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	16	175 483 036	0.014	38	10	16	27	4	13	14
16	20	175 483 037	0.018	38	14	16	32	4	14	18
16	25	175 483 038	0.025	44	19	20	37	5	16	21
16	32	175 483 039	0.047	53	24	26	40	5	18	22
16	40	175 483 040	0.065	65	31	33	43	5	20	23
16	50	175 483 041	0.112	77	39	41	51	6	23	28
16	63	175 483 042	0.210	99	49	51	60	7	27	33

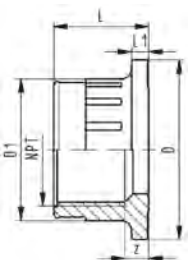


SYGEF Standard
Valve end 546 Pro and 543 Pro (G52)
With butt fusion spigot IR-Plus® metric

Model:

- Material: PVDF

d	PN	FM	Code	Weight	D	L	L1	L2	e
(mm)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
20	16	IR	175 483 048	0.016	38	37	4	25	1.9
25	16	IR	175 483 049	0.021	44	39	5	25	1.9
32	16	IR	175 483 050	0.035	53	40	5	25	2.4
40	16	IR	175 483 051	0.058	65	43	5	25	2.4
50	16	IR	175 483 052	0.101	77	51	6	25	3.0
63	16	IR	175 483 053	0.187	99	60	7	28	3.0
75	16	IR	175 483 054	0.348	125	65	9	41	3.6
90	16	IR	175 483 055	0.507	150	62	10	33	4.3
110	16	IR	175 483 056	0.820	180	69	11	37	5.3

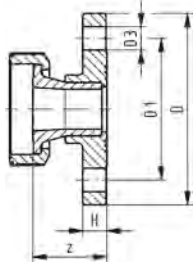


SYGEF Standard
Valve end 546 Pro and 543 Pro (G53)
With threaded socket NPT

Model:

- Material: PVDF
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVDF

PN	NPT	Code	Weight	D	D1	D2	L	L1	z
(bar)	(inch)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
10	3/8	175 483 058	0.010	38	26	14	20	4	6
10	1/2	175 483 059	0.017	38	33	16	21	4	4
10	3/4	175 483 060	0.022	44	39	20	23	5	5
10	1	175 483 061	0.040	53	47	26	28	5	6
10	1 1/4	175 483 062	0.070	65	55	33	31	5	8
10	1 1/2	175 483 063	0.100	77	65	41	34	6	11
10	2	175 483 064	0.180	99	77	51	41	7	17

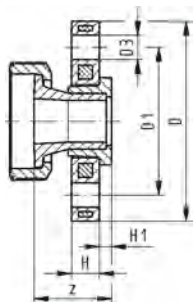


SYGEF Standard
Valve end 546 Pro (G64)
With fixed flange PVDF metric

Model:

- Material: PVDF
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Combined jointing face: flat and serrated

d	PN	DN	Code	Weight	D	D1	D3	H	z
(mm)	(bar)	(mm)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
20	16	15	175 483 285	0.170	93	65	14	12	37
25	16	20	175 483 286	0.230	103	75	14	13	42
32	16	25	175 483 287	0.330	115	85	14	14	45
40	16	32	175 483 288	0.540	137	100	18	15	48
50	16	40	175 483 289	0.710	147	110	18	16	56
63	16	50	175 483 290	1.120	162	125	18	18	65

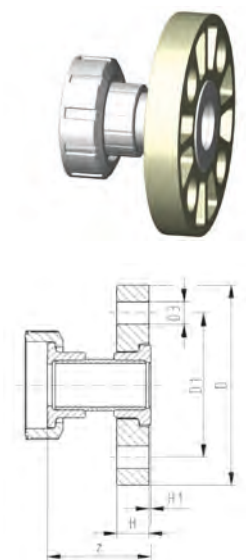


SYGEF Standard
Valve end 546 Pro (G72)
Assembly with backing flange PP-St metric

Model:

- Material: PVDF
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

PN	DN	d	Code	Weight	D3	H1	D1	H	z	D
(bar)	(mm)	(mm)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
16	65	75	175 483 294	3.588	18	16	145	18	77	185
16	80	90	175 483 295	5.071	18	17	160	20	85	200
16	100	110	175 483 296	6.401	18	18	180	20	93	220

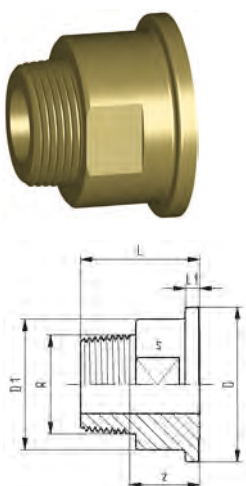


SYGEF Standard
Valve end 546 Pro (G76)
Assembly with backing flange PP JIS

Model:

- Material: PVDF

DN (mm)	Size (inch)	Code	Weight (kg)	D (mm)	H (mm)	z (mm)	H1 (mm)	D1 (mm)	D3 (mm)
15	½	175 483 124	0.134	95	16	52	1	70	15
20	¾	175 483 125	0.181	100	18	57	1	75	15
25	1	175 483 126	0.295	125	20	65	1	90	19
32	1 ¼	175 483 127	0.410	135	21	68	1	100	19
40	1 ½	175 483 128	0.546	140	21	81	1	105	19
50	2	175 483 129	0.858	155	21	85	1	120	19



Brass valve end 546 Pro and 543 Pro With threaded spigot R

Model:

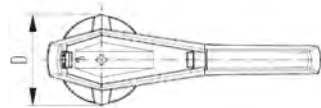
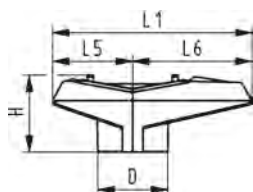
- Connection to metal threads

Size (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	L1 (mm)	L (mm)	z (mm)	SW (mm)
½	161 486 640	0.144	38	32	4	36	23	30
¾	161 486 641	0.201	44	38	5	36	22	36
1	161 486 642	0.326	53	45	5	41	24	41
1 ¼	161 486 643	0.600	65	56	5	47	26	50
1 ½	161 486 644	0.870	77	64	6	53	31	60
2	161 486 645	1.460	99	72	7	64	37	65

Handle and handle extensions



DN10/15 - 50



Lever 546

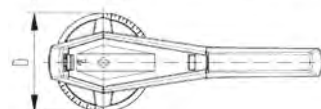
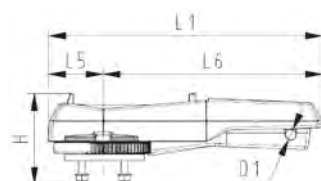
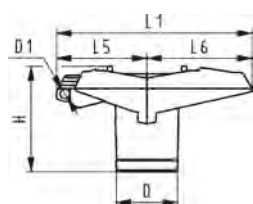
Model:

- Spare part for ball valve 546

DN (mm)	d (mm)	red (K01) Code	black (K02) Code	Weight (kg)	H (mm)	L5 (mm)	L1 (mm)	D (mm)	L6 (mm)
10 - 15	16 - 20	167 484 088	167 484 076	0.012	31	32	77	26	45
20	25	167 484 089	167 484 077	0.022	37	39	97	34	58
25	32	167 484 090	167 484 078	0.022	37	39	97	34	58
32	40	167 484 091	167 484 079	0.042	46	54	128	40	74
40	50	167 484 092	167 484 080	0.042	46	54	128	40	74
50	63	167 484 093	167 484 081	0.059	54	66	152	44	87
65	75	167 484 094	167 484 082	0.250	58	64	270	106	206
80	90	167 484 095	167 484 083	0.250	58	64	270	106	206
100	110	167 484 096	167 484 084	0.298	60	64	320	106	256



DN10/15 - 50



Multifunctional lever 546 red (K11) With ratchet settings lockable

Note:

To retrofit the ball valve 546 with the multifunctional handle a multifunction module is necessary in the dimensions DN65-100

Code 161 486 690 is compatible with the Butterfly Valve Type 567/578, dimension d63 DN50 - d90 DN80

Code 161 486 691 is compatible with the Butterfly Valve Type 567/578, dimension d110 DN100 - d140 DN125

d-d (mm)	DN-DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	L1 (mm)	L5 (mm)	L6 (mm)
16 - 20	10 - 15	167 484 100	0.026	26	5	53	87	42	45
-- 25	-- 20	167 484 101	0.045	34	5	59	108	50	58
-- 32	-- 25	167 484 102	0.047	34	5	59	108	50	58
-- 40	-- 32	167 484 103	0.091	40	5	69	140	66	75
-- 50	-- 40	167 484 104	0.080	40	5	69	140	66	75
-- 63	-- 50	167 484 105	0.124	44	5	80	165	78	87
-- 75	-- 65	161 486 689	0.468	115	12	105	270	64	206
-- 90	-- 80	161 486 690	0.467	115	12	105	270	64	206
110 - 140	100 - 125	161 486 691	0.543	115	12	107	320	64	256

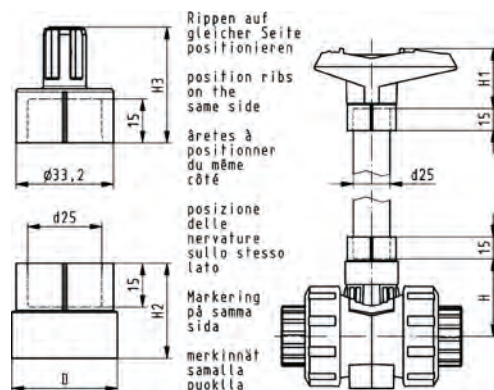


Handle extension 546 and 543 PVC-U metric

Model:

- For ball valve type 546 and 543
- Composed of adapter sockets for handle connection and stem connection
- PVC-U pipe in suitable length has to be obtained on site

DN-DN (mm)	d-d (mm)	Code	Weight (kg)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	D (mm)
10 - 15	16 - 20	161 486 435	0.030	41	52	29	36	26
20 - 25	25 - 32	161 486 436	0.029	50	62	32	39	36
32 - 40	40 - 50	161 486 437	0.045	65	76	34	44	40
-- 50	-- 63	161 486 438	0.059	84	87	37	48	44



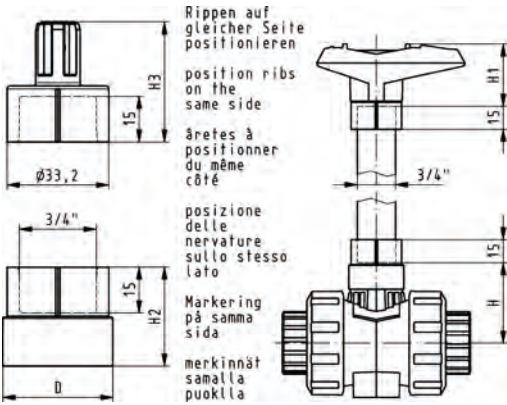
Handle extension 546 PVC-U inch BS/ASTM

Model:

- For ball valve type 546

Includes upper and lower extension adapter, does not include 3/4" pipe

DN-DN	Inch	Code	Weight	H	H1	H2	H3	D
(mm)	(inch)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
10 - 15	3/8-1/2	161 486 443	0.032	41	52	29	36	26
20 - 25	3/4-1	161 486 444	0.030	50	62	32	39	36
32 - 40	1 1/4-1 1/2	161 486 445	0.047	65	76	34	44	40
50	2	161 486 446	0.058	84	87	37	48	44



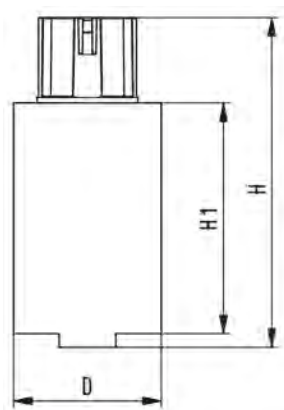


Handle extension for ball valve type 546 PVC-U DN65 - DN100

Model:

- Height variable
- Multiple use in succession possible

d-d (mm)	DN-DN (mm)	Code	Weight (kg)	H (mm)	D (mm)	H1 (mm)
75 - 90	65 - 80	161 490 920	0.323	143	58	100
-- 110	-- 100	161 490 921	0.413	143	64	100



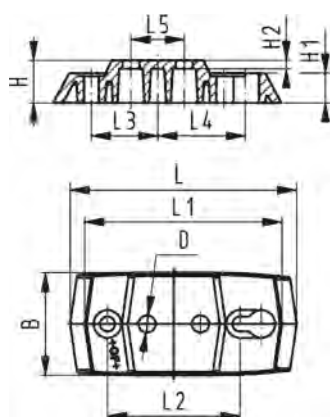
Mounting plates



Mounting plate 546 Pro and 543 PP-GF (L02)

- 2 mounting screws inclusive

d-d (mm)	Inch (inch)	DN-DN (mm)	Code	Weight (kg)
16 - 32	3/8 - 1	10 - 25	167 484 110	0.054
40 - 63	1 1/4 - 2	32 - 50	167 484 111	0.066



d-d (mm)	Inch (inch)	B (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)
16 - 32	3/8 - 1	48	8	20	14	4	106	92	62	31	41	25
40 - 63	1 1/4 - 2	54	9	20	14	4	149	134	104	52	62	45

Mounting inserts

Mounting insert

Model:

- * 1 bag with 10 piece
- Material: A2
- to retrofit the fixing: ball valve type 546

	d-d (mm)	Code	Weight (kg)	A (mm)	E (mm)	L (mm)
	16 - 32	161 486 014	0.002	6	10	12
*	16 - 32	161 486 538	0.020	6	10	12
	40 - 90	161 481 448	0.005	8	12	15
*	40 - 90	161 486 539	0.020	8	12	15
*	-- 110	161 486 540	0.020			

Face seals



Face seal

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10 - 15	748 410 059	0.002	749 410 059	0.002
25	20	748 410 106	0.002	749 410 106	0.002
32	25	748 410 151	0.070	749 410 151	0.002
40	32	748 410 062	0.002	749 410 062	0.002
50	40	748 410 003	0.004	749 410 003	0.002
63	50	748 410 231	0.005	749 410 231	0.008

Spare parts unions

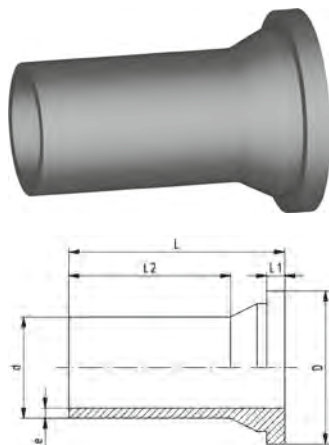
Connecting parts and subassembly type 375

Valve ends ball valve type 375



Valve end 375 PVC-U
Solvent cement socket metric

d	DN	PN	Code	Weight	D	D1	L	L1	z
(mm)	(mm)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
16	10	16	161 375 901	0.012	35	26	18	5	4
20	15	16	161 375 902	0.009	35	29	18	5	2
25	20	16	161 375 903	0.015	43	35	21	5	2
32	25	16	161 375 904	0.025	51	43	24	6	2
40	32	16	161 375 905	0.042	60	52	29	6	3
50	40	16	161 375 906	0.061	72	62	34	7	3
63	50	16	161 375 907	0.100	89	76	41	7	3
75	65	10	161 375 908	0.176	115	90	47	8	3
90	80	10	161 375 909	0.280	133	106	56	10	5
110	100	10	161 375 910	0.510	166	130	66	12	5



Valve end 375 PVC-U
Butt fusion spigot long
PE100 SDR11 metric

d	PN	Code	Weight	D	L	L1	L2	e
(mm)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
20	16	161 375 932	0.020	36	67	6	45	1.9
25	16	161 375 933	0.025	44	74	6	50	2.3
32	16	161 375 934	0.040	52	97	7	72	2.9
40	16	161 375 935	0.055	61	86	7	63	3.7
50	16	161 375 936	0.092	73	97	8	72	4.6
63	16	161 375 937	0.142	90	96	9	75	5.8
75	16	161 375 938	0.278	116	119	10	88	6.8
90	16	161 375 939	0.120	134	112	12	82	8.2
110	16	161 375 940	0.711	168	131	15	96	10.0



Valve end 375 PVC-U
Threaded socket NPT

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

NPT	PN	Code	Weight	D	D1	L	L1	z
(inch)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
3/8	10	161 375 437	0.011	35	26	18	5	5
1/2	10	161 375 438	0.012	35	30	24	5	6
3/4	10	161 375 439	0.019	43	36	21	5	5
1	10	161 375 440	0.027	51	44	24	6	5
1 1/4	10	161 375 441	0.039	60	53	27	6	6
1 1/2	10	161 375 442	0.062	72	64	27	7	6
2	10	161 375 443	0.100	89	77	31	7	5
2 1/2	10	161 375 444	0.176	115	90	36	8	6
3	10	161 375 445	0.262	133	106	41	10	8
4	10	161 375 446	0.406	166	130	47	12	8

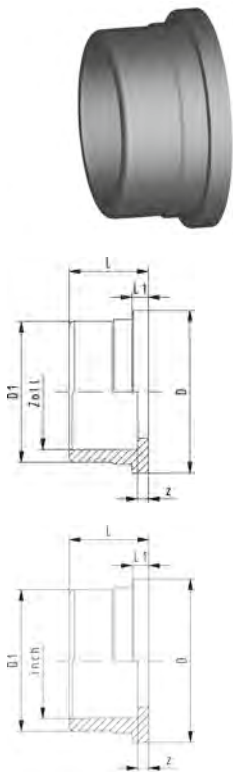


Valve end 375 PVC-U Threaded socket Rp

Model:

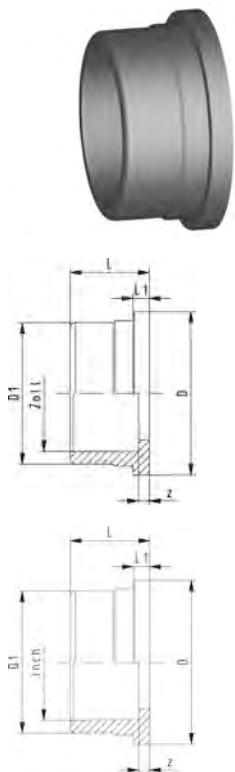
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
3/8	10	161 375 921	0.012	35	26	18	5	7
1/2	10	161 375 922	0.011	33	30	18	5	3
3/4	10	161 375 923	0.017	43	36	21	5	5
1	10	161 375 924	0.027	51	44	24	6	5
1 1/4	10	161 375 925	0.042	60	53	27	6	6
1 1/2	10	161 375 926	0.059	72	63	27	7	6
2	10	161 375 927	0.102	89	77	31	7	5
2 1/2	10	161 375 928	0.158	115	90	36	8	6
3	10	161 375 929	0.244	133	106	41	10	8
4	10	161 375 930	0.389	166	130	47	12	8



Valve end 375 PVC-U Solvent cement socket ASTM

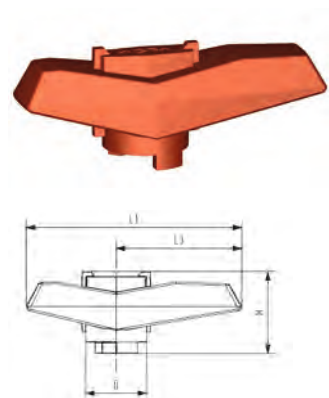
Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
3/8	16	161 375 427	0.013	35	26	23	5	4
1/2	16	161 375 428	0.013	35	29	25	5	2
3/4	16	161 375 429	0.020	43	35	28	5	2
1	16	161 375 430	0.029	51	43	31	6	2
1 1/4	16	161 375 431	0.042	60	53	34	6	2
1 1/2	16	161 375 432	0.071	72	62	38	7	3
2	16	161 375 433	0.117	89	76	41	7	3
2 1/2	10	161 375 434	0.194	114	90	48	8	3
3	10	161 375 435	0.288	133	106	57	10	8
4	10	161 375 436	0.456	165	130	66	12	5



Valve end 375 PVC-U Solvent cement socket BS

Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
¾	16	161 375 911	0.012	35	26	18	5	4
½	16	161 375 912	0.011	35	29	18	5	2
¾	16	161 375 913	0.016	43	35	21	5	2
1	16	161 375 914	0.024	51	43	24	6	2
1 ¼	16	161 375 915	0.038	60	52	29	6	2
1 ½	16	161 375 916	0.066	72	62	34	7	3
2	16	161 375 917	0.113	89	76	41	7	3
2 ½	10	161 375 908	0.176	115	90	47	8	3
3	10	161 375 919	0.286	133	106	56	10	5
4	10	161 375 920	0.438	166	131	66	12	5

Handle



Handle to type 375 PVC-U Standard handle orange

DN-DN (mm)	d-d (mm)	Code	Weight (kg)	L1 (mm)	L3 (mm)	H (mm)	D (mm)
10 - 15	16 - 20	161 491 950	0.013	67	40	27	19
-- 20	-- 25	161 491 951	0.020	77	45	28	22
-- 25	-- 32	161 491 952	0.029	87	51	32	25
-- 32	-- 40	161 491 953	0.042	102	59	36	28
-- 40	-- 50	161 491 954	0.064	119	70	40	32
-- 50	-- 63	161 491 955	0.100	146	84	45	37
-- 65	-- 75	161 491 956	0.145	179	103	52	41
-- 80	-- 90	161 491 957	0.208	209	120	57	44
-- 100	-- 110	161 491 958	0.309	250	141	61	48

Seal set



Seal set 375 PVC-U

Model:

- Consisting of ball seals PTFE and o-rings

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	161 375 402	0.006	161 375 417	0.018
20	15	161 375 403	0.002	161 375 418	0.002
25	20	161 375 404	0.016	161 375 419	0.020
32	25	161 375 405	0.003	161 375 420	0.018
40	32	161 375 406	0.028	161 375 421	0.005
50	40	161 375 407	0.037	161 375 422	0.012

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	161 375 408	0.055	161 375 423	0.069
63	65	161 375 409	0.086	161 375 424	0.018
90	80	161 375 410	0.092	161 375 425	0.121
110	100	161 375 411	0.166	161 375 426	0.198

Union bushes

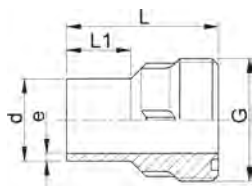


PROGEF Standard Union bush PN10

Model:

- Material: PP-H
 - Fusion socket metric
 - **For the dimensions d75-110 please see instructions for the installation**
- d75-d110 new thread design since 2022

