



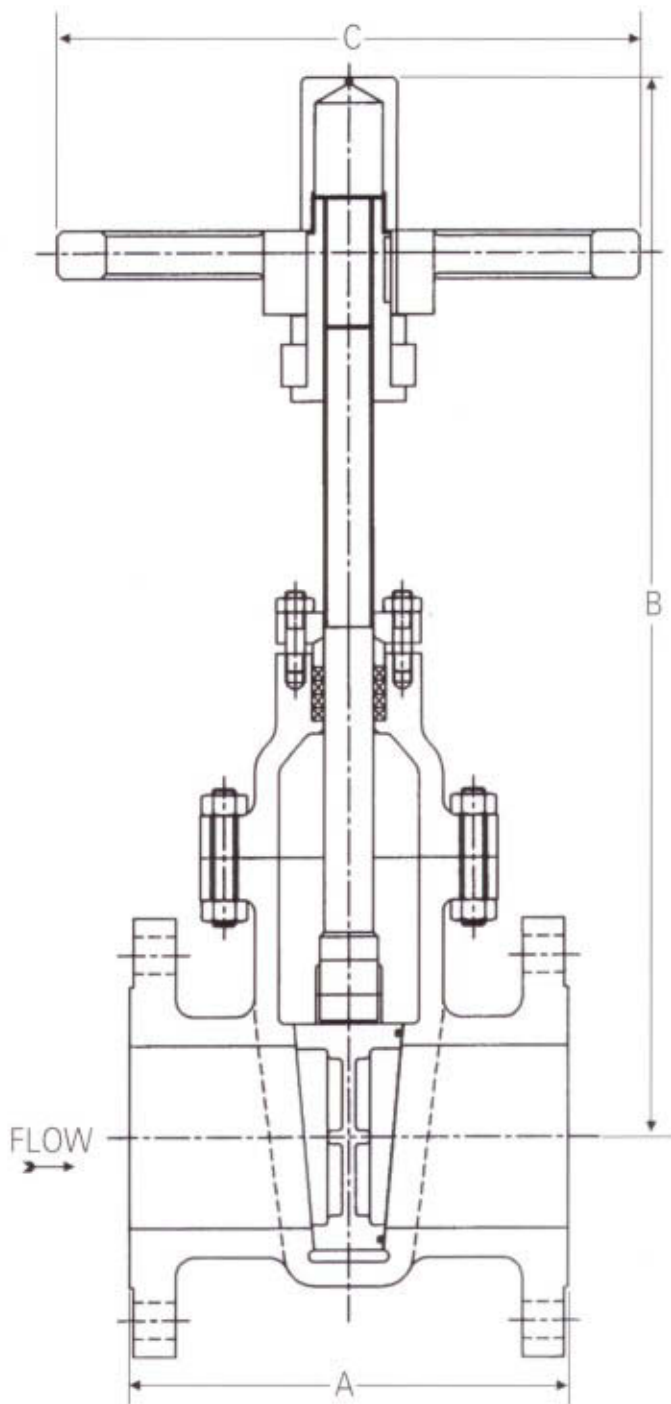
BLACKHALL - BROOKSBANK LTD



Titanium & Exotic Alloy Gate Valves

Series 4100

BLACKHALL - BROOKSBANK LTD. IS A JOINT VENTURE COMPANY BETWEEN BLACKHALL ENGINEERING LTD.
AND BROOKSBANK VALVES LTD. ALL VALVES MANUFACTURED IN THE UNITED KINGDOM.



PART NAME		MATERIAL OPTIONS
1	Body	Titanium
2	Wedge	Duplex
3	Cover	Super Duplex
4	Spindle	Monel 400
		Monel K500
		Hastelloy
		Inconel
		Alloy 20
5	Cover Gasket	P.T.F.E.
6	Gland Packing	Graphite
7	Body/Cover Nut	Stainless Steel or as
8	Body/Cover Stud	per Body
9	Gland Follower	Material
10	Revolving Nut	Aluminium Bronze or
		Stainless Steel
11	Bridge	Stainless Steel
12	Cap Nut	
13	Sunk Key	
14	Pillar Nut	Stainless Steel
15	Pillar	
16	Gland Stud	
17	Handwheel	Stainless Steel
		or Cast Iron
18	Renewable Soft Seat (Option)	Glass Filled P.T.F.E.

OPTIONS

- Drain Plug
- Renewable Soft Seat
- Renewable Body Seats
- Gearbox Operation Recommended for valves 16" (DN 400 and above)
- Hydraulic, Electric and Pneumatic Actuator Options
- Live Loaded Glands
- Total Flexibility of Material Selection, to Customer Specification
- Other Flanges & End Connections Available ie. Butt Weld, Socket Weld or Screwed
- Larger Valves 24" (DN600) up to 56" (DN1400) available on application

Titanium & Exotic Alloy Gate Valves Series 4100

D I M E N S I O N S

Nominal Size	in	1/2	1	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	
	mm	15	25	40	50	65	80	100	150	200	250	300	350	400	450	500	600	
CLASS 150	A (Flanged RF)	in	4 1/2	5	6 1/2	7	7 1/2	8	9	10 1/2	11 1/2	13	14	15	16	17	18	20
		mm	108	127	165	178	191	203	229	267	292	330	356	381	406	432	457	508
	B	in	8	9 1/4	10 7/8	13 1/8	15 1/2	17 3/4	21 7/8	31 1/2	38 3/8	44 3/8	51 1/4	70	77	85	92	108
		mm	203	233	275	332	394	450	555	800	975	1125	1300	1778	1954	2160	2337	2743
	C	in	4	4	6	6	8	8	12	12	16	18 1/2	18 1/2	24	24	24	30	30
		mm	102	102	152	152	203	203	305	305	406	470	470	610	610	610	762	762
CLASS 300	A	in	5 1/2	6 1/2	7 1/2	8 1/2	9 1/2	11 1/8	12	15 1/8	16 1/2	18	19 3/4	30	33	36		
		mm	140	165	191	216	241	283	305	403	419	457	502	762	838	914		
	B	in	8	9 1/4	10 7/8	13 1/8	15 1/2	17 3/4	21 7/8	31 1/2	38 3/8	44 3/8	51 1/4	70	77	85		
		mm	203	233	275	332	394	450	555	800	975	1125	1300	1778	1954	2160		
	C	in	4	