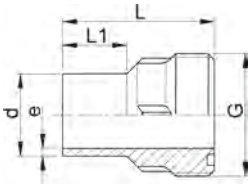
d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	z (mm)	G (kierre R/ Rp BS) (inch)
16	10	727 840 155	0.006	24	11	3/4
20	10	727 840 156	0.011	26	12	1
25	10	727 840 157	0.012	28	12	1 1/4
32	10	727 840 158	0.021	30	12	1 1/2
40	10	727 840 159	0.033	34	14	2
50	10	727 840 160	0.039	39	16	2 1/4
63	10	727 840 161	0.076	47	20	2 3/4
75	10	727 840 192	0.080	51	18	S110x5
90	10	727 840 193	0.220	55	18	S130x5
110	10	727 840 194	0.303	54	12	S155x5



PROGEF Standard Union bush SDR11/PN10

d75-d110 new thread design since 2022

d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	G (inch)	e (mm)
20	11	10	IR	727 848 506	0.012	54	26	1	1.9
25	11	10	IR	727 848 507	0.020	57	26	1 1/4	2.3
32	11	10	IR	727 848 508	0.029	60	25	1 1/2	2.9
40	11	10	IR	727 848 509	0.047	63	25	2	3.7
50	11	10	IR	727 848 510	0.062	66	25	2 1/4	4.6
63	11	10	IR	727 848 511	0.107	69	25	2 3/4	5.8
75	11	10	IR	727 848 212	0.172	68	26	S110x5	6.8
90	11	10	IR	727 848 213	0.182	68	26	S110x5	8.2
110	11	10	IR	727 848 214	0.258	74	33	S130x5	10.0



PROGEF Standard Union bush SDR17.6/PN6

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

With butt fusion ends

Gasket: O-ring EPDM

For the dimensions d75-110 please see instructions for the installation

d	SDR	PN	FM	Code	Weight	L	L1	G	e
(mm)		(bar)			(kg)	(mm)	(mm)	(inch)	(mm)
75	17.6	6	IR	727 648 412	0.150	66	24	S107.5x3.6	4.3
90	17.6	6	IR	727 648 413	0.147	66	24	S107.2x3.6	5.1
110	17.6	6	IR	727 648 414	0.200	66	24	S127.2x3.6	6.3

Union nuts



Union nut malleable iron galvanized

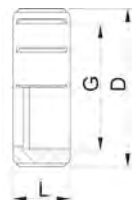
Model:

- Malleable iron galvanized

d	Thread	Type	Size	Code	Weight	L	s
(mm)			(inch)		(kg)	(mm)	(mm)
20		G	1	724 690 006	0.082	18	39
25		G	1 ¼	724 690 007	0.098	20	48
32		G	1 ½	724 690 008	0.134	22	55
40		G	2	724 690 009	0.221	24	67
50		G	2 ¼	724 690 010	0.245	25	74
63		G	2 ¾	724 690 011	0.375	27	90
75		G	3 ½	724 690 012	0.502	30	111
90		G	4	724 690 013	0.695	31	131

Spare parts unions and hand-operated valves

Union Nuts



PROGEF Standard Union nut PP-H

Model:

- Material: PP glass-fibre reinforced
- d75-d110 new thread design since 2022

PN (bar)	Butt Fusion d (mm)	G (R/Rp BS Thread) (inch)	Socket Fu- sion d (mm)	Code	Weight (kg)	L (mm)	D (mm)
10	16	3/4	16	727 890 405	0.007	21	35
10	20	1	20	727 890 406	0.023	21	47
10	25	1 1/4	25	727 890 407	0.035	23	56
10	32	1 1/2	32	727 890 408	0.044	24	63
10	40	2	40	727 890 409	0.044	27	77
10	50	2 1/4	50	727 890 410	0.062	30	84
10	63	2 3/4	63	727 890 411	0.119	39	111
10	110	S130x5	90	727 890 113	0.400	48	161
10		S155x5	110	727 890 114	0.499	52	191
10	75 - 90	S110x5	75	727 890 112	0.205	46	138



PROGEF Standard union nut

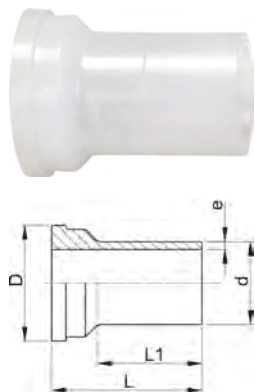
Model:

- For the dimensions d75-110 please see instructions for the installation
- PP glass-fibre reinforced
- 727 690 422 for d75727 690 422 for d90 (union nut fits for d75 and d90) 727 690 423 for d110

Code	Weight (kg)
727 890 422	0.205
727 890 423	0.730

Spare parts for hand-operated valves

Union ends



PROGEF Natural union end IR S5
SDR11/PN10

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	D (mm)	e (mm)
20	BCF, IR	728 608 506	0.004	53	35	30	1.9
25	BCF, IR	728 608 507	0.013	56	36	39	2.6
32	BCF, IR	728 608 508	0.024	59	38	45	3.0
40	BCF, IR	728 608 509	0.042	63	39	57	3.7
50	BCF, IR	728 608 510	0.055	65	41	63	4.6
63	BCF, IR	728 608 511	0.092	69	43	78	5.8

Valve ends



PROGEF Natural valve end 546
SDR11/PN10

Model:

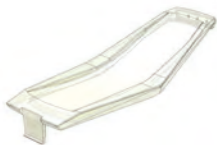
- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	e (mm)
20	BCF, IR	168 480 260	0.007	37	4	25	38	1.9
25	BCF, IR	168 480 261	0.011	39	5	25	44	2.3
32	BCF, IR	168 480 262	0.018	40	5	25	53	2.9
40	BCF, IR	168 480 263	0.029	43	5	25	65	3.7
50	BCF, IR	168 480 264	0.053	51	6	25	77	4.6
63	BCF, IR	168 480 265	0.093	60	7	28	99	5.8

Spare parts and accessories

Accessories for valves

Ball valves



Transparent lever clip for ball valve labelling

Option:

- Component for ball valve Type 546 Pro, 543 Pro, 523 Pro
- Material: SAN
- UV-, weather- and chemical resistant
- Allows valve marking in conjunction with perforated printing sheets
- Perforated printing sheets are not included (depending on dimension see 198 807 231 - 198807 236)

Inch (inch)	d-d (mm)	DN-DN (mm)	Code	Quantity
$\frac{3}{8}$ - $\frac{1}{2}$	16 - 20	10 - 15	198 807 221	10 pc's
$\frac{3}{4}$ - 1	25 - 32	20 - 25	198 807 222	10 pc's
1 $\frac{1}{4}$ - 1 $\frac{1}{2}$	40 - 50	32 - 40	198 807 223	5 pc's
2	63	50	198 807 224	5 pc's
2 $\frac{1}{2}$ - 3	75 - 90	65 - 80	198 807 225	5 pc's
4	110	100	198 807 226	5 pc's



Printing sheets for ball valve labelling

Option:

- Component for ball valve Type 546 Pro, 543 Pro, 523 Pro
- Material: DIN A4 Polymer-sheet
- UV-, weather- and chemical resistant
- Allows valve marking in conjunction with transparent lever clip
- Can be labelled with laser printers or by hand
- Transparent lever clip is not included (depending on dimension see 198 807 221 - 198 807 226)

Inch (inch)	d-d (mm)	DN-DN (mm)	Code	Quantity
$\frac{3}{8}$ - $\frac{1}{2}$	16 - 20	10 - 15	198 807 231	25 Sheets with each 48 Labels
$\frac{3}{4}$ - 1	25 - 32	20 - 25	198 807 232	25 Sheets with each 24 Labels
1 $\frac{1}{4}$ - 1 $\frac{1}{2}$	40 - 50	32 - 40	198 807 233	25 Sheets with each 18 Labels
2	63	50	198 807 234	25 Sheets with each 11 Labels
2 $\frac{1}{2}$ - 3	75 - 90	65 - 80	198 807 235	25 Sheets with each 6 Labels
4	110	100	198 807 236	25 Sheets with each 4 Labels
$\frac{3}{8}$ - $\frac{1}{2}$	16 - 20	10 - 15	198 807 241	100 Sheets with each 48 Labels
$\frac{3}{4}$ - 1	25 - 32	20 - 25	198 807 242	100 Sheets with each 24 Labels
1 $\frac{1}{4}$ - 1 $\frac{1}{2}$	40 - 50	32 - 40	198 807 243	100 Sheets with each 18 Labels
2	63	50	198 807 244	100 Sheets with each 11 Labels

Ball valves and check valves

Adapter ring for valves



- Suitable for ball valve type 546/543/523/547 and check valves type 561/591
- Adapter ring enables standard union ends (e.g. metal inserts made of stainless steel, brass or malleable cast iron with R or Rp thread) for use with Ball Valves and Check Valves
- Material: PP-GF (30% glass-fibre reinforced)

d (mm)	DN (mm)	Code	Weight (kg)
20	15	167 481 182	0.003
25	20	167 481 183	0.003
32	25	167 481 184	0.004
40	32	167 481 185	0.008
50	40	167 481 186	0.014
63	50	167 481 187	0.026

Diaphragm valves new generation



Electrical feedback module I40/I41 With limit switches Ag Ni or AU

Model:

- No height increase
- Easy, fast and safe installation
- Accessory to hand operated diaphragm valve 514 - 519
- Self adjusting mechanism
- Including plug 3P+E / protection: IP65

Size	d-d (mm)	DN-DN (mm)	Ag Ni Code	Weight (kg)	AU Code	Weight (kg)
1	10 - 25	10 - 20	198 151 335	0.095	198 151 336	0.120
2	32 - 40	25 - 32	198 151 337	0.101	198 151 338	0.101
3	50 - 63	40 - 50	198 151 339	0.154	198 151 340	0.120

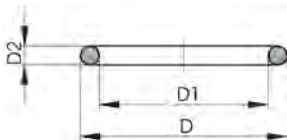
Spare parts Spare parts Industry



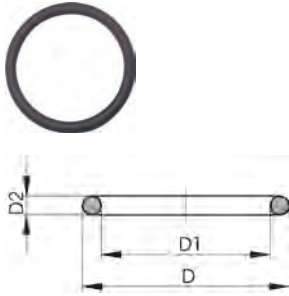
O-Ring Gasket

Model:

- Suitable for union PP-N 28 51 85
- Hardness approx. 65° Shore



d (mm)	Size (inch)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)
20	½	15	748 410 140	0.023	749 410 140	0.020	20.32	15.08	2.62
25	¾	20	748 410 006	0.002	749 410 006	0.002	27.28	20.22	3.53
32	1	25	748 410 025	0.010	749 410 025	0.002	32.05	24.99	3.53
40	1 ¼	32	748 410 152	0.005	749 410 152	0.003	41.78	31.12	5.34
50	1 ½	40	748 410 009	0.003	749 410 009	0.007	51.33	40.65	5.34
63	2	50	748 410 171	0.005	749 410 171	0.007	60.84	50.16	5.34



O-Ring Union EPDM/FKM

Model:

- For ecoFIT, PROGEF Std/Plus, SYGEF Std unions and adapter unions for butt fusion
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

Note:

For the O-Rings of new unions as of 10/2022, see respective union datasheet

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	D (mm)	D1 (mm)	D2 (mm)
20	15	748 410 006	0.002	749 410 006	27.28	20.22	3.53
25	20	748 410 007	0.002	749 410 007	35.23	28.17	3.53
32	25	748 410 008	0.003	749 410 008	39.99	32.93	3.53
40	32	748 410 009	0.003	749 410 009	51.33	40.65	5.34
50	40	748 410 010	0.004	749 410 010	57.68	46.99	5.34
63	50	748 410 011	0.005	749 410 011	70.37	56.69	5.34

Spare parts Industry valves

Connecting parts for Ball valves 546/543/523 Check valves 561/562 Ventilating & bleed valves 591/595



Solvent cement socket

d (mm)	Size (inch)	DN (mm)
16	3/8	10
20	1/2	15
25	3/4	20
32	1	25
40	1 1/4	32
50	1 1/2	40
63	2	50
75	2 1/2	65
90	3	80
110	4	100

d (mm)	PVC-U metric (G01) Code	PVC-U BS (G04) Code	PVC-U ASTM (G03) Code	PVC-C metric (G11) Code	PVC-C ASTM (G13) Code	ABS metric (G20) Code
16	161 490 666	161 490 734	161 490 712	163 481 275	163 481 311	169 480 775
20	161 490 667	161 490 735	161 490 713	163 481 276	163 481 312	169 480 776
25	161 490 668	161 490 736	161 490 714	163 481 277	163 481 313	169 480 777
32	161 490 669	161 490 737	161 490 715	163 481 278	163 481 314	169 480 778
40	161 490 670	161 490 738	161 490 716	163 481 279	163 481 315	169 480 779
50	161 490 671	161 490 739	161 490 717	163 481 280	163 481 316	169 480 780
63	161 490 672	161 490 740	161 490 718	163 481 281	163 481 317	169 480 781
75	161 490 673	161 490 743	161 490 719	163 481 282	163 481 318	169 480 782
90	161 490 674	161 490 742	161 490 720	163 481 283	163 481 319	169 480 783
110	161 490 675	161 490 743	161 490 721	163 481 284	163 481 320	169 480 784

d (mm)	ABS BS (G21) Code
16	169 480 800
20	169 480 801
25	169 480 802

d (mm)	ABS BS (G21) Code
32	169 480 803
40	169 480 804
50	169 480 805
63	169 480 806
75	169 480 782
90	169 480 808
110	169 480 809



Solvent cement spigot

d (mm)	DN (mm)	PVC-U metric (G05) Code	PVC-C metric (G14) Code
16	10	161 490 701	163 481 300
20	15	161 490 702	163 481 301
25	20	161 490 703	163 481 302
32	25	161 490 704	163 481 303
40	32	161 490 705	163 481 304
50	40	161 490 706	163 481 305
63	50	161 490 707	163 481 306
75	65	161 490 708	163 481 307
90	80	161 490 709	163 481 308
110	100	161 490 710	163 481 309



Threaded socket

Size (inch)	DN (mm)
3/8	10
1/2	15
3/4	20
1	25
1 1/4	32
1 1/2	40
2	50
2 1/2	65
3	80
4	100

Size (inch)	PVC-U Rp (G06) Code	PVC-U Rp reinforced (G07) Code	PVC-U NPT (G09) Code	PVC-C Rp (G15) Code	PVC-C Rp reinforced (G16) Code	PVC-C NPT (G17) Code
3/8	161 490 690	161 490 825	161 490 723	163 481 286	163 481 400	163 481 322
1/2	161 490 691	161 490 826	161 490 724	163 481 287	163 481 401	163 481 323
3/4	161 490 692	161 490 827	161 490 725	163 481 288	163 481 402	163 481 324
1	161 490 693	161 490 828	161 490 726	163 481 289	163 481 403	163 481 325
1 1/4	161 490 694	161 490 829	161 490 727	163 481 290	163 481 404	163 481 326
1 1/2	161 490 695	161 490 830	161 490 728	163 481 291	163 481 405	163 481 327
2	161 490 696	161 490 831	161 490 729	163 481 292	163 481 406	163 481 328
2 1/2	161 490 697		161 490 730	163 481 293		163 481 329
3	161 490 698		161 490 731	163 481 294		163 481 330
4	161 490 699		161 490 732	163 481 295		163 481 331

Size (inch)	ABS Rp (G22) Code	ABS Rp reinforced (G23) Code	PP-H Rp reinforced (G33) Code	PP-H NPT reinforced (G34) Code	PVDF NPT (G53) Code
3/8	169 480 786	169 480 925	167 482 911	167 482 966	175 483 058
1/2	169 480 787	169 480 926	167 482 912	167 482 967	175 483 059
3/4	169 480 788	169 480 927	167 482 913	167 482 968	175 483 060
1	169 480 789	169 480 928	167 482 914	167 482 969	175 483 061
1 1/4	169 480 790	169 480 929	167 482 915	167 482 970	175 483 062
1 1/2	169 480 791	169 480 930	167 482 916	167 482 971	175 483 063
2	169 480 792	169 480 931	167 482 917	167 482 972	175 483 064
2 1/2					
3					
4					

Fusion socket



d (mm)	DN (mm)	PN (bar)	PP-H metric (G30) Code	PVDF metric (G50) Code	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	10	10	167 482 900	175 483 025	38	23	19	4	5
20	15	10	167 482 901	175 483 026	38	27	20	4	5
25	20	10	167 482 902	175 483 027	44	33	22	5	6
32	25	10	167 482 903	175 483 028	53	41	24	5	6
40	32	10	167 482 904	175 483 029	65	51	26	5	7
50	40	10	167 482 905	175 483 030	77	62	29	6	8
63	50	10	167 482 906	175 483 031	99	77	34	7	6
75	65	10	167 482 907	175 483 032	125	92	49	9	20
90	80	10	167 482 908	175 483 033	150	110	57	10	24
110	100	10	167 482 909	175 483 034	180	134	69	11	30

Socket fusion spigot IR-Plus®



d (mm)	DN (mm)	PP-H metric (G32) Code	PVDF metric (G51) Code
16	10	167 482 922	175 483 036
20	15	167 482 923	175 483 037
25	20	167 482 924	175 483 038
32	25	167 482 925	175 483 039
40	32	167 482 926	175 483 040
50	40	167 482 927	175 483 041
63	50	167 482 928	175 483 042
75	65	167 482 929	
90	80	167 482 930	
110	100	167 482 931	

Butt fusion spigot IR-Plus®



d (mm)	DN (mm)	PP-H metric SDR11 (G35) Code	PP-H metric long SDR11 (G37) Code	PP-N metric SDR11 Code	PVDF metric (G52) Code
20	15	167 482 945	167 482 956	168 480 260	175 483 048
25	20	167 482 946	167 482 957	168 480 261	175 483 049
32	25	167 482 947	167 482 958	168 480 262	175 483 050
40	32	167 482 948	167 482 959	168 480 263	175 483 051
50	40	167 482 949	167 482 960	168 480 264	175 483 052

d (mm)	DN (mm)	PP-H metric SDR11 (G35) Code	PP-H metric long SDR11 (G37) Code	PP-N metric SDR11 Code	PVDF metric (G52) Code
63	50	167 482 950	167 482 961	168 480 265	175 483 053
75	65	167 482 951			175 483 054
90	80	167 482 952			175 483 055
110	100	167 482 953			175 483 056



Butt fusion spigot PE100 IR-Plus®

d (mm)	DN (mm)	metric SDR11 (G41) Code	metric long SDR11 (G43) Code
20	15	193 480 102	193 480 152
25	20	193 480 103	193 480 153
32	25	193 480 104	193 480 154
40	32	193 480 105	193 480 155
50	40	193 480 106	193 480 156
63	50	193 480 107	193 480 157
75	65		193 480 158
90	80		193 480 159
110	100		193 480 160



Fixed flange

d (mm)	DN (mm)	PVC-U metric (G60) Code	PP-H metric (G63) Code	PVDF metric (G64) Code
20	15	161 486 360	167 484 160	175 483 285
25	20	161 486 361	167 484 161	175 483 286
32	25	161 486 362	167 484 162	175 483 287
40	32	161 486 363	167 484 163	175 483 288
50	40	161 486 364	167 484 164	175 483 289
63	50	161 486 365	167 484 165	175 483 290



Backing flange

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80
110	4	100

d (mm)	PVC-U metric (G70) Code	PVC-U ANSI (G71) Code	PVC-U PP- St metric (G72) Code	PVC-U PP- St ANSI (G73) Code	PVC-C PP- St metric (G72) Code	PVC-C PP- St ANSI (G73) Code
20	161 486 265	161 486 275	161 486 285	161 486 425	163 481 412	163 481 425
25	161 486 266	161 486 276	161 486 286	161 486 426	163 481 413	163 481 426
32	161 486 267	161 486 277	161 486 287	161 486 427	163 481 414	163 481 427
40	161 486 268	161 486 278	161 486 288	161 486 428	163 481 415	163 481 428
50	161 486 269	161 486 279	161 486 289	161 486 429	163 481 416	163 481 429

d (mm)	PVC-U metric (G70) Code	PVC-U ANSI (G71) Code	PVC-U PP- St metric (G72) Code	PVC-U PP- St ANSI (G73) Code	PVC-C PP- St metric (G72) Code	PVC-C PP- St ANSI (G73) Code
63	161 486 270	161 486 280	161 486 290	161 486 430	163 481 417	163 481 430
75	161 486 271	161 486 281	161 486 291	161 486 431	163 481 418	163 481 431
90	161 486 272	161 486 282	161 486 292	161 486 432	163 481 419	163 481 432
110	161 486 273	161 486 283	161 486 293	161 486 433	163 481 420	163 481 433

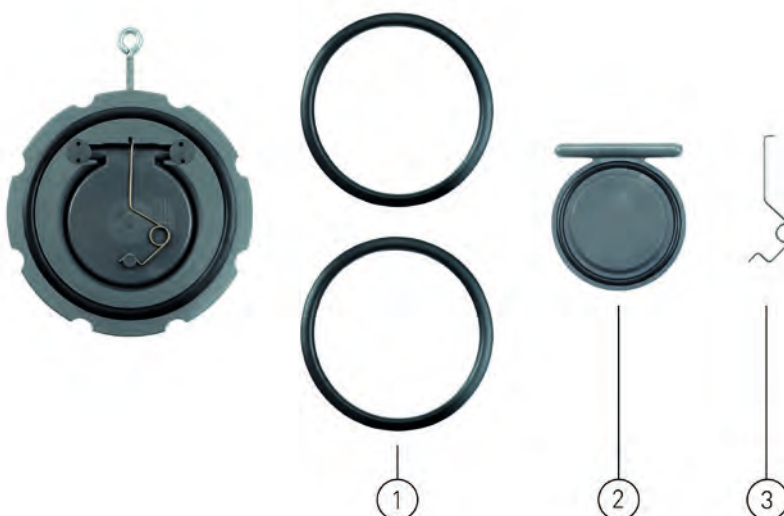
d (mm)	PP-H PP-St ANSI (G73) Code
20	167 484 065
25	167 484 066
32	167 484 067
40	167 484 068
50	167 484 069
63	167 484 070
75	167 484 071
90	167 484 072
110	167 484 073



Union nut

d (mm)	DN (mm)	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
16	10	161 490 538	163 481 226	169 480 713	167 482 712	175 482 937
20	15	161 490 538	163 481 226	169 480 713	167 482 712	175 482 937
25	20	161 490 539	163 481 227	169 480 714	167 482 713	175 482 938
32	25	161 490 540	163 481 228	169 480 715	167 482 714	175 482 939
40	32	161 490 541	163 481 229	169 480 716	167 482 715	175 482 940
50	40	161 490 542	163 481 230	169 480 717	167 482 716	175 482 941
63	50	161 490 543	163 481 231	169 480 718	167 482 717	175 482 942
75	65	161 490 544	163 481 232	169 480 719	167 482 718	175 482 943
90	80	161 490 545	163 481 233	169 480 720	167 482 719	175 482 944
110	100	161 490 546	163 481 234	169 480 721	167 482 720	175 482 945

Spare parts wafer check valve type 369





Seal set (1)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
40	1 ¼	32		161 484 887
50	1 ½	40	161 484 876	161 484 888
63	2	50	161 484 877	161 484 889
75	2 ½	65	161 484 878	161 484 890
90	3	80	161 484 879	161 484 891
110	4	100	161 484 880	161 484 892
140	5	125	161 484 881	161 484 893
160	6	150	161 484 882	161 484 894
225	8	200	161 484 883	161 484 895
280	10	250	161 484 884	161 484 896
315	12	300	161 484 885	161 484 897



Disc set (2)

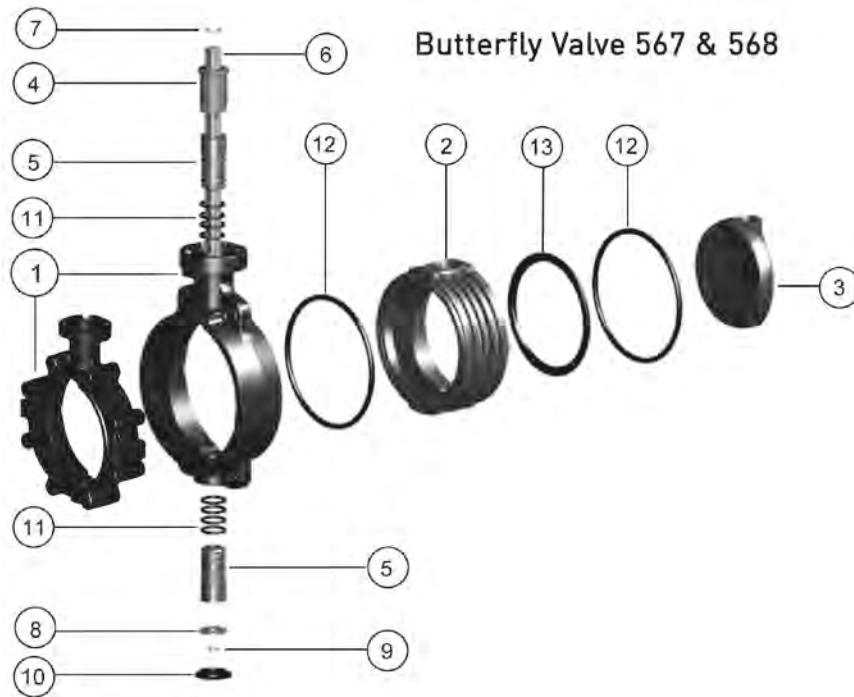
d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code
40	1 ¼	32	161 369 122	161 369 142	167 369 122	167 369 142	175 369 142
50	1 ½	40	161 369 123	161 369 143	167 369 123	167 369 143	175 369 143
63	2	50	161 369 124	161 369 144	167 369 124	167 369 144	175 369 144
75	2 ½	65	161 369 125	161 369 145	167 369 125	167 369 145	175 369 145
90	3	80	161 369 126	161 369 146	167 369 126	167 369 146	175 369 146
110	4	100	161 369 127	161 369 147	167 369 127	167 369 147	175 369 147
140	5	125	161 369 128	161 369 148	167 369 128	167 369 148	175 369 148
160	6	150	161 369 129	161 369 149	167 369 129	167 369 149	175 369 149
225	8	200	161 369 130	161 369 150	167 369 130	167 369 150	175 369 150
280	10	250	161 369 131	161 369 151	167 369 131	167 369 151	175 369 151
315	12	300	161 369 132	161 369 152	167 369 132	167 369 152	175 369 152



Spring (3)

d (mm)	Size (inch)	DN (mm)	V4A Code	Hastelloy C Code
40	1 ¼	32	161 484 900	161 484 912
50	1 ½	40	161 484 901	161 484 913
63	2	50	161 484 902	161 484 914
75	2 ½	65	161 484 903	161 484 915
90	3	80	161 484 904	161 484 916
110	4	100	161 484 905	161 484 917
140	5	125	161 484 905	161 484 917
160	6	150	161 484 907	161 484 919
225	8	200	161 484 908	161 484 920
280	10	250	161 484 909	161 484 921
315	12	300	161 484 910	161 484 922

Spare parts butterfly valve type 567/578



Inner body for Butterfly Valve Type 567 and 578

Model:

- Inner body consisting of: inner body (2) and profile seal (13)

d	Size	DN
(mm)	(inch)	(mm)
63	2	50
75	2 ½	65
90	3	80
110	4	100
140	5	125
160	6	150
225	8	200
280	10	250
315	12	300

d	PVC-U	PVC-U FKM	PVC-C	PVC-C FKM	ABS EPDM	PP-H EPDM
(mm)	EPDM	Code	EPDM	Code	Code	Code
	Code		Code			
63	161 486 861	161 486 873	163 481 591	163 481 603	169 481 067	167 484 271
75	161 486 862	161 486 874	163 481 592	163 481 604	169 481 068	167 484 272
90	161 486 863	161 486 875	163 481 593	163 481 605	169 481 069	167 484 273
110	161 486 864	161 486 876	163 481 594	163 481 606	169 481 070	167 484 274
140	161 486 865	161 486 877	163 481 595	163 481 607	169 481 071	167 484 275
160	161 486 866	161 486 878	163 481 596	163 481 608	169 481 072	167 484 276
225	161 486 867	161 486 879	163 481 597	163 481 609	169 481 073	167 484 277
280	161 486 868	161 486 880	163 481 598	163 481 610		167 484 278
315	161 486 869	161 486 881	163 481 599	163 481 611		167 484 279

d	PP-H FKM	PVDF FKM	PVDF PTFE
(mm)	Code	Code	Code
63	167 484 286	175 483 413	175 483 752
75	167 484 287	175 483 414	175 483 753
90	167 484 288	175 483 415	175 483 754
110	167 484 289	175 483 416	175 483 755
140	167 484 290	175 483 417	175 483 756

d (mm)	PP-H FKM Code	PVDF FKM Code	PVDF PTFE Code
160	167 484 291	175 483 418	175 483 757
225	167 484 292	175 483 419	175 483 758
280	167 484 293	175 483 420	175 483 759
315	167 484 294	175 483 421	175 483 760



Disc for Butterfly Valve Type 567 and 578

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
63	2	50	161 490 889	163 481 451	169 480 951	167 483 226	175 483 251
75	2 ½	65	161 490 890	163 481 452	169 480 952	167 483 227	175 483 252
90	3	80	161 490 891	163 481 453	169 480 953	167 483 228	175 483 253
110	4	100	161 490 892	163 481 454	169 480 954	167 483 229	175 483 254
140	5	125	161 490 893	163 481 455	169 480 955	167 483 230	175 483 255
160	6	150	161 490 894	163 481 456	169 480 956	167 483 231	175 483 256
225	8	200	161 490 895	163 481 457	169 480 957	167 483 232	175 483 257
280	10	250	161 490 896	163 481 458	169 480 958	167 483 233	175 483 258
315	12	300	161 490 897	163 481 459	169 480 959	167 483 234	175 483 259
355	14	350				167 483 235	
400	16	400				167 483 236	
450	18	450				167 483 237	
500	20	500				167 483 238	
630	24	600				167 483 239	



Bearing bush for Butterfly Valve Type 567 and 578

Model:

- Included in delivery 2 pcs.
- With o-ring
- Bearing bushes in PP-H are used in PP-H and ABS butterfly valves

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code
63, 75, 90	2, 2½, 3	50, 65, 80	161 486 886	161 486 892	163 481 576	163 481 582
110, 140	4, 5	100, 125	161 486 887	161 486 893	163 481 577	163 481 583
160, 225	6, 8	150, 200	161 486 888	161 486 894	163 481 578	163 481 584
280, 315	10, 12	250, 300	161 486 889	161 486 895	163 481 579	163 481 585
355	14	350				
400	16	400				
450	18	450				
500	20	500				
630	24	600				

d (mm)	Size (inch)	DN (mm)	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code
63, 75, 90	2, 2½, 3	50, 65, 80	167 484 259	167 484 265	175 483 426
110, 140	4, 5	100, 125	167 484 260	167 484 266	175 483 427
160, 225	6, 8	150, 200	167 484 261	167 484 267	175 483 428
280, 315	10, 12	250, 300	167 484 262	167 484 268	175 483 429
355	14	350	167 484 263	167 484 269	
400	16	400	167 484 264	167 484 270	
450	18	450	167 484 280	167 484 283	
500	20	500	167 484 281	167 484 284	
630	24	600	167 484 282	167 484 285	





Shaft set for Butterfly Valve Type 567 and 578

Model:

- Shaft set consisting of: shaft chrom steel 1.4404 (SUS316L) (6), retention ring (7, 9) and washer (8)

d (mm)	Size (inch)	DN (mm)	Code
63	2	50	161 486 899
75	2 ½	65	161 486 900
90	3	80	161 486 901
110	4	100	161 486 902
140	5	125	161 486 903
160	6	150	161 486 904
225	8	200	161 486 905
280	10	250	161 486 906
315	12	300	161 486 907
355	14	350	161 486 908
400	16	400	161 486 909
450	18	450	161 486 926
500	20	500	161 486 927
630	24	600	161 486 928



Hand lever for Butterfly Valve Type 567 and 578

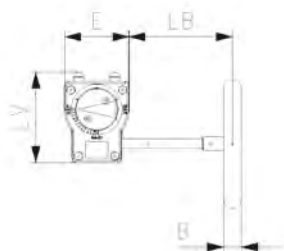
d (mm)	Size (inch)	DN (mm)	with index plate Code	with fine adjustment Code
63	2	50	161 486 690	161 486 325
75	2 ½	65	161 486 690	161 486 325
90	3	80	161 486 690	161 486 325
110	4	100	161 486 691	161 486 326
140	5	125	161 486 691	161 486 326
160	6	150	161 486 694	161 486 327
225	8	200	161 486 695	161 486 328
280	10	250	161 486 697	
315	12	300	161 486 697	



Reduction gear with handwheel for Butterfly Valve Type 565, 567 and 578

- For valve actuation via a reduction gear with hand wheel. Suitable for all GF butterfly valves.
- Intermediate elements are required.
- This version is not recommended to use in outside or corrosive environment

DN (mm)	Code	Wmax (mm)	LV (mm)	Y (mm)	M (mm)	B (mm)	E (mm)	LB (mm)
50 - 200	161 483 471	221.0	112.3	61.2	160.0	23.0	80.0	129.5
250 - 300	161 483 472	246.3	130.0	68.4	200.0	24.6	100.0	134.0



Snap ring DN350-600 for Butterfly Valve Type 567

- For fixation of profile seal in body

d (mm)	Size (inch)	DN (mm)	PP-H Code
355	14	350	167 484 295
400	16	400	167 484 296
450	18	450	167 484 297
500	20	500	167 484 298
630	24	600	167 484 299

Profile seal (13) DN350-600 for Butterfly Valve Type 567

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
355	14	350	748 440 018	749 440 028
400	16	400	748 440 019	749 440 029
450	18	450	748 440 020	749 440 030
500	20	500	748 440 021	749 440 031
630	24	600	748 440 022	749 440 032

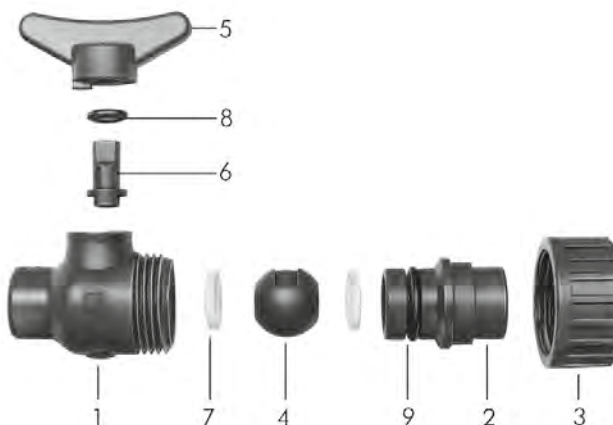


Intermediate element for Butterfly Valve Type 567 and 578 (reduction gear)

d (mm)	DN (mm)	Code
63	50	198 000 621
75	65	198 000 621
90	80	198 000 621
110	100	198 000 622
140	125	198 000 622

d (mm)	DN (mm)	Code
140	150	198 000 600
140	150	198 000 600
280	250	198 000 732
280	250	198 000 732

Spare parts laboratory ball valve type 322



Ball set

Model:

- Ball seals standard in PTFE
- Ball set consisting of: ball (4), stem (6), ball- and stem seal (7-8)

d (mm)	Inch (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
10	⅜	6	161 482 978	161 482 980
12	¼	8	161 482 978	161 482 980



Lever

d (mm)	Inch (inch)	DN (mm)	PVC-U Code
10	⅜	6	161 322 205
12	¼	8	161 322 205



Seal set

Model:

- Seal set consisting of: stem- and body seal (8-9)

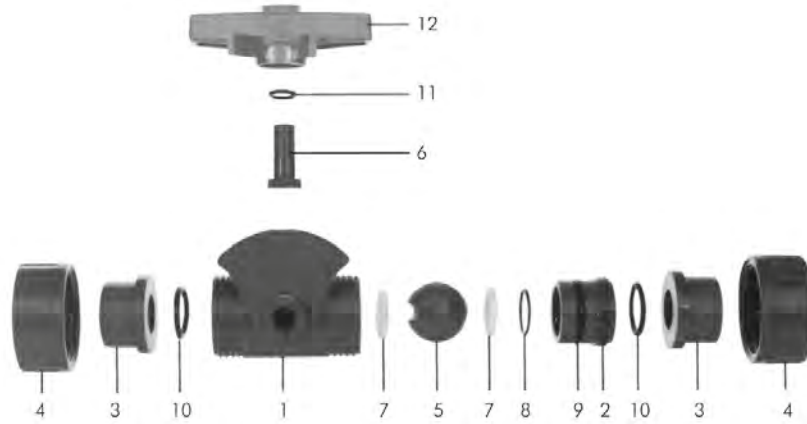
d (mm)	Inch (inch)	DN (mm)	EPDM Code
10	⅜	6	161 482 982
12	¼	8	161 482 982



Valve end with socket metric

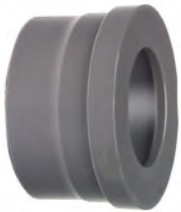
d (mm)	Inch (inch)	DN (mm)	PVC-U Code
10	3/8	6	161 322 152
12	1/2	8	161 322 202

Spare parts metering ball valve type 323



Threaded bush Rc/NPT

Size (inch)	DN (mm)	PVC-U NPT Code	PVDF NPT Code
3/8	10	161 482 389	175 480 727
1/2	15	161 482 390	175 480 728



Threaded bush Rp

DN (mm)	Rp (inch)	PVC-U Code	PVC-C Code	ABS Code	PP-H Code
10	3/8	161 480 550	163 480 832	169 480 120	167 480 166
15	1/2	161 480 551	163 480 833	169 480 121	167 480 167

Spare parts ball valve type 355



Lever PP

Size (inch)	DN (mm)	blue Code
1/2	15	167 481 090
3/4	20	167 481 091
1	25	167 481 091
1 1/4	32	167 481 092
1 1/2	40	167 481 092
2	50	167 481 093

Spare parts ball valve type 354



Union nut

d (mm)	Size (inch)	DN (mm)	PVC-U Code
20	½	15	721 690 006
25	¾	20	721 690 007
32	1	25	721 690 008
40	1 ¼	32	721 690 009
50	1 ½	40	721 690 010
63	2	50	721 690 011



Face seal

d (mm)	Size (inch)	DN (mm)	EPDM Code
20	½	15	748 410 042
25	¾	20	748 410 116
32	1	25	748 410 103
40	1 ¼	32	748 410 027
50	1 ½	40	748 410 010
63	2	50	748 410 011

Spare parts ball valve type 355

Central part

d (mm)	Size (inch)	DN (mm)	EPDM Code
20	½	15	161 483 837
25	¾	20	161 483 838
32	1	25	161 483 839
40	1 ¼	32	161 483 840
50	1 ½	40	161 483 841
63	2	50	161 483 842

Spare parts metering ball valve type 523



Central part For Ball valve type 523

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, ball-, backing-, body-, face- and stem seal, standard lever and threaded inserts stainless steel

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PP-H EPDM Code	PP-H FKM Code
16	¾	10	161 485 351	161 485 361	167 485 371	167 485 381
20	½	15	161 485 353	161 485 363	167 485 373	167 485 383

Spare parts shipbuilding ball valve type 547

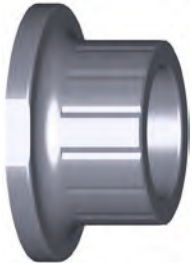


Service housing kit

Model:

- With integrated check valve and filter

D (mm)	Size (inch)	DN (mm)	Code
16	3/8	10	167 547 905



Valve end fusion socket PB

d (mm)	Size (inch)	DN (mm)	Code
16	3/8	10	167 547 441
20	1/2	15	167 547 442



Valve end iFIT

D (mm)	Size (inch)	DN (mm)	Code
20	1/2	15	167 547 112



Service housing end connector kit With fusion socket PB

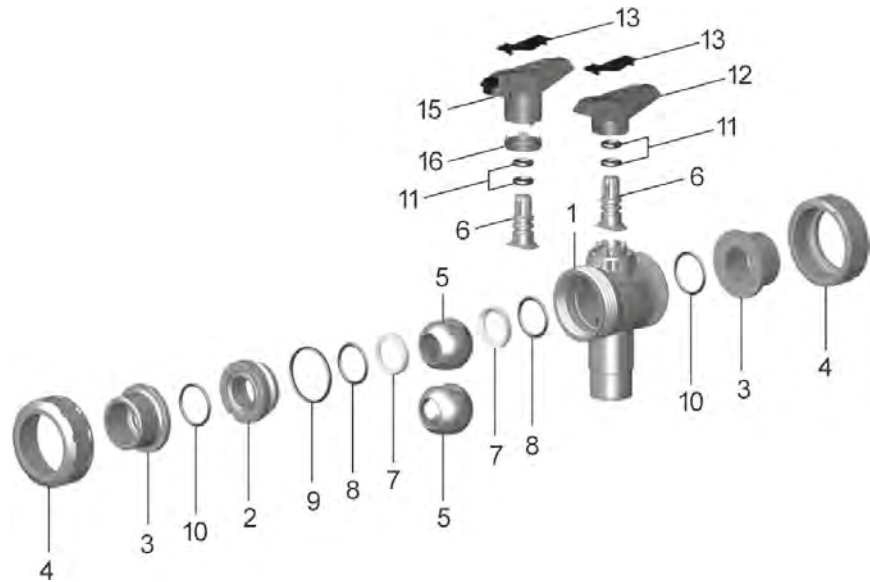
d (mm)	Size (inch)	DN (mm)	Code
16	3/8	10	167 547 931
20	1/2	15	167 547 932



Service housing end connector kit with iFIT connector

d (mm)	Size (inch)	DN (mm)	Code
20	1/2	15	167 547 902

Spare parts ball valve type 543 vertical



Central part for Ball valve type 543 Pro T-port Vertical

Model:

- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, standard lever, stainless steel threaded inserts and seal for: ball, backing, body, face and stem

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	ABS EPDM Code
16	¾	10	161 488 061	161 488 071	169 481 231
20	½	15	161 488 062	161 488 072	169 481 232
25	¾	20	161 488 063	161 488 073	169 481 233
32	1	25	161 488 064	161 488 074	169 481 234
40	1 ¼	32	161 488 065	161 488 075	169 481 235
50	1 ½	40	161 488 066	161 488 076	169 481 236
63	2	50	161 488 067	161 488 077	169 481 237



Central part for Ball valve type 543 Pro L-port Vertical

Model:

- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, standard lever, stainless steel threaded inserts and seal for: ball, backing, body, face and stem
- Every connecting pieces and union nuts are listed on product range industry valves

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	ABS EPDM Code
16	¾	10	161 488 041	161 488 051	169 481 221
20	¾	15	161 488 042	161 488 052	169 481 222
25	¾	20	161 488 043	161 488 053	169 481 223
32	1	25	161 488 044	161 488 054	169 481 224
40	1 ¼	32	161 488 045	161 488 055	169 481 225
50	1 ½	40	161 488 046	161 488 056	169 481 226
63	2	50	161 488 047	161 488 057	169 481 227



Assembly kit

Model:

- Intermediate element for ball valve type 543 vertical and electric or pneumatic actuators EA21; PA11/21
- Including screws

d (mm)	Inch (inch)	DN (mm)	Code
16 - 20	¾ - ½	10 - 15	167 484 945
25 - 32	¾ - 1	20 - 25	167 484 946
40 - 50	1 ¼ - 1 ½	32 - 40	167 484 947
63	2	50	167 484 948



Face seal

Model:

- Face seal no. 10

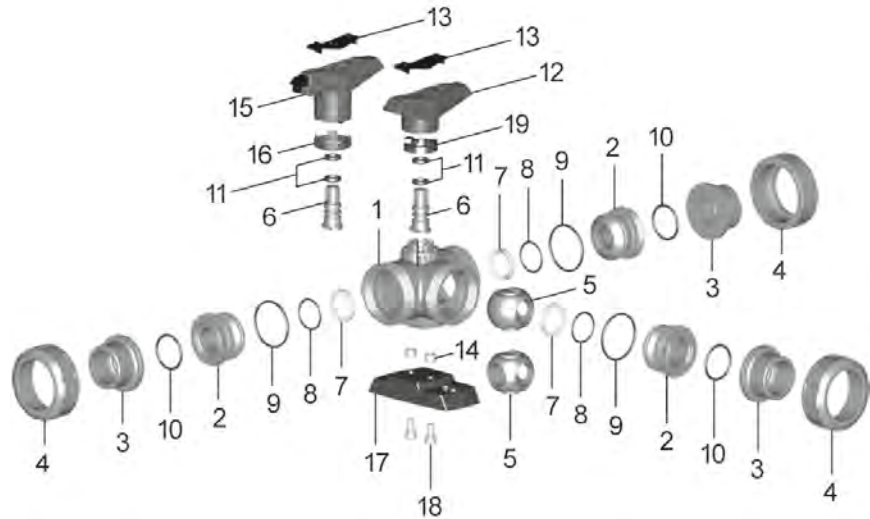
d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	¾	10	748 410 059	749 410 059
20	½	15	748 410 059	749 410 059
25	¾	20	748 410 106	749 410 106
32	1	25	748 410 151	749 410 151
40	1 ¼	32	748 410 062	749 410 062
50	1 ½	40	748 410 003	749 410 003
63	2	50	748 410 231	749 410 231



Lever

d (mm)	Size (inch)	DN (mm)	Standard lever L-port red Code	Standard lever diverter ball red Code	Multifunctional-lever L-port red Code	Multifunctional-lever diverter ball red Code
16	¾	10	167 484 688	167 484 788	167 484 642	167 484 742
20	½	15	167 484 688	167 484 788	167 484 642	167 484 742
25	¾	20	167 484 689	167 484 789	167 484 643	167 484 743
32	1	25	167 484 690	167 484 790	167 484 644	167 484 744
40	1 ¼	32	167 484 691	167 484 791	167 484 645	167 484 745
50	1 ½	40	167 484 692	167 484 792	167 484 646	167 484 746
63	2	50	167 484 693	167 484 793	167 484 647	167 484 747

Spare parts ball valve type 543 horizontal



Central part for Ball valve type 543 Pro L-port Horizontal

Model:

- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, standard lever, stainless steel threaded inserts and seal for: ball, backing, body, face and stem
- Every connecting pieces and union nuts are listed on product range industry valves

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code
16	¾	10	161 488 002	161 488 012	163 481 902	163 481 912	169 481 202
20	½	15	161 488 002	161 488 012	163 481 902	163 481 912	169 481 202
25	¾	20	161 488 003	161 488 013	163 481 903	163 481 913	169 481 203
32	1	25	161 488 004	161 488 014	163 481 904	163 481 914	169 481 204
40	1 ¼	32	161 488 005	161 488 015	163 481 905	163 481 915	169 481 205
50	1 ½	40	161 488 006	161 488 016	163 481 906	163 481 916	169 481 206
63	2	50	161 488 007	161 488 017	163 481 907	163 481 917	169 481 207

d (mm)	Size (inch)	DN (mm)	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code
16	¾	10	167 484 802	167 484 812	175 483 602
20	½	15	167 484 802	167 484 812	175 483 602
25	¾	20	167 484 803	167 484 813	175 483 603
32	1	25	167 484 804	167 484 814	175 483 604
40	1 ¼	32	167 484 805	167 484 815	175 483 605
50	1 ½	40	167 484 806	167 484 816	175 483 606
63	2	50	167 484 807	167 484 817	175 483 607



Central part for Ball valve type 543 Pro T-port Horizontal

Model:

- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, standard lever, stainless steel threaded inserts and seal for: ball, backing, body, face and stem

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code
16	3/8	10	161 488 022	161 488 032	163 481 922	163 481 932	169 481 212
20	1/2	15	161 488 022	161 488 032	163 481 922	163 481 932	169 481 212
25	3/4	20	161 488 023	161 488 033	163 481 923	163 481 933	169 481 213
32	1	25	161 488 024	161 488 034	163 481 924	163 481 934	169 481 214
40	1 1/4	32	161 488 025	161 488 035	163 481 925	163 481 935	169 481 215
50	1 1/2	40	161 488 026	161 488 036	163 481 926	163 481 936	169 481 216
63	2	50	161 488 027	161 488 037	163 481 927	163 481 937	169 481 217

d (mm)	Size (inch)	DN (mm)	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code
16	3/8	10	167 484 822	167 484 832	175 483 612
20	1/2	15	167 484 822	167 484 832	175 483 612
25	3/4	20	167 484 823	167 484 833	175 483 613
32	1	25	167 484 824	167 484 834	175 483 614
40	1 1/4	32	167 484 825	167 484 835	175 483 615
50	1 1/2	40	167 484 826	167 484 836	175 483 616
63	2	50	167 484 827	167 484 837	175 483 617



Assembly kit

Model:

- Intermediate element for ball valve type 543 horizontal and electric or pneumatic actuators EA21; PA11/21
- Including screws and position indicator for actuators

d (mm)	Inch (inch)	DN (mm)	Code
16 - 20	3/8 - 1/2	10 - 15	167 484 941
25 - 32	3/4 - 1	20 - 25	167 484 942
40 - 50	1 1/4 - 1 1/2	32 - 40	167 484 943
63	2	50	167 484 944



Turn limiter 90°

d (mm)	Size (inch)	DN (mm)	Code
16	3/8	10	167 482 479
20	1/2	15	167 482 479
25	3/4	20	167 482 480
32	1	25	167 482 480
40	1 1/4	32	167 482 481
50	1 1/2	40	167 482 481
63	2	50	167 482 482



Face seal

Model:

- Face seal no. 10

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	¾	10	748 410 059	749 410 059
20	½	15	748 410 059	749 410 059
25	¾	20	748 410 106	749 410 106
32	1	25	748 410 151	749 410 151
40	1 ¼	32	748 410 062	749 410 062
50	1 ½	40	748 410 003	749 410 003
63	2	50	748 410 231	749 410 231
75	2 ½	65	748 410 119	749 410 119
90	3	80	748 410 023	749 410 023
110	4	100	748 410 254	749 410 254



Lever

d (mm)	Size (inch)	DN (mm)
16	¾	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	Standard lever L-port red Code	Standard lever L-port black Code	Standard lever T-port red Code	Standard lever T-port black Code	Multifunctional-lever L-port red Code
16	167 484 488	167 484 376	167 484 588	167 484 576	167 484 442
20	167 484 488	167 484 376	167 484 588	167 484 576	167 484 442
25	167 484 489	167 484 377	167 484 589	167 484 577	167 484 443
32	167 484 490	167 484 378	167 484 590	167 484 578	167 484 444
40	167 484 491	167 484 379	167 484 591	167 484 579	167 484 445
50	167 484 492	167 484 380	167 484 592	167 484 580	167 484 446
63	167 484 493	167 484 381	167 484 593	167 484 581	167 484 447

d (mm)	Multifunctional-lever T-port red Code
16	167 484 542
20	167 484 542
25	167 484 543
32	167 484 544
40	167 484 545
50	167 484 546
63	167 484 547



Ball set L-port

Model:

- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)
- Ball seals standard in PTFE

d	Size	DN
(mm)	(inch)	(mm)
16	3/8	10
20	1/2	15
25	3/4	20
32	1	25
40	1 1/4	32
50	1 1/2	40
63	2	50

d	PVC-U	PVC-U FKM	PVC-C	PVC-C FKM	ABS EPDM	PP-H EPDM
(mm)	EPDM	Code	EPDM	Code	Code	Code
	Code		Code			
16	161 488 162	161 488 172	163 481 982	163 481 992	169 481 282	167 484 882
20	161 488 162	161 488 172	163 481 982	163 481 992	169 481 282	167 484 882
25	161 488 163	161 488 173	163 481 983	163 481 993	169 481 283	167 484 883
32	161 488 164	161 488 174	163 481 984	163 481 994	169 481 284	167 484 884
40	161 488 165	161 488 175	163 481 985	163 481 995	169 481 285	167 484 885
50	161 488 166	161 488 176	163 481 986	163 481 996	169 481 286	167 484 886
63	161 488 167	161 488 177	163 481 987	163 481 997	169 481 287	167 484 887

d	PP-H FKM	PVDF FKM
(mm)	Code	Code
16	167 484 892	175 483 642
20	167 484 892	175 483 642
25	167 484 893	175 483 643
32	167 484 894	175 483 644
40	167 484 895	175 483 645
50	167 484 896	175 483 646
63	167 484 897	175 483 647

Spare parts ball valve type 370



Lever

d-d	Inch	DN-DN	PVC-U	PVC-U black
(mm)	(inch)	(mm)	orange	Code
			Code	
-- 75	2 1/2	-- 65	161 480 763	161 481 260
-- 90	3	-- 80	161 480 764	161 481 261
110 - 160	4 - 6	100 - 150	161 480 420	161 481 262



Seal set

Model:

- Seal set consisting of: backing-, body- and stem seal (3-5)

d-d (mm)	Inch (inch)	DN-DN (mm)	EPDM Code	FKM Code
-- 75	2 ½	-- 65		161 482 974
-- 90	3	-- 80	161 482 969	161 482 975
110 - 160	4 - 6	100 - 150	161 482 970	161 482 976



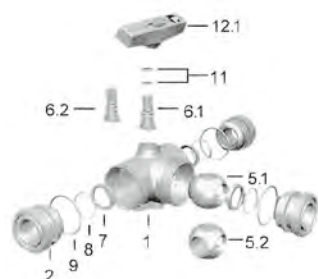
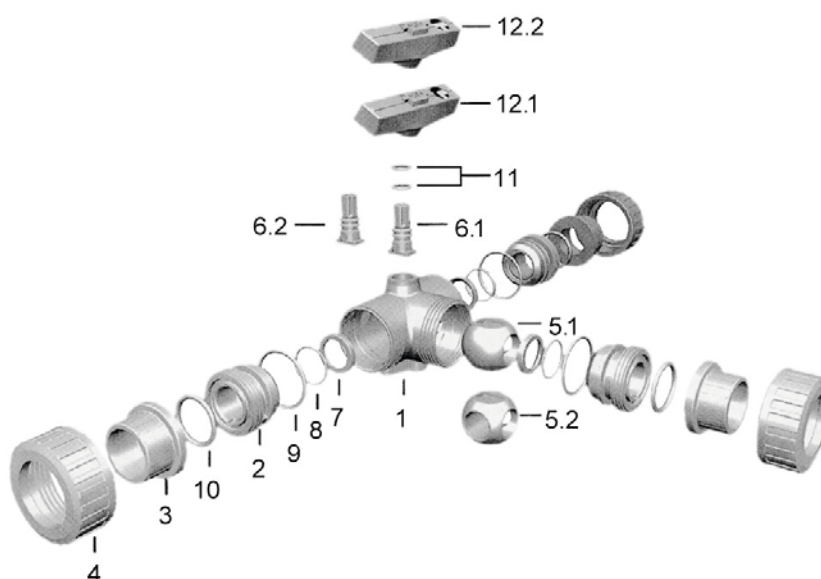
Face seal

Model:

- Face seal no. 9

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
75	2 ½	65	748 410 119	749 410 119
90	3	80	748 410 112	749 410 112
110	4	100	748 410 099	749 410 099

Spare parts ball valve type 343 horizontal



Central part T-port

Model:

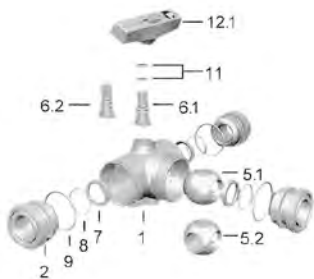
- Central part consisting of: lever (12.1), body (1), union bush (2), ball (5.2), stem (6.2), ball-, backing-, body- and stem seal (7-9,11)
- Ball seals standard in PTFE

d (mm)	Size (inch)	DN (mm)
16	¾	10
20	½	15
25	¾	20

d	Size	DN
(mm)	(inch)	(mm)
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
(mm)						
16	161 490 461	161 490 472	163 480 935	163 480 946	169 480 490	167 482 159
20	161 490 461	161 490 472	163 480 935	163 480 946	169 480 490	167 482 159
25	161 490 462	161 490 473	163 480 936	163 480 947	169 480 491	167 482 160
32	161 490 463	161 490 474	163 480 937	163 480 948	169 480 492	167 482 161
40	161 490 464	161 490 475	163 480 938	163 480 949	169 480 493	167 482 162
50	161 490 465	161 490 476	163 480 939	163 480 950	169 480 494	167 482 163
63	161 490 466	161 490 477	163 480 940	163 480 951	169 480 495	167 482 164

d	PP-H FKM Code	PVDF FKM Code
(mm)		
16	167 482 170	175 482 620
20	167 482 170	175 482 620
25	167 482 171	175 482 621
32	167 482 172	175 482 622
40	167 482 173	175 482 623
50	167 482 174	175 482 624
63	167 482 175	175 482 625



Central part L-port

Model:

- Ball seals standard in PTFE
- Central part consisting of: lever (12.1), body (1), union bush (2), ball (5.1), stem (6.1), ball-, backing-, body- and stem seal (7-9,11)

d	Size	DN
(mm)	(inch)	(mm)
16	¾	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
(mm)						
16	161 490 439	161 490 450	163 480 913	163 480 924	169 480 468	167 482 137
20	161 490 439	161 490 450	163 480 913	163 480 924	169 480 468	167 482 137
25	161 490 440	161 490 451	163 480 914	163 480 925	169 480 469	167 482 138
32	161 490 441	161 490 452	163 480 915	163 480 926	169 480 470	167 482 139
40	161 490 442	161 490 453	163 480 916	163 480 927	169 480 471	167 482 140
50	161 490 443	161 490 454	163 480 917	163 480 928	169 480 472	167 482 141
63	161 490 444	161 490 455	163 480 918	163 480 929	169 480 473	167 482 142

d	PP-H FKM Code	PVDF FKM Code
(mm)		
16	167 482 148	175 482 593
20	167 482 148	175 482 593
25	167 482 149	175 482 594

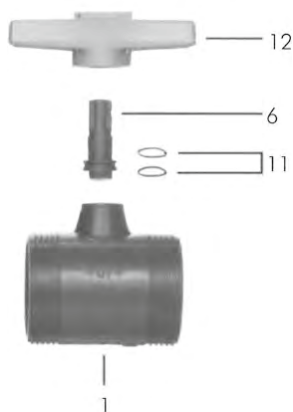
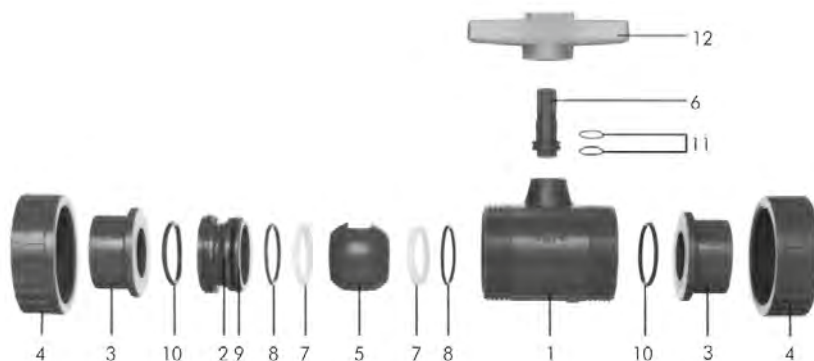
d (mm)	PP-H FKM Code	PVDF FKM Code
32	167 482 150	175 482 595
40	167 482 151	175 482 596
50	167 482 152	175 482 597
63	167 482 153	175 482 598



Lever

d (mm)	Size (inch)	DN (mm)	L-port Code	T-port Code
16	¾	10	161 482 151	161 486 175
20	½	15	161 482 151	161 486 175
25	¾	20	161 482 152	161 486 176
32	1	25	161 482 153	161 486 177
40	1 ¼	32	161 482 154	161 486 178
50	1 ½	40	161 482 155	161 486 179
63	2	50	161 482 156	161 486 180

Spare parts ball valve type 346



Central part

Model:

- Ball seals standard in PTFE
- Central part consisting of: lever red (12), body (1), union bush (2), ball (5), stem (6), ball-, back- ing-, body- and stem seal (7-9,11)

d (mm)	Size (inch)	DN (mm)
16	¾	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
16	161 483 930	161 483 940	163 480 620	163 480 630	169 480 301	167 480 806
20	161 483 931	161 483 941	163 480 621	163 480 631	169 480 301	167 480 807
25	161 483 932	161 483 942	163 480 622	163 480 632	169 480 302	167 480 808

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
32	161 483 933	161 483 943	163 480 623	163 480 633	169 480 303	167 480 809
40	161 483 934	161 483 944	163 480 624	163 480 634	169 480 304	167 480 810
50	161 483 935	161 483 945	163 480 625	163 480 635	169 480 305	167 480 811
63	161 483 936	161 483 946	163 480 626	163 480 636	169 480 306	167 480 812

d (mm)	PP-H FKM Code	PVDF FKM Code
16	167 480 813	175 480 825
20	167 480 814	175 480 826
25	167 480 815	175 480 827
32	167 480 816	175 480 828
40	167 480 817	175 480 829
50	167 480 818	175 480 830
63	167 480 819	175 480 831



Lever

d (mm)	Size (inch)	DN (mm)	PVC-U orange Code	ASA black Code
16	3/8	10	161 480 725	160 480 115
20	1/2	15	161 480 725	160 480 115
25	3/4	20	161 480 726	160 480 116
32	1	25	161 480 727	160 480 117
40	1 1/4	32	161 480 728	160 480 118
50	1 1/2	40	161 480 729	160 480 119
63	2	50	161 480 730	160 480 120



Face seal

Model:

- Face seal no. 10

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	3/8	10	748 410 042	749 410 042
20	1/2	15	748 410 042	749 410 042
25	3/4	20	748 410 116	749 410 116
32	1	25	748 410 103	749 410 103
40	1 1/4	32	748 410 027	749 410 027
50	1 1/2	40	748 410 010	749 410 010
63	2	50	748 410 011	749 410 011

Spare parts ball valve type 546



Central part

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code
16	¾	10	161 486 151	161 486 163	163 481 251	163 481 263	169 480 751
20	½	15	161 486 151	161 486 163	163 481 251	163 481 263	169 480 751
25	¾	20	161 486 152	161 486 164	163 481 252	163 481 264	169 480 752
32	1	25	161 486 153	161 486 165	163 481 253	163 481 265	169 480 753
40	1 ¼	32	161 486 154	161 486 166	163 481 254	163 481 266	169 480 754
50	1 ½	40	161 486 155	161 486 167	163 481 255	163 481 267	169 480 755
63	2	50	161 486 156	161 486 168	163 481 256	163 481 268	169 480 756
75	2 ½	65	161 486 157	161 486 169	163 481 257	163 481 269	169 480 757
90	3	80	161 486 158	161 486 170	163 481 258	163 481 270	169 480 758
110	4	100	161 486 159	161 486 171	163 481 259	163 481 271	169 480 759

d (mm)	Size (inch)	DN (mm)	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code
16	¾	10	167 482 876	167 482 888	175 482 963
20	½	15	167 482 876	167 482 888	175 482 963
25	¾	20	167 482 877	167 482 889	175 482 964
32	1	25	167 482 878	167 482 890	175 482 965
40	1 ¼	32	167 482 879	167 482 891	175 482 966
50	1 ½	40	167 482 880	167 482 892	175 482 967
63	2	50	167 482 881	167 482 893	175 482 968
75	2 ½	65	167 482 882	167 482 894	175 482 969
90	3	80	167 482 883	167 482 895	175 482 970
110	4	100	167 482 884	167 482 896	175 482 971



DN10/15 - 50



DN10/15 - 50



Lever 546

d (mm)	Size (inch)	DN (mm)	Standard lever red Code	Standard lever black Code	Multifunctional lever Code
16	3/8	10	167 484 088	167 484 076	167 484 100
20	1/2	15	167 484 088	167 484 076	167 484 100
25	3/4	20	167 484 089	167 484 077	167 484 101
32	1	25	167 484 090	167 484 078	167 484 102
40	1 1/4	32	167 484 091	167 484 079	167 484 103
50	1 1/2	40	167 484 092	167 484 080	167 484 104
63	2	50	167 484 093	167 484 081	167 484 105
75	2 1/2	65	167 484 094	167 484 082	161 486 689
90	3	80	167 484 095	167 484 083	161 486 690
110	4	100	167 484 096	167 484 084	161 486 691



Face seal

Model:

- Face seal no. 10

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	3/8	10	748 410 059	749 410 059
20	1/2	15	748 410 059	749 410 059
25	3/4	20	748 410 106	749 410 106
32	1	25	748 410 151	749 410 151
40	1 1/4	32	748 410 062	749 410 062
50	1 1/2	40	748 410 003	749 410 003
63	2	50	748 410 231	749 410 231
75	2 1/2	65	748 410 119	749 410 119
90	3	80	748 410 023	749 410 023
110	4	100	748 410 254	749 410 254



Seal set for ball valve 546 (Pro)

Model:

- Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d (mm)	Size (inch)	DN (mm)	DN (mm)	EPDM Code	FKM Code	KALREZ Code
16 - 20	1/2	15	10 - 15	161 486 400	161 486 410	161 488 280
25	3/4	20	20	161 486 401	161 486 411	161 488 281
32	1	25	25	161 486 402	161 486 412	161 488 282
40	1 1/4	32	32	161 486 403	161 486 413	161 488 283
50	1 1/2	40	40	161 486 404	161 486 414	161 488 284
63	2	50	50	161 486 405	161 486 415	161 488 285
75	2 1/2	65	65	161 486 406	161 486 416	
90	3	80	80	161 486 407	161 486 417	
110	4	100	100	161 486 408	161 486 418	



Ball set

Model:

- Ball seals standard in PTFE
- Ball set consisting of: ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code
16	¾	10	161 486 375	161 486 385	163 481 375	163 481 385	169 480 900
20	½	15	161 486 375	161 486 385	163 481 375	163 481 385	169 480 900
25	¾	20	161 486 376	161 486 386	163 481 376	163 481 386	169 480 901
32	1	25	161 486 377	161 486 387	163 481 377	163 481 387	169 480 902
40	1 ¼	32	161 486 378	161 486 388	163 481 378	163 481 388	169 480 903
50	1 ½	40	161 486 379	161 486 389	163 481 379	163 481 389	169 480 904
63	2	50	161 486 380	161 486 390	163 481 380	163 481 390	169 480 905
75	2 ½	65	161 486 381	161 486 391	163 481 381	163 481 391	169 480 906
90	3	80	161 486 382	161 486 392	163 481 382	163 481 392	169 480 907
110	4	100	161 486 383	161 486 393	163 481 383	163 481 393	169 480 908

d (mm)	Size (inch)	DN (mm)	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code
16	¾	10	167 484 125	167 484 135	175 483 275
20	½	15	167 484 125	167 484 135	175 483 275
25	¾	20	167 484 126	167 484 136	175 483 276
32	1	25	167 484 127	167 484 137	175 483 277
40	1 ¼	32	167 484 128	167 484 138	175 483 278
50	1 ½	40	167 484 129	167 484 139	175 483 279
63	2	50	167 484 130	167 484 140	175 483 280
75	2 ½	65	167 484 131	167 484 141	175 483 281
90	3	80	167 484 132	167 484 142	175 483 282
110	4	100	167 484 133	167 484 143	175 483 283

Spare parts for valve body type 519

Valve body with butt fusion spigot



d (mm)	Size (inch)	PP-H Code	PP-Natur Code	PVDF HP Code	Weight (kg)
20 - 20	½	167 485 911	168 480 601	180 001 101	0.171
25 - 20	¾	167 485 912	168 480 602	180 001 102	0.236
25 - 25	¾	167 485 913	168 480 603	180 001 103	0.239
32 - 20	1	167 485 914	168 480 604	180 001 104	0.289
32 - 25	1	167 485 915	168 480 605	180 001 105	0.293
32 - 32	1	167 485 916	168 480 606	180 001 106	0.334
40 - 20	1 ¼	167 485 917	168 480 607	180 001 107	0.388
40 - 25	1 ¼			180 001 108	0.392
40 - 32	1 ¼			180 001 109	0.410
40 - 40	1 ¼			180 001 110	0.439
50 - 20	1 ½	167 485 922	168 480 611	180 001 111	0.408
50 - 25	1 ½	167 485 923	168 480 612	180 001 112	0.478
50 - 32	1 ½	167 485 924	168 480 613	180 001 113	0.483
50 - 40	1 ½			180 001 114	1.101
50 - 50	1 ½			180 001 115	1.111
63 - 20	2	167 485 927	168 480 616	180 001 116	0.485
63 - 25	2	167 485 928	168 480 617	180 001 117	0.563
63 - 32	2	167 485 929	168 480 618	180 001 118	0.569
63 - 40	2			180 001 119	1.278
63 - 50	2			180 001 120	1.343
63 - 63	2			180 001 121	1.356
90 - 25	3			180 001 126	0.855
90 - 32	3			180 001 127	0.871
90 - 50	3			180 001 128	1.796

d (mm)	Size (inch)	PP-H Code	PP-Natur Code	PVDF HP Code	Weight (kg)
90 - 63	3			180 001 129	1.824
110 - 20	4			180 001 130	1.118
110 - 25	4			180 001 131	1.124
110 - 32	4			180 001 132	1.141
110 - 50	4			180 001 133	2.212
110 - 63	4			180 001 134	2.242

Spare parts for valve body type 515

Valve body with spigot ends



d (mm)	DN (mm)	Size (inch)	PVC-U solvent cement spigot Code	Weight (kg)
20	15	½	161 492 072	0.115
25	20	¾	161 492 073	0.183
32	25	1	161 492 074	0.246
40	32	1 ¼	161 492 075	0.379
50	40	1 ½	161 492 076	0.602
63	50	2	161 492 077	1.055



d (mm)	PVC-C solvent cement spigot Code	ABS solvent cement spigot Code	PP-H socket fusion spigot Code	PP-H butt fusion spigot IR Code	PP-N butt fusion spigot IR Code	PVDF socket fusion spigot Code
20	163 482 062	169 481 862	167 483 342	167 483 882	168 480 462	175 483 692
25	163 482 063	169 481 863	167 483 343	167 483 883	168 480 463	175 483 693
32	163 482 064	169 481 864	167 483 344	167 483 884	168 480 464	175 483 694
40	163 482 065	169 481 865	167 483 345	167 483 885	168 480 465	175 483 695
50	163 482 066	169 481 866	167 483 346	167 483 886	168 480 466	175 483 696
63	163 482 067	169 481 867	167 483 347	167 483 887	168 480 467	175 483 697



d (mm)	PVDF butt fusion spigot IR Code	PVDF HP butt fusion spigot IR Code
20	175 483 742	180 001 012
25	175 483 743	180 001 013
32	175 483 744	180 001 014
40	175 483 745	180 001 015
50	175 483 746	180 001 016
63	175 483 747	180 001 017



Mounting Tool type 604/605

Model:

- Hook wrench for easy opening & maintenance

Code	Weight (kg)
700 278 354	0.41

Spare parts for automatic valves

Diastar Six/Ten/Sixteen



Actuators

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	DIASTAR Six FC Code	DIASTAR Ten FC Code	Diastar Ten + FC Code	Diastar Sixteen FC Code	Diastar Ten FO Code	Diastar Ten DA Code
20	198 151 762	198 151 772	198 153 062	198 151 782	198 151 792	198 151 802
25	198 151 763	198 151 773	198 153 063	198 151 783	198 151 793	198 151 803
32	198 151 764	198 151 774	198 153 064	198 151 784	198 151 794	198 151 804
40	198 151 765	198 151 775	198 153 065	198 151 785	198 151 795	198 151 805
50	198 151 766	198 151 776	198 153 066	198 151 786	198 151 796	198 151 806
63	198 151 767	198 151 777	198 153 067	198 151 787	198 151 797	198 151 807

Indicator cap

Size (mm)	Code
1-2	198 806 773
3-5	198 806 774





Compressor set

Model:

- Incl. diaphragm holder

d (mm)	Inch (inch)	DN (mm)	Code
20	1/2	15	198 000 872
25	3/4	20	198 000 873
32	1	25	198 000 874
40	1 1/4	32	198 000 875
50	1 1/2	40	198 000 876
63	2	50	198 000 877

Seal set for DIASTAR Ten

Model:

- Spindle seal and piston seal



DN (mm)	Diastar Ten Code
15	198 000 881
20/25	198 000 882
32	198 000 883
40/50	198 000 884

Spare parts for hand-operated valves Type 514/515/517/519





Bonnet complete

Model:

- Incl. compressor
- Diaphragm is not included

d (mm)	Size (inch)	DN (mm)	Standard configuration PN10 Code	For pressure tight housing PN10 Code	Standard configuration PN16 Code	For pressure tight housing PN16 Code
20	¾	15	198 151 742	198 151 752	198 151 842	198 151 852
25	¾	20	198 151 743	198 151 753	198 151 843	198 151 853
32	1	25	198 151 744	198 151 754	198 151 844	198 151 854
40	1 ¼	32	198 151 745	198 151 755	198 151 845	198 151 855
50	1 ½	40	198 151 746	198 151 756	198 151 846	198 151 856
63	2	50	198 151 747	198 151 757	198 151 847	198 151 857



Spindle assembly

Model:

- Incl. compressor
- Position indicator is not included

DN-DN (mm)	Code
15 - 20	198 204 327
25 - 32	198 204 328
40 - 50	198 204 329



Position indicator

d (mm)	Size (inch)	DN (mm)	Code
20	¾	15	167 484 992
25	¾	20	167 484 993
32	1	25	167 484 994
40	1 ¼	32	167 484 995
50	1 ½	40	167 484 996
63	2	50	167 484 997



Hand wheel

Model:

- Without position indicator

DN (mm)	Code
15 - 20	198 204 162
25 - 32	198 204 164
40 - 50	198 104 166

Seal set



Model:

- For manual valve - pressure tight housing
- Incl. position indicator

d (mm)	Size (inch)	DN (mm)	EPDM Code
20	½	15	198 000 892
25	¾	20	198 000 893
32	1	25	198 000 894
40	1 ¼	32	198 000 895
50	1 ½	40	198 000 896
63	2	50	198 000 897

Spare parts for valve body type 514



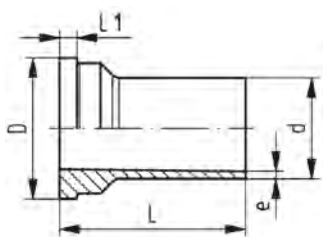
O-ring

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code	FKM for PVDF standard Code	FKM for PVDF-HP Code
20	½	15	748 410 006	749 410 006	749 410 005	749 411 005
25	¾	20	748 410 007	749 410 007	749 410 006	749 411 006
32	1	25	748 410 008	749 410 008	749 410 120	749 411 120
40	1 ¼	32	748 410 009	749 410 009	749 410 062	749 411 062
50	1 ½	40	748 410 010	749 410 010	749 410 172	749 411 172
63	2	50	748 410 011	749 410 011	749 410 054	749 411 054

SYGEF Standard Union end SDR21/PN16

Model:

- Material: PVDF



d (mm)	FM	PVDF Code	D (mm)	L (mm)	L1 (mm)	e (mm)
20	BCF, IR	735 608 606	30	53	5	1.9
25	BCF, IR	735 608 607	39	56	5	1.9
32	BCF, IR	735 608 608	45	59	6	2.4
40	BCF, IR	735 608 609	57	62	6	2.4
50	BCF, IR	735 608 610	63	65	7	3.0
63	BCF, IR	735 608 611	78	68	8	3.0
75	BCF, IR	735 608 612	101	66	9	3.6
90	BCF, IR	735 608 613	101	65	9	4.3
110	BCF, IR	735 608 614	121	65	10	5.3



Union end PVC-U Rc
for diaphragm valves type 514/DIASTAR, pressure regulating valves type 582/586 and variable area flow meters type 123/335/350 (6)

DN (mm)	d (mm)	Size (inch)	PVC-U Rc Code
15	20	½	721 605 606
20	25	¾	721 605 607
25	32	1	721 605 608
32	40	1 ¼	721 605 609
40	50	1 ½	721 605 610
50	63	2	721 605 611

Valve body with true union



Model:

- Without connection parts

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
20	½	15	161 492 062	163 482 052	169 481 322	167 483 522	175 483 682
25	¾	20	161 492 063	163 482 053	169 481 323	167 483 523	175 483 683
32	1	25	161 492 064	163 482 054	169 481 334	167 483 524	175 483 684
40	1 ¼	32	161 492 065	163 482 055	169 481 325	167 483 525	175 483 685
50	1 ½	40	161 492 066	163 482 056	169 481 326	167 483 526	175 483 686
63	2	50	161 492 067	163 482 057	169 481 327	167 483 527	175 483 687

d (mm)	Size (inch)	DN (mm)	PVDF HP Code
20	½	15	180 001 002
25	¾	20	180 001 003
32	1	25	180 001 004
40	1 ¼	32	180 001 005
50	1 ½	40	180 001 006
63	2	50	180 001 007

Special wrench for DV

d (mm)	DN (mm)	Code
20	15	198 154 012
25	20	198 154 013
32	25	198 154 014
40	32	198 154 015
50	40	198 154 016
63	50	198 154 017



Spare parts diaphragm For 5 series

Model:

- For type 514, 515, 517, 519 and Diastar

d	Size	DN
(mm)	(inch)	(mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d	NBR	EPDM	FKM	PTFE/EPDM	PTFE/EPDM	PTFE/FKM
(mm)	Code	Code	Code	Code	HP	Code
					Code	
20	745 500 012	748 500 012	749 500 012	747 502 012	747 502 032	747 503 012
25	745 500 013	748 500 013	749 500 013	747 502 013	747 502 033	747 503 013
32	745 500 014	748 500 014	749 500 014	747 502 014	747 502 034	747 503 014
40	745 500 015	748 500 015	749 500 015	747 502 015	747 502 035	747 503 015
50	745 500 016	748 500 016	749 500 016	747 502 016	747 502 036	747 503 016
63	745 500 017	748 500 017	749 500 017	747 502 017	747 502 037	747 503 017



Spare parts for valve body type 517 Flat gasket

d	Size	DN	EPDM	FKM
(mm)	(inch)	(mm)	Code	Code
20	½	15	748 400 006	749 400 006
25	¾	20	748 400 007	749 400 007
32	1	25	748 400 008	749 400 008
40	1 ¼	32	748 400 009	749 400 009
50	1 ½	40	748 400 010	749 400 010
63	2	50	748 400 011	749 400 011

Spare parts diaphragm valve type 314





Bonnet complete

Model:

- Without diaphragm (1, 3)

d (mm)	Size (inch)	DN (mm)	elastomer diaphragm Code	PTFE diaphragm Code
20	½	15	161 484 625	161 484 632
25	¾	20	161 484 626	161 484 633
32	1	25	161 484 627	161 484 634
40	1 ¼	32	161 484 628	161 484 635
50	1 ½	40	161 484 629	161 484 636
63	2	50	161 484 630	161 484 637



Union end seal for PP-H and PVDF valves

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
20	½	15	748 410 006	749 410 006
25	¾	20	748 410 007	749 410 007
32	1	25	748 410 008	749 410 008
40	1 ¼	32	748 410 009	749 410 009
50	1 ½	40	748 410 010	749 410 010
63	2	50	748 410 011	749 410 011



Union end seal for PVC-U valves

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
20	½	15	748 410 038	749 410 038
25	¾	20	748 410 044	749 410 044
32	1	25	748 410 195	749 410 195
40	1 ¼	32	748 410 052	749 410 052
50	1 ½	40	748 410 134	749 410 134
63	2	50	748 410 135	749 410 135



Fastening set (4)

Model:

- * with support plate

d (mm)	Size (inch)	DN (mm)	for PVC-U PVC-C ABS Code	for PP PVDF * Code
20	½	15	161 484 704	198 000 650
25	¾	20	161 484 705	198 000 651
32	1	25	161 484 706	198 000 652
40	1 ¼	32	161 484 707	198 000 653
50	1 ½	40	161 484 708	198 000 654
63	2	50	161 484 709	198 000 655



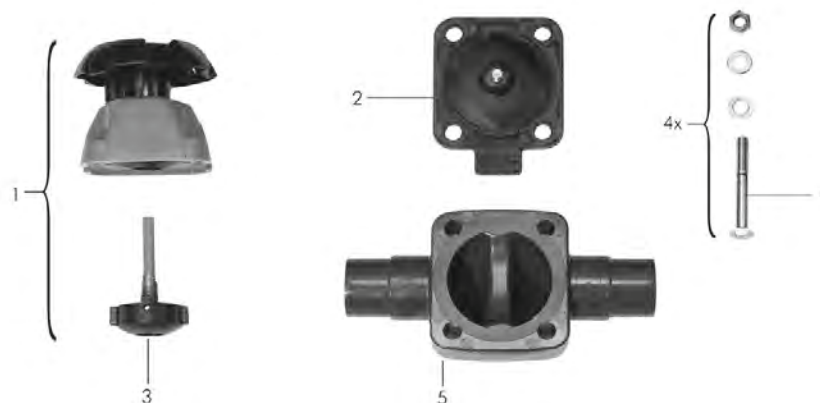
Diaphragm (2)

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	NBR Code	EPDM Code	FKM Code	PTFE/EPDM Code	PTFE/FKM Code	CSM Code
20	161 311 710	161 481 022	161 481 092	161 311 698	161 481 926	161 311 728
25	161 311 711	161 481 023	161 481 093	161 311 699	161 481 927	161 311 729
32	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
40	161 311 713	161 481 025	161 481 095	161 311 701	161 481 929	161 311 731
50	161 311 714	161 481 026	161 481 096	161 311 702	161 481 930	161 311 732
63	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931	161 311 733

d (mm)	PTFE/EPDM SYGEF PLUS HP Code
20	161 484 452
25	161 484 453
32	161 484 454
40	161 484 455
50	161 484 456
63	161 484 457

Spare parts diaphragm valve type 315



Bonnet complete

Model:

- Without diaphragm (1, 3)

d (mm)	Size (inch)	DN (mm)	elastomer diaphragm Code	PTFE diaphragm Code
20	½	15	161 484 625	161 484 632
25	¾	20	161 484 626	161 484 633
32	1	25	161 484 627	161 484 634
40	1 ¼	32	161 484 628	161 484 635
50	1 ½	40	161 484 629	161 484 636
63	2	50	161 484 630	161 484 637





Diaphragm (2)

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	NBR Code	EPDM Code	FKM Code	PTFE/EPDM Code	PTFE/FKM Code	CSM Code
20	161 311 710	161 481 022	161 481 092	161 311 698	161 481 926	161 311 728
25	161 311 711	161 481 023	161 481 093	161 311 699	161 481 927	161 311 729
32	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
40	161 311 713	161 481 025	161 481 095	161 311 701	161 481 929	161 311 731
50	161 311 714	161 481 026	161 481 096	161 311 702	161 481 930	161 311 732
63	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931	161 311 733

d (mm)	PTFE/EPDM SYGEF PLUS HP Code
20	161 484 452
25	161 484 453
32	161 484 454
40	161 484 455
50	161 484 456
63	161 484 457



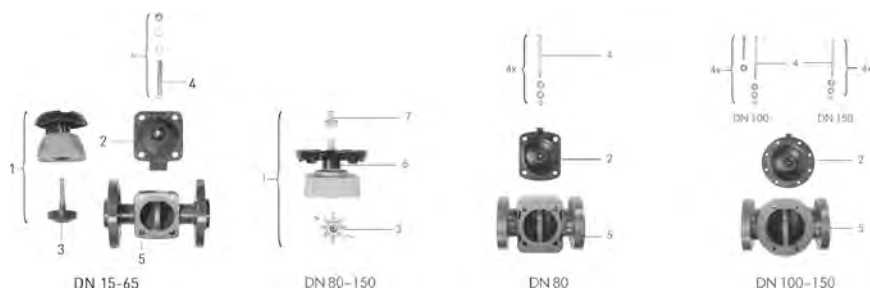
Fastening set (4)

Model:

- * with support plate

d (mm)	Size (inch)	DN (mm)	for PVC-U PVC-C ABS Code	for PP PVDF * Code
20	½	15	161 484 704	198 000 650
25	¾	20	161 484 705	198 000 651
32	1	25	161 484 706	198 000 652
40	1 ¼	32	161 484 707	198 000 653
50	1 ½	40	161 484 708	198 000 654
63	2	50	161 484 709	198 000 655

Spare parts diaphragm valve type 317





Bonnet complete

Model:

- Without diaphragm (1, 3)

d (mm)	Size (inch)	DN (mm)	elastomer diaphragm Code	PTFE diaphragm Code
20	½	15	161 484 625	161 484 632
25	¾	20	161 484 626	161 484 633
32	1	25	161 484 627	161 484 634
40	1 ¼	32	161 484 628	161 484 635
50	1 ½	40	161 484 629	161 484 636
63	2	50	161 484 630	161 484 637
75	2 ½	65	161 484 631	161 484 638
90	3	80	161 482 514	161 482 516
110	4	100	161 482 515	161 482 517
160	6	150	161 482 901	161 482 906



Diaphragm (2)

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80
110	4	100
160	6	150

d (mm)	NBR Code	EPDM Code	FKM Code	PTFE/EPDM Code	PTFE/FKM Code	PTFE/EPDM HP Code
20	161 311 710	161 481 022	161 481 092	161 311 698	161 481 926	161 484 452
25	161 311 711	161 481 023	161 481 093	161 311 699	161 481 927	161 484 453
32	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 484 454
40	161 311 713	161 481 025	161 481 095	161 311 701	161 481 929	161 484 455
50	161 311 714	161 481 026	161 481 096	161 311 702	161 481 930	161 484 456
63	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931	161 484 457
75	161 480 231	161 481 028	161 481 098	161 480 240	161 481 932	161 484 458
90	161 480 232	161 481 029	161 481 099	161 480 241		161 484 459
110	161 480 233	161 481 030	161 481 100	161 480 242		161 484 460
160	161 482 751	161 482 754	161 481 102	161 482 760		161 482 760

d (mm)	CSM Code
20	161 311 728
25	161 311 729
32	161 311 730
40	161 311 731
50	161 311 732
63	161 311 733
75	161 480 237
90	161 480 238
110	161 480 239
160	161 482 757



Fastening set (4)

Model:

- * with support plate

d (mm)	Size (inch)	DN (mm)	for PVC-U PVC-C ABS Code	for PP PVDF * Code
20	½	15	161 484 704	198 000 650
25	¾	20	161 484 705	198 000 651
32	1	25	161 484 706	198 000 652
40	1 ¼	32	161 484 707	198 000 653
50	1 ½	40	161 484 708	198 000 654
63	2	50	161 484 709	198 000 655
75	2 ½	65	161 483 032	161 483 032
90	3	80	161 483 033	161 483 033
110	4	100	161 483 034	161 483 034
160	6	150	161 483 037	161 483 037



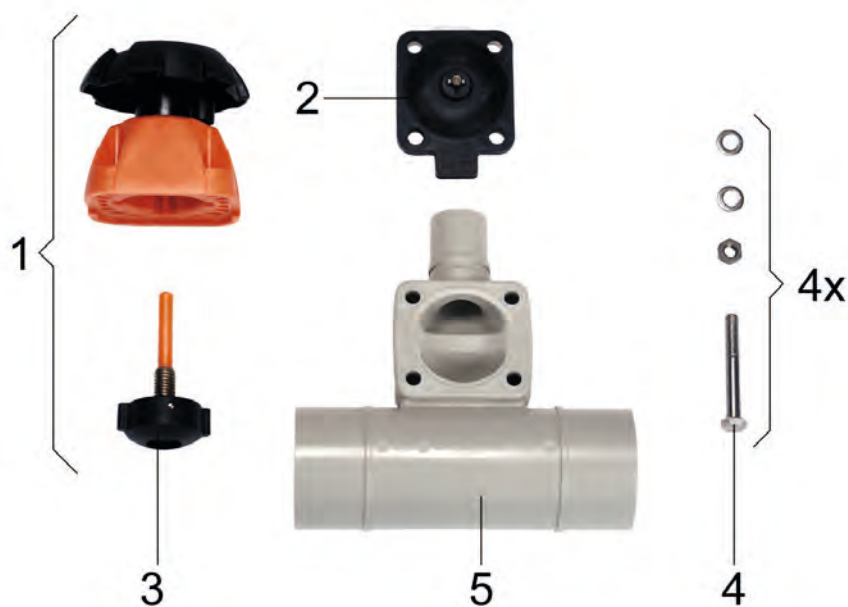
O-ring seal (6)

d (mm)	Size (inch)	DN (mm)	EPDM Code	NBR Code
90	3	80		745 410 107
110	4	100		745 410 107
160	6	150	748 410 121	

Indicator cap (7)

d (mm)	Size (inch)	DN (mm)	PVC-U SAN Code
90	3	80	161 481 759
110	4	100	161 481 760
160	6	150	161 482 744

Spare parts diaphragm valve type 319





Bonnet complete

Model:

- Without diaphragm (1, 3)

d (mm)	Size (inch)	elastomer diaphragm Code	PTFE diaphragm Code
20-20	1/2	161 484 625	161 484 632
25-20	3/4	161 484 626	161 484 633
25-25	3/4	161 484 626	161 484 633
32-20	1	161 484 627	161 484 634
32-25	1	161 484 627	161 484 634
32-32	1	161 484 627	161 484 634
40-20	1 1/4	161 484 627	161 484 634
40-25	1 1/4	161 484 627	175 481 860
40-32	1 1/4	161 484 627	175 481 860
40-40	1 1/4	161 484 628	175 481 861
50-20	1 1/2	161 484 627	161 484 634
50-25	1 1/2	161 484 627	161 484 634
50-32	1 1/2	161 484 627	161 484 634
50-40	1 1/2	161 484 629	175 481 862
50-50	1 1/2	161 484 629	175 481 862
63-20	2	161 484 627	161 484 634
63-25	2	161 484 627	161 484 634
63-32	2	161 484 627	161 484 634
63-40	2	161 484 630	175 481 863
63-50	2	161 484 630	175 481 863
63-63	2	161 484 630	175 481 863
75-40	2 1/2	161 484 628	175 481 861
75-50	2 1/2	161 484 630	175 481 863
75-63	2 1/2	161 484 630	175 481 863
90-20	3	161 484 627	161 484 634
90-25	3	161 484 627	161 484 634
90-32	3	161 484 627	161 484 634
90-50	3	161 484 630	161 484 636
90-63	3	161 484 630	161 484 636
110-20	4	161 484 627	161 484 634
110-25	4	161 484 627	161 484 634
110-32	4	161 484 627	161 484 634
110-50	4	161 484 630	161 484 636
110-63	4	161 484 630	161 484 636



Diaphragm (2)

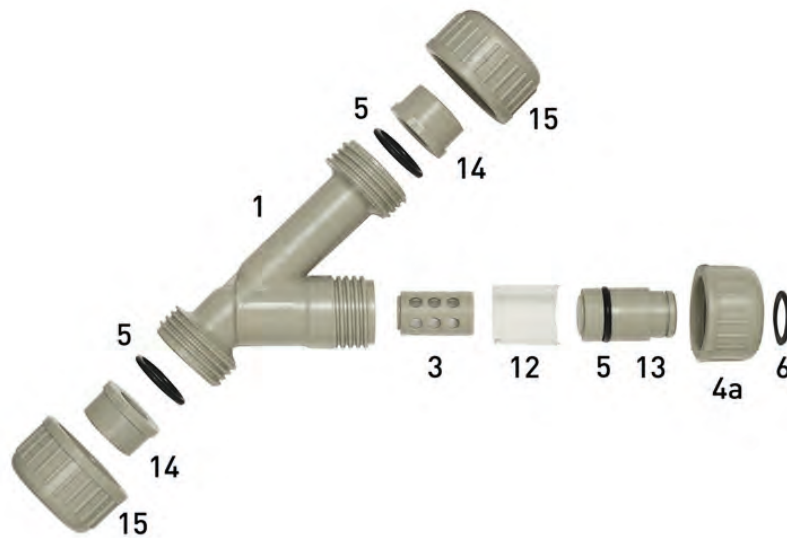
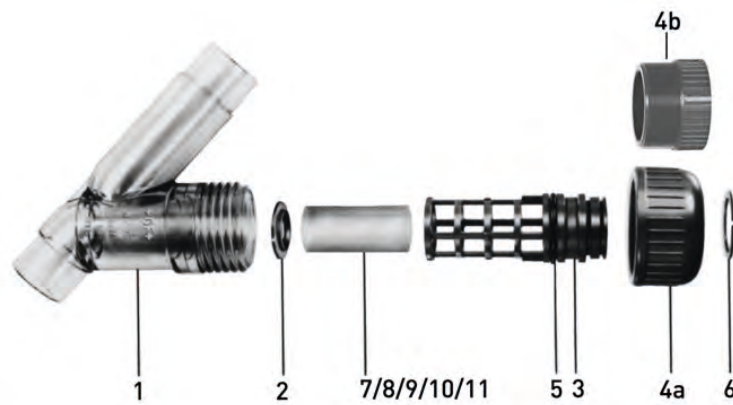
d (mm)	NBR Code	EPDM Code	FKM Code	PTFE/EPDM Code	PTFE/FKM Code	CSM Code
20-20	161 311 710	161 481 022	161 481 092	161 311 698	161 481 926	161 311 728
25-20	161 311 711	161 481 023	161 481 093	161 311 699	161 481 927	161 311 729
25-25	161 311 711	161 481 023	161 481 093	161 311 699	161 481 927	161 311 729
32-20	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
32-25	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
32-32	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
40-20	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
40-25	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
40-32	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
40-40	161 311 713	161 481 025	161 481 095	161 311 701	161 481 929	161 311 731
50-20	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
50-25	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
50-32	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
50-40	161 311 714	161 481 026	161 481 096	161 311 702	161 481 930	161 311 732
50-50	161 311 714	161 481 026	161 481 096	161 311 702	161 481 930	161 311 732
63-20	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
63-25	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730

table continued on the next page

d (mm)	NBR Code	EPDM Code	FKM Code	PTFE/EPDM Code	PTFE/FKM Code	CSM Code
63-32	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
63-40	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931	161 311 733
63-50	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931	161 311 733
63-63	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931	161 311 733
75-40	161 311 715	161 481 025	161 481 095	161 311 701	161 481 929	161 311 731
75-50	161 311 715	161 481 027	161 481 095	161 311 703	161 481 931	161 311 733
75-63	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931	161 311 733
90-20	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
90-25	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
90-32	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
90-50	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931	161 311 733
90-63	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931	161 311 733
110-20	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
110-25	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
110-32	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928	161 311 730
110-50	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931	161 311 733
110-63	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931	161 311 733

d (mm)	PTFE/EPDM SYGEF PLUS Code
20-20	161 484 452
25-20	161 484 453
25-25	161 484 453
32-20	161 484 454
32-25	161 484 454
32-32	161 484 454
40-20	161 484 454
40-25	161 484 454
40-32	161 484 454
40-40	161 484 455
50-20	161 484 454
50-25	161 484 454
50-32	161 484 454
50-40	161 484 456
50-50	161 484 456
63-20	161 484 454
63-25	161 484 454
63-32	161 484 454
63-40	161 484 457
63-50	161 484 457
63-63	161 484 457
75-40	161 484 455
75-50	161 484 457
75-63	161 484 457
90-20	161 484 454
90-25	161 484 454
90-32	161 484 454
90-50	161 484 457
90-63	161 484 457
110-20	161 484 454
110-25	161 484 454
110-32	161 484 454
110-50	161 484 457
110-63	161 484 457

Spare parts line strainer type 305/306



Body (1)

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80

d (mm)	PVC-U transparent Code	PVC-U transparent ASTM Code	PVC-C Code	ABS Code	PP-H Code	PVC-U metric Code
20	192 300 301	192 480 001	163 481 075	169 480 600	167 305 010	161 300 301
25	192 300 351	192 480 002	163 481 076	169 480 601	167 305 011	161 300 351
32	192 300 401	192 301 401	163 481 077	169 480 602	167 305 012	161 300 401
40	192 300 451	192 301 451	163 481 078	169 480 603	167 305 013	161 300 451
50	192 300 501	192 301 501	163 481 079	169 480 604	167 305 014	161 300 501
63	192 300 551	192 301 551	163 481 080	169 480 605	167 305 015	161 300 551
75	192 300 601					161 300 601
90	192 300 651					161 300 651



Screen set

Model:

- Screen set PVC-U and PVC-C DN15-DN50 consisting of: screen (3), screen support ring (2) and circlip (6), without o-ring. PVC-U DN65-DN80: screen (3) and screen support ring (2), without o-ring. PP-H DN15-DN50: screen cage (3), circlip (6), screen perforation (12) and screen cage bracket incl. o-ring (13).

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PP-H EPDM Code	PP-H FKM Code	PVC-C Code
20	½	15	161 483 126	167 305 280	167 305 290	163 305 330
25	¾	20	161 483 127	167 305 281	167 305 291	163 305 331
32	1	25	161 483 128	167 305 282	167 305 292	163 305 332
40	1 ¼	32	161 483 129	167 305 283	167 305 293	163 305 333
50	1 ½	40	161 483 130	167 305 284	167 305 294	163 305 334
63	2	50	161 483 131	167 305 285	167 305 295	163 305 335
75	2 ½	65	161 483 132			
90	3	80	161 483 133			



Screen perforation (7-11)

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80



d (mm)	PVC-U 0.5mm (7) Code	PVC-U 0.8mm (8) Code	PVC-U 1.4mm (9) Code	PVC-U 2.2mm (10) Code	PP-H 0.5mm (12) Code	stainless steel 0.5mm AISI 316 (11) Code
20	161 305 339	161 305 338	161 305 337	161 305 336	167 305 030	161 486 100
25	161 305 389	161 305 388	161 305 387	161 305 386	167 305 031	161 486 101
32	161 305 439	161 305 438	161 305 437	161 305 436	167 305 032	161 486 102
40	161 305 489	161 305 488	161 305 487	161 305 486	167 305 033	161 486 103
50	161 305 539	161 305 538	161 305 537	161 305 536	167 305 034	161 486 104
63	161 305 589	161 305 588	161 305 587	161 305 586	167 305 035	161 486 105
75	161 305 639	161 305 638	161 305 637	161 305 636		161 486 106
90	161 305 689	161 305 688	161 305 687	161 305 686		161 486 107



Screen cage bracket (13)

Model:

- Only available for PP-H version
- With o-ring (5)

d (mm)	Size (inch)	DN (mm)	PP-H EPDM Code	PP-H FKM Code
20	½	15	167 305 260	167 305 270
25	¾	20	167 305 261	167 305 271
32	1	25	167 305 262	167 305 272
40	1 ¼	32	167 305 263	167 305 273
50	1 ½	40	167 305 264	167 305 274
63	2	50	167 305 265	167 305 275



Screen cage (3)

Model:

- Screen cage in PVC-U, PVC-C and PP-H

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PVC-C Code	PP-H Code
20	½	15	161 305 303	163 481 102	167 305 020
25	¾	20	161 305 353	163 481 103	167 305 021
32	1	25	161 305 403	163 481 104	167 305 022
40	1 ¼	32	161 305 453	163 481 105	167 305 023
50	1 ½	40	161 305 503	163 481 106	167 305 024
63	2	50	161 305 553	163 481 107	167 305 025
75	2 ½	65	161 305 603		
90	3	80	161 305 653		



Circlip (6 + 7)

Description	d (mm)	Size (inch)	DN (mm)	PVC-U Code
	16	¾	10	161 482 076
PP-H	20	½	15	161 482 017
PP-H	25	¾	20	161 482 018
PP-H	32	1	25	161 482 019
PP-H	40	1 ¼	32	161 482 020
PP-H	50	1 ½	40	161 482 021
PP-H	63	2	50	161 482 022



Plug (4b)

Model:

- Only for PVC-U DN65-DN80

d (mm)	Size (inch)	DN (mm)	PVC-U Code
75	2 ½	65	161 305 604
90	3	80	161 305 654



Body seal (5)

Model:

- Body seal vor PVC-U and PP-H

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
20	½	15	748 410 006	749 410 006
25	¾	20	748 410 001	749 410 001
32	1	25	748 410 007	749 410 007
40	1 ¼	32	748 410 002	749 410 002
50	1 ½	40	748 410 003	749 410 003
63	2	50	748 410 012	749 410 012
75	2 ½	65	748 410 013	749 410 013
90	3	80	748 410 014	749 410 014



Valve nut (4a/15)

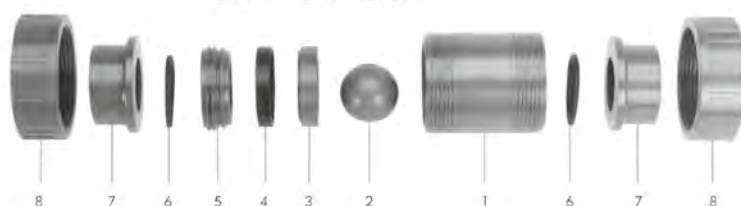
Model:

- Union nut PVC-U DN15-DN50, PP-H

d (mm)	Size (inch)	DN (mm)	PVC-U (4a) Code	PVC-C (4a) Code	ABS (4a) Code	PP-H (4a) Code	PP-H (15) Code
20	¾	15	161 300 308	163 481 084	169 480 609	167 305 060	167 305 070
25	¾	20	161 300 358	163 481 085	169 480 610	167 305 061	167 305 071
32	1	25	161 300 408	163 481 086	169 480 611	167 305 062	167 305 072
40	1 ¼	32	161 300 458	163 481 087	169 480 612	167 305 063	167 305 073
50	1 ½	40	161 300 508	163 481 088	169 480 613	167 305 064	167 305 074
63	2	50	161 300 558	163 481 089	169 480 614	167 305 065	167 305 075

Spare parts ball check valves type 360

DN 10-50



DN 80



Central part

Model:

- Central part consisting of: body (1), ball (2), support ring (3), sealing ring (4) and union bush (5)

d (mm)	Size (inch)	DN (mm)
16	¾	10
20	¾	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
16	161 483 851	161 483 861	163 480 645	163 480 655	169 480 250	167 481 125
20	161 483 852	161 483 862	163 480 646	163 480 656	169 480 251	167 481 126
25	161 483 853	161 483 863	163 480 647	163 480 657	169 480 252	167 481 127
32	161 483 854	161 483 864	163 480 648	163 480 658	169 480 253	167 481 128
40	161 483 855	161 483 865	163 480 649	163 480 659	169 480 254	167 481 129
50	161 483 856	161 483 866	163 480 650	163 480 660	169 480 255	167 481 130
63	161 483 857	161 483 867	163 480 651	163 480 661	169 480 256	167 481 131

d (mm)	PP-H FKM Code
16	167 481 135
20	167 481 136
25	167 481 137
32	167 481 138
40	167 481 139
50	167 481 140
63	167 481 141

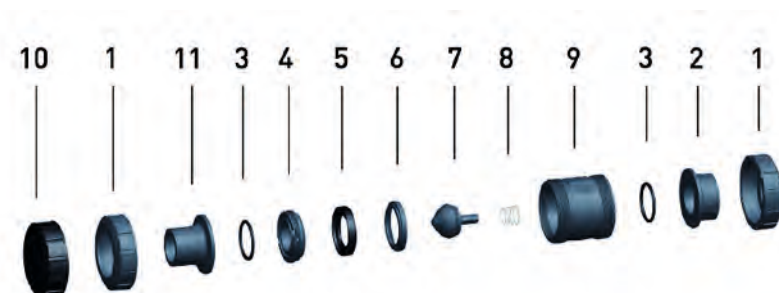
Ball (2)

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PP-H with talc density 1.24 Code	PP-H 100% Code	PVDF Code
16	¾	10	161 330 304	167 481 165	167 480 024	175 480 153
20	½	15	161 330 304	167 481 165	167 480 024	175 480 153
25	¾	20	161 330 354	167 481 166	167 480 025	175 480 154
32	1	25	161 330 404	167 481 167	167 480 026	175 480 155
40	1 ¼	32	161 330 454	167 481 168	167 480 027	175 480 156
50	1 ½	40	161 330 504	167 481 169	167 480 028	175 480 157
63	2	50	161 330 554	167 481 170	167 480 029	175 480 158
90	3	80	161 330 654			

Seal set (4, 6)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	¾	10	161 482 910	161 482 920
20	½	15	161 482 910	161 482 920
25	¾	20	161 482 911	161 482 921
32	1	25	161 482 912	161 482 922
40	1 ¼	32	161 482 913	161 482 923
50	1 ½	40	161 482 914	161 482 924
63	2	50	161 482 915	161 482 925

Spare parts ventilating- and bleed valve type 591/595





Central part with spring for Bleeding valve type 595

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), floater (7), spring Ni-monic 90 Halar coated (8), profile seal ring (5) and face seal (3)

d	Size	DN
(mm)	(inch)	(mm)
16	¾	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80
110	4	100

d	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
(mm)						
16	161 485 281	161 485 291	163 485 281	163 485 291	169 485 281	167 485 281
20	161 485 281	161 485 291	163 485 281	163 485 291	169 485 281	167 485 281
25	161 485 282	161 485 292	163 485 282	163 485 292	169 485 282	167 485 282
32	161 485 283	161 485 293	163 485 283	163 485 293	169 485 283	167 485 283
40	161 485 284	161 485 294	163 485 284	163 485 294	169 485 284	167 485 284
50	161 485 285	161 485 295	163 485 285	163 485 295	169 485 285	167 485 285
63	161 485 286	161 485 296	163 485 286	163 485 296	169 485 286	167 485 286
75	161 485 287	161 485 297	163 485 287	163 485 297	169 485 287	167 485 287
90	161 485 288	161 485 298	163 485 288	163 485 298	169 485 288	167 485 288
110	161 485 289	161 485 299	163 485 289	163 485 299	169 485 289	167 485 289

d	PP-H FKM Code	PVDF FKM Code
(mm)		
16	167 485 291	175 485 291
20	167 485 291	175 485 291
25	167 485 292	175 485 292
32	167 485 293	175 485 293
40	167 485 294	175 485 294
50	167 485 295	175 485 295
63	167 485 296	175 485 296
75	167 485 297	175 485 297
90	167 485 298	175 485 298
110	167 485 299	175 485 299



Central part without spring for Ventilating and Bleed valve 591

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), floater PP-H/PVDF (7), profile seal ring (5) and face seal (3)

d	Size	DN
(mm)	(inch)	(mm)
16	¾	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40

d	Size	DN
(mm)	(inch)	(mm)
63	2	50
75	2 ½	65
90	3	80
110	4	100

d	PVC-U	PVC-U FKM	PVC-C	PVC-C FKM	ABS EPDM	PP-H EPDM
(mm)	EPDM	Code	EPDM	Code	Code	Code
	Code		Code			
16	161 485 261	161 485 271	163 485 261	163 485 271	169 485 261	167 485 261
20	161 485 261	161 485 271	163 485 261	163 485 271	169 485 261	167 485 261
25	161 485 262	161 485 272	163 485 262	163 485 272	169 485 262	167 485 262
32	161 485 263	161 485 273	163 485 263	163 485 273	169 485 263	167 485 263
40	161 485 264	161 485 274	163 485 264	163 485 274	169 485 264	167 485 264
50	161 485 265	161 485 275	163 485 265	163 485 275	169 485 265	167 485 265
63	161 485 266	161 485 276	163 485 266	163 485 276	169 485 266	167 485 266
75	161 485 267	161 485 277	163 485 267	163 485 277	169 485 267	167 485 267
90	161 485 268	161 485 278	163 485 268	163 485 278	169 485 268	167 485 268
110	161 485 269	161 485 279	163 485 269	163 485 279	169 485 269	167 485 269

d	PP-H FKM	PVDF FKM
(mm)	Code	Code
16	167 485 271	175 485 271
20	167 485 271	175 485 271
25	167 485 272	175 485 272
32	167 485 273	175 485 273
40	167 485 274	175 485 274
50	167 485 275	175 485 275
63	167 485 276	175 485 276
75	167 485 277	175 485 277
90	167 485 278	175 485 278
110	167 485 279	175 485 279

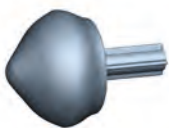


Cone (7)

Model:

- For type 595

d	Size	DN	PVC-U	PVC-C	ABS	PP-H	PVDF
(mm)	(inch)	(mm)	Code	Code	Code	Code	Code
16	¾	10	161 491 151	163 482 151	169 482 151	167 485 151	175 484 151
25	¾	20	161 491 152	163 482 152	169 482 152	167 485 152	175 484 152
32	1	25	161 491 153	163 482 153	169 482 153	167 485 153	175 484 153
40	1 ¼	32	161 491 154	163 482 154	169 482 154	167 485 154	175 484 154
50	1 ½	40	161 491 155	163 482 155	169 482 155	167 485 155	175 484 155
63	2	50	161 491 156	163 482 156	169 482 156	167 485 156	175 484 156
75	2 ½	65	161 491 157	163 482 157	169 482 157	167 485 157	175 484 157
90	3	80	161 491 158	163 482 158	169 482 158	167 485 158	175 484 158
110	4	100	161 491 159	163 482 159	169 482 159	167 485 159	175 484 159



Floater (7)

Model:

- For type 591

d	Size	DN	PP-H	PVDF
(mm)	(inch)	(mm)	Code	Code
16	¾	10	167 485 151	175 484 161
20	½	15	167 485 151	175 484 161
25	¾	20	167 485 152	175 484 162
32	1	25	167 485 153	175 484 163

d (mm)	Size (inch)	DN (mm)	PP-H Code	PVDF Code
40	1 ¼	32	167 485 154	175 484 164
50	1 ½	40	167 485 155	175 484 165
63	2	50	167 485 156	175 484 166
75	2 ½	65	167 485 157	175 484 167
90	3	80	167 485 158	175 484 168
110	4	100	167 485 159	175 484 169



Protective cap (10)

Model:

- Protects the piping system from dirt particles out of the ambient air. Can also be used as tool for opening and closing the valve union bushing.

d (mm)	Size (inch)	DN (mm)	PP-GF Code
16	¾	10	167 485 361
20	½	15	167 485 361
25	¾	20	167 485 362
32	1	25	167 485 363
40	1 ¼	32	167 485 364
50	1 ½	40	167 485 365
63	2	50	167 485 366
75	2 ½	65	167 485 367
90	3	80	167 485 368
110	4	100	167 485 369



Seal set

Model:

- Seal set consisting of: profile seal ring (5) and face seal (3).

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	¾	10	161 485 241	161 485 251
20	½	15	161 485 241	161 485 251
25	¾	20	161 485 242	161 485 252
32	1	25	161 485 243	161 485 253
40	1 ¼	32	161 485 244	161 485 254
50	1 ½	40	161 485 245	161 485 255
63	2	50	161 485 246	161 485 256
75	2 ½	65	161 485 247	161 485 257
90	3	80	161 485 248	161 485 258
110	4	100	161 485 249	161 485 259



Handle for dismantling

d (mm)	Size (inch)	DN (mm)	red Code	black Code
16	¾	10	167 484 088	167 484 076
20	½	15	167 484 088	167 484 076
25	¾	20	167 484 089	167 484 077
32	1	25	167 484 090	167 484 078
40	1 ¼	32	167 484 091	167 484 079
50	1 ½	40	167 484 092	167 484 080

d (mm)	Size (inch)	DN (mm)	red Code	black Code
63	2	50	167 484 093	167 484 081
75	2 ½	65	167 484 094	167 484 082
90	3	80	167 484 095	167 484 083
110	4	100	167 484 096	167 484 084

Spare parts angle seat valve type 303/304



Body (1)

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PVC-U transparent ASTM Code
16	¾	10	161 480 699	
20	½	15	161 480 700	192 480 001
25	¾	20	161 480 701	192 480 002
32	1	25	161 300 401	192 301 401
40	1 ¼	32	161 300 451	192 301 451
50	1 ½	40	161 300 501	192 301 501
63	2	50	161 300 551	192 301 551
75	2 ½	65	161 300 601	
90	3	80	161 300 651	192 301 651



Closure plug (5)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	¾	10	161 480 648
20	½	15	161 480 649
25	¾	20	161 480 650
32	1	25	161 480 651
40	1 ¼	32	161 480 652
50	1 ½	40	161 480 653
63	2	50	161 480 654
75	2 ½	65	161 490 412
90	3	80	161 490 413



Plug

Model:

- DN65-DN80 (6)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
75	2 ½	65	161 305 604
90	3	80	161 305 654



Flat gasket (2)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	¾	10	161 480 664	161 480 673
20	½	15	161 480 665	161 480 674
25	¾	20	161 480 666	161 480 675
32	1	25	161 480 667	161 480 676
40	1 ¼	32	161 480 668	161 480 677
50	1 ½	40	161 480 669	161 480 678
63	2	50	161 480 670	161 480 679
75	2 ½	65	161 480 671	161 480 680
90	3	80	161 480 672	161 480 681



Union nut

Model:

- DN10-DN50 (6)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	¾	10	161 300 258
20	½	15	161 300 308
25	¾	20	161 300 358
32	1	25	161 300 408
40	1 ¼	32	161 300 458
50	1 ½	40	161 300 508
63	2	50	161 300 558



O-ring (4)

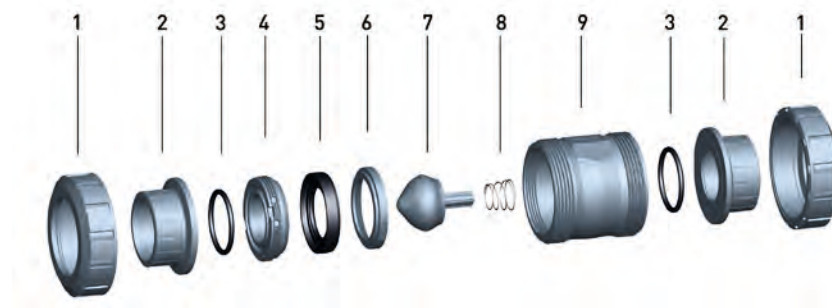
d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	748 410 059	749 410 059
20	½	15	748 410 106	749 410 106
25	¾	20	748 410 001	749 410 001
32	1	25	748 410 007	749 410 007
40	1 ¼	32	748 410 002	749 410 002
50	1 ½	40	748 410 102	749 410 102
63	2	50	748 410 101	749 410 101
75	2 ½	65	748 410 119	749 410 119
90	3	80	748 410 014	749 410 014



Piston (3)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	⅜	10	161 480 682
20	½	15	161 480 683
25	¾	20	161 480 684
32	1	25	161 480 685
40	1 ¼	32	161 480 686
50	1 ½	40	161 480 687
63	2	50	161 480 688
75	2 ½	65	161 480 689
90	3	80	161 480 690

Spare parts cone check valve type 561/562



Central part without spring

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), profile seal (5) and face seal (3)

d (mm)	Size (inch)	DN (mm)
16	⅜	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40

d (mm)	Size (inch)	DN (mm)
63	2	50
75	2 ½	65
90	3	80
110	4	100

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
16	161 485 201	161 485 211	163 485 201	163 485 211	169 485 201	167 485 201
20	161 485 201	161 485 211	163 485 201	163 485 211	169 485 201	167 485 201
25	161 485 202	161 485 212	163 485 202	163 485 212	169 485 202	167 485 202
32	161 485 203	161 485 213	163 485 203	163 485 213	169 485 203	167 485 203
40	161 485 204	161 485 214	163 485 204	163 485 214	169 485 204	167 485 204
50	161 485 205	161 485 215	163 485 205	163 485 215	169 485 205	167 485 205
63	161 485 206	161 485 216	163 485 206	163 485 216	169 485 206	167 485 206
75	161 485 207	161 485 217	163 485 207	163 485 217	169 485 207	167 485 207
90	161 485 208	161 485 218	163 485 208	163 485 218	169 485 208	167 485 208
110	161 485 209	161 485 219	163 485 209	163 485 219	169 485 209	167 485 209

d (mm)	PP-H FKM Code	PVDF FKM Code
16	167 485 211	175 485 211
20	167 485 211	175 485 211
25	167 485 212	175 485 212
32	167 485 213	175 485 213
40	167 485 214	175 485 214
50	167 485 215	175 485 215
63	167 485 216	175 485 216
75	167 485 217	175 485 217
90	167 485 218	175 485 218
110	167 485 219	175 485 219



Handle for dismantling

d (mm)	Size (inch)	DN (mm)	red Code	black Code
16	¾	10	167 484 088	167 484 076
20	½	15	167 484 088	167 484 076
25	¾	20	167 484 089	167 484 077
32	1	25	167 484 090	167 484 078
40	1 ¼	32	167 484 091	167 484 079
50	1 ½	40	167 484 092	167 484 080
63	2	50	167 484 093	167 484 081
75	2 ½	65	167 484 094	167 484 082
90	3	80	167 484 095	167 484 083
110	4	100	167 484 096	167 484 084



Face seal (3)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	¾	10	748 410 059	749 410 059
20	½	15	748 410 059	749 410 059
25	¾	20	748 410 106	749 410 106
32	1	25	748 410 151	749 410 151
40	1 ¼	32	748 410 062	749 410 062
50	1 ½	40	748 410 003	749 410 003

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
63	2	50	748 410 231	749 410 231
75	2 ½	65	748 410 119	749 410 119
90	3	80	748 410 023	749 410 023
110	4	100	748 410 254	749 410 254

Seal set

Model:

- Seal set consisting of: profile seal ring (5) and face seal (3)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	¾	10	161 485 241	161 485 251
20	½	15	161 485 241	161 485 251
25	¾	20	161 485 242	161 485 252
32	1	25	161 485 243	161 485 253
40	1 ¼	32	161 485 244	161 485 254
50	1 ½	40	161 485 245	161 485 255
63	2	50	161 485 246	161 485 256
75	2 ½	65	161 485 247	161 485 257
90	3	80	161 485 248	161 485 258
110	4	100	161 485 249	161 485 259

Profile seal ring (5)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	¾	10	748 436 001	749 436 001
20	½	15	748 436 001	749 436 001
25	¾	20	748 436 002	749 436 002
32	1	25	748 436 003	749 436 003
40	1 ¼	32	748 436 004	749 436 004
50	1 ½	40	748 436 005	749 436 005
63	2	50	748 436 006	749 436 006
75	2 ½	65	748 436 007	749 436 007
90	3	80	748 436 008	749 436 008
110	4	100	748 436 009	749 436 009

Cone (7)

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PVC-C Code	ABS Code	PP-Talkum 20% Code	PVDF Code
16	¾	10	161 491 151	163 482 151	169 482 151	167 485 351	175 484 151
20	½	15	161 491 151	163 482 151	169 482 151	167 485 351	175 484 151
25	¾	20	161 491 152	163 482 152	169 482 152	167 485 352	175 484 152
32	1	25	161 491 153	163 482 153	169 482 153	167 485 353	175 484 153
40	1 ¼	32	161 491 154	163 482 154	169 482 154	167 485 354	175 484 154
50	1 ½	40	161 491 155	163 482 155	169 482 155	167 485 355	175 484 155
63	2	50	161 491 156	163 482 156	169 482 156	167 485 356	175 484 156
75	2 ½	65	161 491 157	163 482 157	169 482 157	167 485 357	175 484 157
90	3	80	161 491 158	163 482 158	169 482 158	167 485 358	175 484 158
110	4	100	161 491 159	163 482 159	169 482 159	167 485 359	175 484 159



Spring (8)

Model:

- Material: NIMONIC 90, code: 2.4632
- Material: Stainless steel, code: 1.4310, HALAR® coated
- Material: Stainless steel, code: 1.4310

d (mm)	Size (inch)	DN (mm)	Stainless steel Code	Stainless steel HALAR coated Code	NIMONIC 90 Code
16 - 25	¾ - 1	10 - 20	161 485 132	161 485 142	161 485 152
32	1	25	161 485 133	161 485 143	161 485 153
40	1 ¼	32	161 485 134	161 485 144	161 485 154
50	1 ½	40	161 485 135	161 485 145	161 485 155
63	2	50	161 485 136	161 485 146	161 485 156
75	2 ½	65	161 485 137	161 485 147	161 485 157
90	3	80	161 485 138	161 485 148	161 485 158
110	4	100	161 485 139	161 485 149	161 485 159



Central part with spring

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), spring V2A (8), profile seal ring (5) and face seal (3)

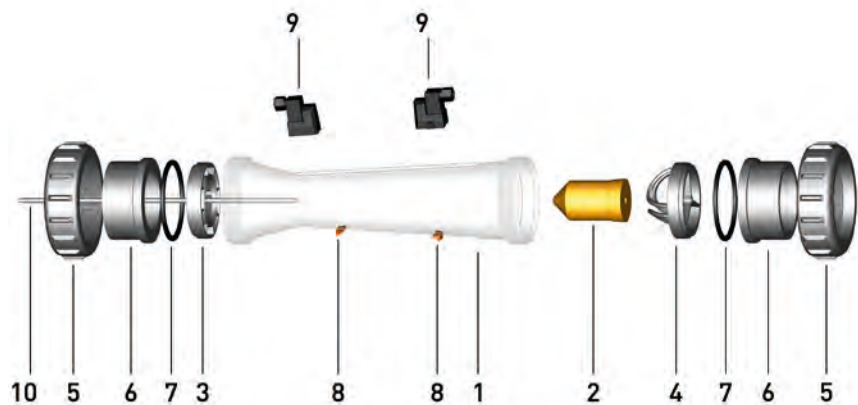
d (mm)	Size (inch)	DN (mm)
16	¾	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80
110	4	100

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
16	161 485 221	161 485 231	163 485 221	163 485 231	169 485 221	167 485 231
20	161 485 221	161 485 231	163 485 221	163 485 231	169 485 221	167 485 231
25	161 485 222	161 485 232	163 485 222	163 485 232	169 485 222	167 485 232
32	161 485 223	161 485 233	163 485 223	163 485 233	169 485 223	167 485 233
40	161 485 224	161 485 234	163 485 224	163 485 234	169 485 224	167 485 234
50	161 485 225	161 485 235	163 485 225	163 485 235	169 485 225	167 485 235
63	161 485 226	161 485 236	163 485 226	163 485 236	169 485 226	167 485 236
75	161 485 227	161 485 237	163 485 227	163 485 237	169 485 227	167 485 237
90	161 485 228	161 485 238	163 485 228	163 485 238	169 485 228	167 485 238
110	161 485 229	161 485 239	163 485 229	163 485 239	169 485 229	167 485 239

d (mm)	PP-H FKM Code	PVDF FKM Code
16	167 485 241	175 485 231
20	167 485 241	175 485 231
25	167 485 242	175 485 232
32	167 485 243	175 485 233
40	167 485 244	175 485 234
50	167 485 245	175 485 235

d (mm)	PP-H FKM Code	PVDF FKM Code
63	167 485 246	175 485 236
75	167 485 247	175 485 237
90	167 485 248	175 485 238
110	167 485 249	175 485 239

Variable area flow meter type 350



Taper tube with water scale (1)

d (mm)	Size (inch)	DN (mm)	Scale range (l/min)	PVC-U transparent Code	Polyamid Code	Polysulfon Code
32	1	25	50 - 500	198 350 055	198 350 070	198 350 085
32	1	25	100 - 1000	198 350 056	198 350 071	198 350 086
40	1 ¼	32	150 - 1500	198 350 057	198 350 072	198 350 087
40	1 ¼	32	250 - 2500	198 350 058	198 350 073	198 350 088
50	1 ½	40	200 - 2000	198 350 059	198 350 074	198 350 089
50	1 ½	40	300 - 3000	198 350 060	198 350 075	198 350 090
50	1 ½	40	600 - 6000	198 350 061	198 350 076	198 350 091
63	2	50	600 - 6000	198 350 062	198 350 077	198 350 092
63	2	50	1000 - 10000	198 350 063	198 350 078	198 350 093
63	2	50	1500 - 15000	198 350 064	198 350 079	198 350 094
75	2 ½	65	2000 - 20000	198 350 065	198 350 080	198 350 095
75	2 ½	65	3000 - 30000	198 350 066	198 350 081	198 350 096
75	2 ½	65	8000 - 60000	198 350 067	198 350 082	198 350 097

Taper tube without scale (1)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	PVC-U transparent Code	Polyamid Code	Polysulfon Code
32	1	25	50 - 500	198 350 255	198 350 270	198 350 285
32	1	25	100 - 1000	198 350 256	198 350 271	198 350 286
40	1 ¼	32	150 - 1500	198 350 257	198 350 272	198 350 287
40	1 ¼	32	250 - 2500	198 350 258	198 350 273	198 350 288
50	1 ½	40	200 - 2000	198 350 259	198 350 274	198 350 289
50	1 ½	40	300 - 3000	198 350 260	198 350 275	198 350 290
50	1 ½	40	600 - 6000	198 350 261	198 350 276	198 350 291
63	2	50	600 - 6000	198 350 262	198 350 277	198 350 292
63	2	50	1000 - 10000	198 350 263	198 350 278	198 350 293

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	PVC-U transparent Code	Polyamid Code	Polysulfon Code
63	2	50	1500 - 15000	198 350 264	198 350 279	198 350 294
75	2 ½	65	2000 - 20000	198 350 265	198 350 280	198 350 295
75	2 ½	65	3000 - 30000	198 350 266	198 350 281	198 350 296
75	2 ½	65	8000 - 60000	198 350 267	198 350 282	198 350 297

Insert PVDF (3,4)



d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	top (4) Code	bottom (3) Code
32	1	25	50 - 500	198 335 970	198 335 977
32	1	25	100 - 1000	198 335 970	198 335 977
40	1 ¼	32	150 - 1500	198 335 971	198 335 978
40	1 ¼	32	250 - 2500	198 335 971	198 335 978
50	1 ½	40	200 - 2000	198 335 972	198 335 979
50	1 ½	40	300 - 3000	198 335 972	198 335 979
50	1 ½	40	600 - 6000	198 335 972	198 335 979
63	2	50	600 - 6000	198 335 973	198 335 980
63	2	50	1000 - 10000	198 335 973	198 335 980
63	2	50	1500 - 15000	198 335 974	
75	2 ½	65	2000 - 20000	198 335 975	
75	2 ½	65	3000 - 30000	198 335 975	
75	2 ½	65	8000 - 60000	198 335 975	

Guiding rod (10)



Model:

- Only for DN50 (1'500 - 15'000 l/h) and DN65 (all scale ranges)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	PVDF Code
63	2	50	1500 - 15000	198 350 981
75	2 ½	65	2000 - 20000	198 350 981
75	2 ½	65	3000 - 30000	198 350 981
75	2 ½	65	8000 - 60000	198 350 981

Insert guiding rod PVDF (for 10)



Model:

- Only for DN50 (1'500 - 15'000 l/h) and DN65 (all scale ranges)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	for PEEK and stainless steel Code	for PVDF/ SS Code
63	2	50	1500 - 15000		198 335 953
75	2 ½	65	2000 - 20000	198 335 987	198 335 954
75	2 ½	65	3000 - 30000	198 335 987	198 335 954
75	2 ½	65	8000 - 60000	198 335 987	198 335 954



O-rings (7)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
32	1	25	748 410 008	749 410 008
40	1 ¼	32	748 410 009	749 410 009
50	1 ½	40	748 410 010	749 410 010
63	2	50	748 410 011	749 410 011
75	2 ½	65	748 410 014	749 410 014



Union nut PVC-U

*also for diaphragm valves type 514/DIASTAR, pressure regulating valves type 582/586 and variable area flow

**just for variable area flow meter

***for adaptor unions PVC-U / malleable iron only

d (mm)	PN (bar)	PVC-U Code	Weight (kg)	Tr	G (inch)	D (mm)	L (mm)
10 - 12	16	721 890 004	0.009		5/8	19	19
16	16	721 890 005	0.011		¾	22	21
*	20	721 890 006	0.020		1	28	23
*	25	721 890 007	0.020		1 ¼	36	24
*	32	721 890 008	0.030		1 ½	41	26
*	40	721 890 009	0.049		2	53	29
*	50	721 890 010	0.087		2 ¼	59	34
*	63	721 890 011	0.138		2 ¾	74	38
	75	721 890 012	0.256	Tr 108x5		92	40
	90	721 890 013	0.490	Tr 128x5		110	43
***	90	721 890 023	0.355	Tr 128x5		105	43
	110	721 890 014	0.574	Tr 154x6		133	48
**	75	198 806 429	0.200				



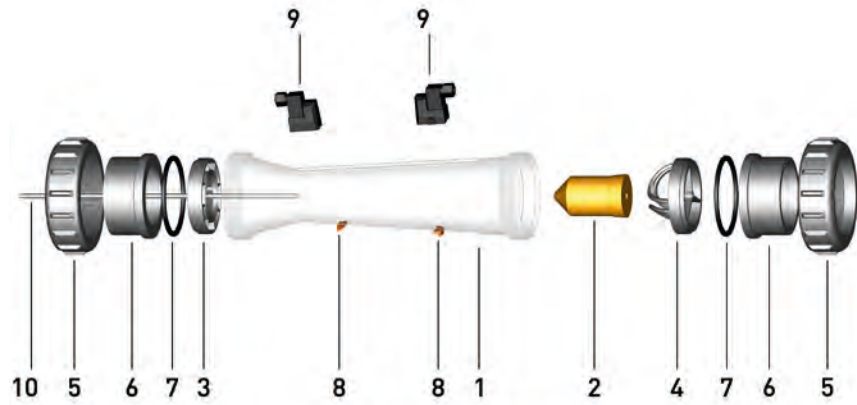
Exchange kit

Model:

- Exchange kit consisting of: guiding rod (PVDF/V4A), insert guiding rod and insert bottom
- Only for DN50 (1'500 - 15'000 l/h) and DN65 (all scale ranges)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	Code
63	2	50	1500 - 15000	198 350 895
75	2 ½	65	2000 - 20000	198 350 896
75	2 ½	65	3000 - 30000	198 350 896
75	2 ½	65	8000 - 80000	198 350 896

Variable area flow meter type 335



Taper tube with water scale (1)

- PVC-U transparent

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	PVC-U transparent Code	Polyamid Code	Polysulfon Code
32	1	25	50 - 500	198 335 055	198 335 070	198 335 085
32	1	25	100 - 1000	198 335 056	198 335 071	198 335 086
40	1 ¼	32	150 - 1500	198 335 057	198 335 072	198 335 087
40	1 ¼	32	250 - 2500	198 335 058	198 335 073	198 335 088
50	1 ½	40	200 - 2000	198 335 059	198 335 074	198 335 089
50	1 ½	40	300 - 3000	198 335 060	198 335 075	198 335 090
50	1 ½	40	600 - 6000	198 335 061	198 335 076	198 335 091
63	2	50	600 - 6000	198 335 062	198 335 077	198 335 092
63	2	50	1000 - 10000	198 335 063	198 335 078	198 335 093
63	2	50	1500 - 15000	198 335 064	198 335 079	198 335 094
75	2 ½	65	2000 - 20000	198 335 065	198 335 080	198 335 095
75	2 ½	65	3000 - 30000	198 335 066	198 335 081	198 335 096
75	2 ½	65	8000 - 60000	198 335 067	198 335 082	198 335 097

Taper tube without scale (1)

Scale range (l/h)	d (mm)	Size (inch)	DN (mm)	PVC-U transparent Code	Polyamid Code	Polysulfon Code
50 - 500	32	1	25	198 335 255	198 335 270	198 335 285
100 - 1000	32	1	25	198 335 256	198 335 271	198 335 286
150 - 1500	40	1 ¼	32	198 335 257	198 335 272	198 335 287
250 - 2500	40	1 ¼	32	198 335 258	198 335 273	198 335 288
200 - 2000	50	1 ½	40	198 335 259	198 335 274	198 335 289
300 - 3000	50	1 ½	40	198 335 260	198 335 275	198 335 290
600 - 6000	50	1 ½	40	198 335 261	198 335 276	198 335 291
600 - 6000	63	2	50	198 335 262	198 335 277	198 335 292
1000 - 10000	63	2	50	198 335 263	198 335 278	198 335 293
1500 - 15000	63	2	50	198 335 264	198 335 279	198 335 294
2000 - 20000	75	2 ½	65	198 335 265	198 335 280	198 335 295
3000 - 30000	75	2 ½	65	198 335 266	198 335 281	198 335 296
8000 - 60000	75	2 ½	65	198 335 267	198 335 282	198 335 297

Spare part for variable area flow meter SK50-SK73/SK500-SK730



Short version taper tube Polysulfone

- without scale

d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 500	198 801 341
16	10	SK 51 / 510	198 801 342
16	10	SK 52 / 520	198 801 343
20	15	SK 60 / 600	198 801 449
20	15	SK 61 / 610	198 801 450
20	15	SK 62 / 620	198 801 451
32	25	SK 70 / 700	198 801 445
32	25	SK 71 / 710	198 801 338
32	25	SK 72 / 720	198 801 339
32	25	SK 73 / 730	198 801 340



Short version taper tube PVC-U transparent

- without scale

d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 500	198 803 790
16	10	SK 51 / 510	198 803 791
16	10	SK 52 / 520	198 803 792
20	15	SK 60 / 600	198 803 793
20	15	SK 61 / 610	198 803 794
20	15	SK 62 / 620	198 803 795
32	25	SK 70 / 700	198 803 796
32	25	SK 71 / 710	198 803 797
32	25	SK 72 / 720	198 803 798
32	25	SK 73 / 730	198 803 799



Short version float PVDF Without magnet

d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 51 / 52	198 806 219
20	15	SK 60 / 61 / 62	198 806 220
32	25	SK 70 / 71 / 72 / 73	198 806 221

**Short version float PVDF
With magnet bistable**



d (mm)	DN (mm)	Type	Code
16	10	SK 500 / 510 / 520	198 806 222
20	15	SK 600 / 610 / 620	198 806 223
32	25	SK 700 / 710 / 720 / 730	198 806 224

**Short version float PTFE
Without magnet**



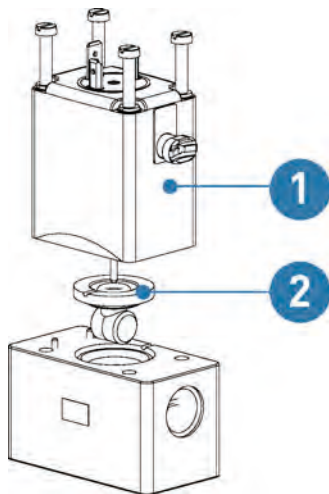
d (mm)	DN (mm)	Type	Code
32	25	SK 73	198 807 166

Short version top insert PVDF



d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 500; 51 / 510; 52 / 520	198 807 188
20	15	SK 60 / 600; 61 / 610; 62 / 620	198 807 187
32	25	SK 70 / 700; 71 / 710; 72 / 720; 73 / 730	198 807 182

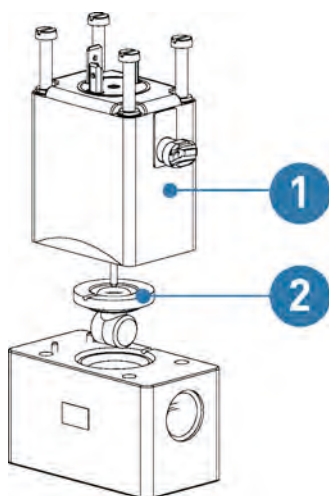
Spare parts solenoid valve type 157



Wear part set (2) For solenoid valve type 157

e.g. diaphragm

EPDM Code	FKM Code
198 808 012	198 808 013



Coil set (1) For solenoid valve type 157

Voltage	Function	EPDM Code	FKM Code
24V DC	A		198 808 006
24V UC	A	198 808 002	
230V AC	A	198 808 004	

Spare parts solenoid valve type 160/161



Wear part set (3) For solenoid valve type 160/161

Model:

- Pre-assembled set with angle flange
- Set already pre-lubricated
- Manual override included

d (mm)	DN (mm)	EPDM Code	FKM Code
16	10	198 808 023	198 808 026
20	15	198 808 024	198 808 027
25	20	198 808 025	198 808 028



Actuator Set (2) For solenoid valve type 160/161

Model:

- Including core and pressure spring

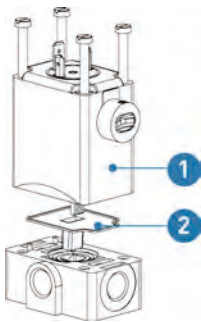
Function	UC Code	50Hz Code
A	198 808 017	198 808 021
B	198 808 018	
E	198 808 019	
F	198 808 020	198 808 022



Coil set (1) For solenoid valve type 160/161

24V UC Code	230 V UC Code	230 V/ 50Hz Code
198 808 014	198 808 015	198 808 016

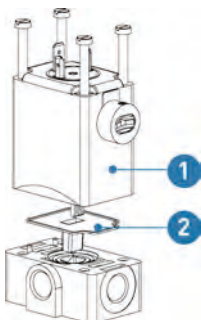
Spare parts solenoid valve type 166



Wear part set (2) For solenoid valve type 166

e.g. diaphragm

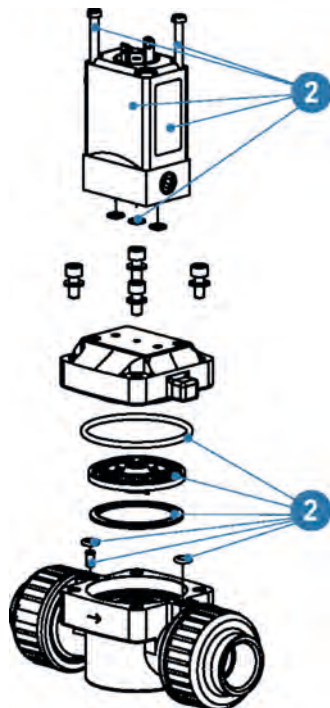
EPDM Code	FKM Code
198 808 053	198 808 054



Coil set (1) For solenoid valve type 166

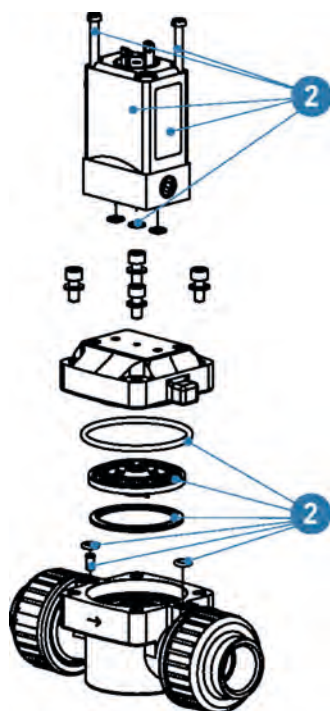
Function	Voltage	FKM Code
C	24V UC	198 808 049

Spare parts solenoid valve type 165



Wear part set (2)
For solenoid valve type 165

d-d (mm)	DN-DN (mm)	EPDM Code	FKM Code
20 - 25	15 - 20	198 808 035	198 808 038
32 - 40	25 - 32	198 808 036	198 808 039
50 - 63	40 - 50	198 808 037	198 808 040



Coil set (1)
For solenoid valve type 165

Voltage	EPDM Code	FKM Code
24V DC	198 808 029	198 808 032
230V AC	198 808 030	198 808 033
110V AC	198 808 031	198 808 034

Pressure regulating valve type 582/586



Cartridge type 582

DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	PP-H EPDM Code	PP-H FKM Code
10-15	161 489 131	161 489 231	163 489 131	163 489 231	167 489 131	167 489 231
20-25	161 489 133	161 489 233	163 489 133	163 489 233	167 489 133	167 489 233
32-50	161 489 136	161 489 236	163 489 136	163 489 236	167 489 136	167 489 236

DN (mm)	PVDF FKM Code	PVDF HP FKM Code
10-15	185 489 131	180 489 131
20-25	185 489 133	180 489 133
32-50	185 489 136	180 489 136



Cartridge type 586

DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	PP-H EPDM Code	PP-H FKM Code
10-15	161 489 161	161 489 261	163 489 161	163 489 261	167 489 161	167 489 261
20-25	161 489 163	161 489 263	163 489 163	163 489 263	167 489 163	167 489 263
32-50	161 489 166	161 489 266	163 489 166	163 489 266	167 489 166	167 489 266

DN (mm)	PVDF FKM Code	PVDF-HP FKM Code
10-15	185 489 161	180 489 161
20-25	185 489 163	180 489 163
32-50	185 489 166	180 489 166

Cover cap

DN (mm)	Type	Code
10-15	582/586	198 806 391
20-25	582/586	198 806 393
32-50	582/586	198 806 396



SYGEF Standard Manometer Adapter **For pressure regulating valves type 582/586**

Model:

- Material: PVDF
- For media separation from pressure gauge to process medium
- PTFE/EPDM Manometer diaphragm
- *EPDM and FKM O-Ring included in Set

DN (mm)	EPDM/FKM Code	FKM white (HP) Code
10-50	198 806 650	198 806 654

Manometer **For pressure regulating valves type 582/586**

Model:

- Display with double scale: 0-4 bar / 0-58 psi, size: ø 40mm
- Display with double scale: 0-10bar / 0-150psi, size: ø 40mm
- Connection G 1/4 center back mount

DN (mm)	Material	EPDM/FKM 0-10bar Code	FKM white (HP) 0-10bar Code	EPDM/FKM 0-4bar Code
10-50	Brass	198 806 651	198 806 655	198 806 963
10-50	Stainless Steel	198 806 652	198 806 656	198 806 962

Manometer plug **For pressure regulating valves type 582/586**

- For maintenance

DN (mm)	Code
10-50	198 806 653

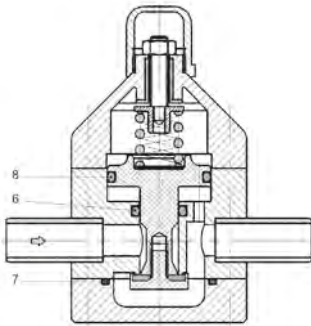
Hook wrench

DN (mm)	Type	Code
10-15	582/586	198 806 451
20-25	582/586	198 806 452
32-50	582/586	198 806 453

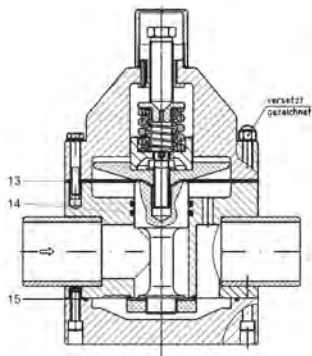
Pressure reducing valve type V182/82

Model:

- Spare part kit contains: diaphragm and o-rings



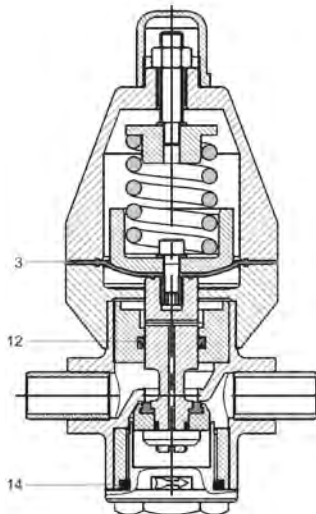
Type	DN-DN (mm)	EPDM Code	FKM Code	PTFE Code
V182	10 - 15	700 254 285	700 254 289	
V182	20 - 25	700 254 286	700 254 290	
V182	32 - 40	700 254 287	700 254 291	
V182	50	700 254 288	700 254 292	
V82	65	700 254 404		700 254 308
V82	80	700 254 405		700 254 309
V82	100	700 254 406		700 254 310



Pressure reducing valve type V782

Model:

- Spare part kit contains: diaphragm and o-rings



Type	DN-DN (mm)	EPDM Code	PTFE Code
V782	10 - 15	700 254 318	700 254 321
V782	20 - 25	700 254 319	700 254 322
V782	32 - 40	700 254 320	700 254 323

Pressure relief valve type V185/85

Model:

- Spare part kit contains: diaphragm

Type	DN-DN (mm)	EPDM Code	PTFE Code
V185	10 - 20	700 254 333	700 254 339
V185	25 - 32	700 254 334	700 254 340
V185	40 - 50	700 254 335	700 254 341
V85	65	700 254 336	700 254 342
V85	80	700 254 337	700 254 343
V85	100	700 254 338	700 254 344

Pressure retaining valve type V186/86

Model:

- Spare part kit contains: diaphragm

Type	DN-DN (mm)	EPDM Code	PTFE Code
V185/186	10 - 20	700 254 333	700 254 339
V185/186	25 - 32	700 254 334	700 254 340
V185/186	40 - 50	700 254 335	700 254 341
V86	65	700 254 376	700 254 379
V86	80	700 254 377	700 254 380
V86	100	700 254 378	700 254 381

Pressure retaining valve type V786

Model:

- Spare part kit contains: diaphragm

Type	DN-DN (mm)	EPDM Code	PTFE Code
V786	10 - 15	700 254 389	700 254 392
V786	20 - 25	700 254 390	700 254 393
V786	32 - 40	700 254 391	700 254 394

Notes

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General Condition of Supply of Georg Fischer Piping Systems Limited, Schaffhausen

1 General

- 1.1 These General Conditions shall apply to all Products supplied by Georg Fischer Piping Systems Limited («Georg Fischer») to the Purchaser.
They shall also apply to all future business even when no express reference is made to them.
- 1.2 Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer.
- 1.3 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.

2 Tenders

- Tenders shall only be binding if they contain a specifically stated period for acceptance.

3 Scope of Delivery

- 3.1 Georg Fischer's product range is subject to change.
- 3.2 The confirmation of order shall govern the scope and execution of the contract.

4 Data and Documents

- 4.1 Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change.
- 4.2 All technical documents shall remain the exclusive property of Georg Fischer and may only be used for the agreed purposes or as Georg Fischer may consent.

5 Confidentiality, Protection of Personal Data

- 5.1 Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing with the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied.
- 5.2 In the context of the contractual relation with the Purchaser personal data may be processed. The Purchaser agrees to the disclosure of said data to third parties such as foreign subcontractors and suppliers etc.

6 Local Laws and Regulations, Export Controls

- 6.1 The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to relevant safety regulations and approval procedures.
- 6.2 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

7 Price

- 7.1 Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms 2010 of the ICC, or latest version) including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and import- licences etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duties etc. connected with the contract.
- 7.2 If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs.

8 Terms of Payment

- 8.1 The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues.
- 8.2 The Purchaser may only withhold or off-set payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser. In particular, payment shall still be made when unessential items are still outstanding provided that the Products already delivered are not rendered unusable as a result.

9 Retention of Title

- 9.1 The Products shall remain the property of Georg Fischer until the Purchaser shall have settled all claims, present and future, which Georg Fischer may have against him.
- 9.2 Should the Purchaser resell Products to which title is reserved, in the ordinary course of business, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables.
- 9.3 To the extent the value of the Products to which title is reserved together with collateral securities exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

10 Delivery

- 10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technical issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch.
- 10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:
- a) if Georg Fischer are not supplied in time with the information necessary for the execution of the contract or if subsequent changes causing delays are made by the Purchaser.
- b) if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which renders Georg Fischer's performance commercially impractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, serious disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads.
Should the effect of force majeure exceed a period of six (6) months, either party may cancel the contract forthwith.
Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting the reform, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date.
- c) if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the agreed securities.
- 10.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one (1) month which equally is not met.
The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of the delayed delivery.
- 10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.
- 10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.
- 10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to a penalty amounting to 10% of the contract price, Georg Fischer's right to prove and claim higher damages remaining reserved.

Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage than the penalty forfeited.

11 Packing

- If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

12 Passing of Risk

- 12.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works (EX WORKS, Incoterms 2010 ICC, or latest version), even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Fischer.
- 12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

13 Carriage and Insurance

- 13.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.
- 13.2 The Purchaser shall be responsible for transport insurance against damage of whatever kind. Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.
- 13.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible.
In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him.
- 13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier. Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six (6) days after receipt of the Products.

14 Inspection, Notification of Defects and Damages

- 14.1 The Products will be subject to normal inspection by Georg Fischer during manufacture. Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.
- 14.2 It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within seven (7) working days after discovery, in any event within the agreed warranty period.
- 14.3 Purchaser shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal.
- 14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage, prior to commencement of remedial work, either itself or by third party experts.

15 Warranty

- 15.1 At the written request of the Purchaser, Georg Fischer undertakes to repair or replace at its discretion, as quickly as possible and free of charge, all Products supplied which demonstrably suffer from faulty design, materials or workmanship, from faulty operating or installation instructions or which become defective or unusable due to faulty advice.
In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com.
Replaced parts shall become property of Georg Fischer, unless Georg Fischer waives such claim.
- 15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.
- 15.3 The Purchaser shall be entitled to rescind the contract or to demand a reduction of the contract price if
- the repair or replacement of the defective Product is impossible
 - the defective Product is not repaired or replaced within a reasonable period
 - Georg Fischer refuses the repair or replacement or if for reasons attributable to Georg Fischer the repair or replacement is delayed.
- 15.4 For Products or essential components manufactured by a third party and supplied by Georg Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said third party.
- 15.5 This warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, overstressing or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.
- 15.6 No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve (12) months from receipt of the Products by the end user or at the latest within eighteen (18) months of the Products being despatched by Georg Fischer.
- 15.7 In case of Products for use in domestic installations or in utilities
- Georg Fischer will assume the costs of dismantling the defective Product and restoring the damaged object up to CHF 1'000'000 per occurrence.
 - warranty or damage claims - contrary to Section 15.6 - are time-barred five (5) years from the date of installation or seven (7) years from the production date, whichever is earlier.

16 Limitation of Liability

The rights and remedies of the customer shall be exclusively governed by these General Conditions of Supply and shall be in lieu of any remedies at law. All further claims for damages, reduction of the purchase price, termination of or rescission of the contract are excluded. In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies. This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit, third party recovery claims and other direct or indirect or consequential damages.
This limitation of liability equally applies to the extent Georg Fischer is liable for acts or omissions of its employees or third parties engaged for the performance of its obligations. It does not apply in case unlawful intent or gross negligence on the part of Georg Fischer's management and in case of Georg Fischer's statutory liability, in particular under applicable product liability laws.

17 Severability

Should any term or clause of these General Conditions in whole or in part be found to be unenforceable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.

18 Place of Performance and Jurisdiction

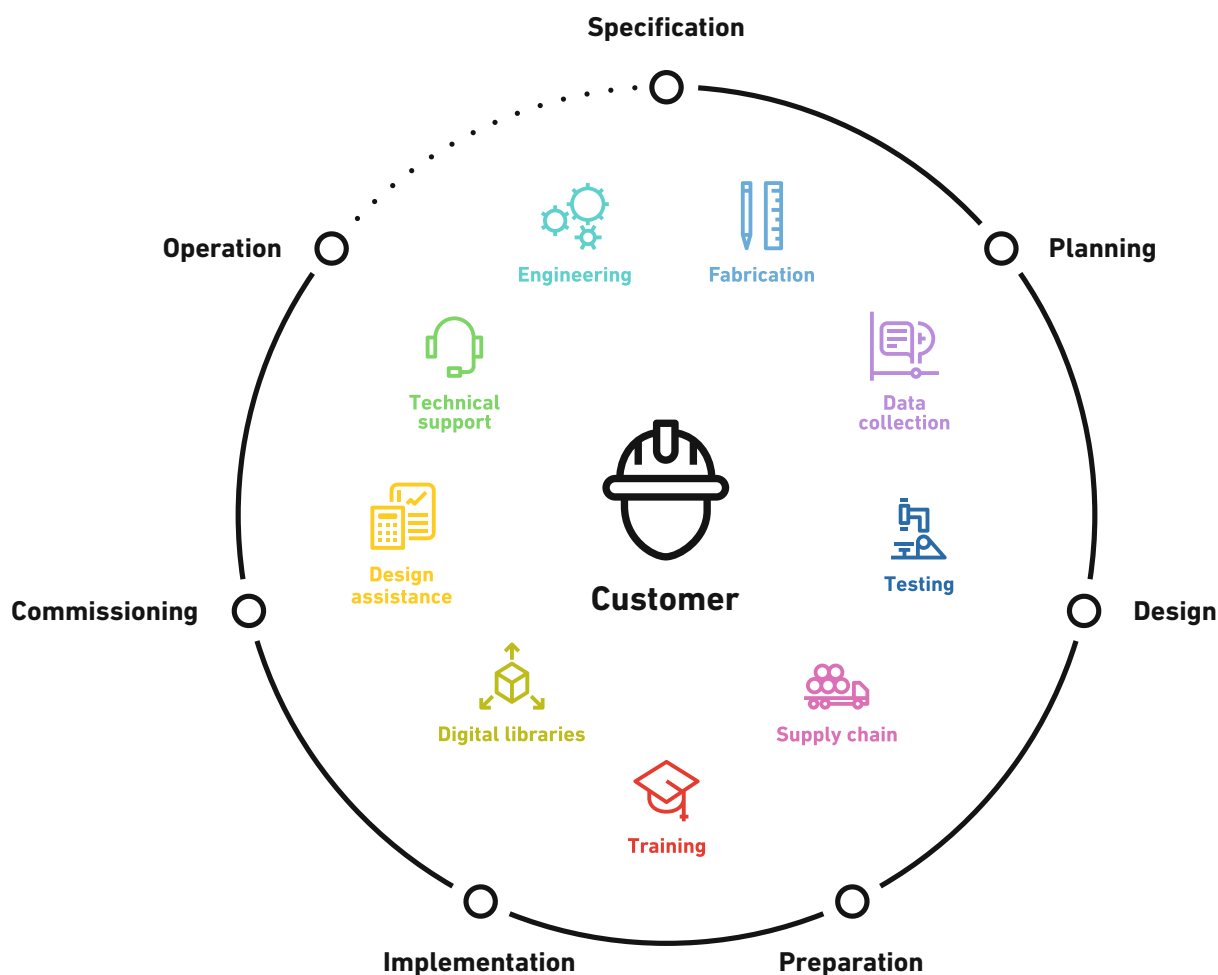
- 18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.
- 18.2 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.
- 18.3 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland.
Georg Fischer however reserves the right to file actions in any court having jurisdiction over controversies arising out of or in connection with the present contract.

List of abbreviations

ANSI	American National Standard	d	Pipe outside diameter
ASTM	American Society for Testing and Materials	DN	Nominal bore
BS	British Standard	PN	Nominal pressure at 20°C, water
DIN	Deutsche Industrie-Normen	kg	Weight in kilograms
ISO	International Standardization Organisation	SP	Standard pack. The figure given indicates the quantity of fittings contained in a standard pack
ABS	Acrylnitril Butadien Styrene		
PVC-U	Polyvinyl Chloride	GP	Gross pack. The figure given indicates the quantity of fittings contained in a gross pack
PVC-C	Polyvinyl Chloride chlorinated	G	Pipe thread, not pressure tight in the thread to ISO 228-1
PP	Polypropylene, heat stabilised	NPT	Taper male thread pressure tight in the thread to ANSI B 1.20.1
PE	Polyethylene	R	Taper male thread, pressure tight in the thread to ISO 7-1/DIN 2999-1
PVDF	Polyvinylidene fluoride	Rc	Taper female thread, pressure tight in the thread to ISO 7-1/DIN 2999-1
EPDM	Ethylene Propylene Rubber	Rp	Parallel female thread, pressure tight in the thread to ISO 7-1/DIN 2999-1
FPM	Fluorine Rubber, e.g. Viton®	Tr	Trapezoid thread
NBR	Nitrile Rubber	SC	Size of hexagon bolts
IIR	Butyl Rubber	s	A/F
CSM	Chlore Sulphonyl Polythene, e.g. Hypalon®	e	Wall thickness
CR	Chloroprene Rubber, e.g. Neoprene®	AL	Number of bolt holes
PTFE	Polytetrafluorethylene, e.g. Teflon®	®	Registered trade-mark
PBTP	Polybutylene terephthalate		
UP-GF	Unsaturated polyester resin glassfibre reinforced		
St	Steel		
Ms	Brass		
Tg	Malleable Iron		

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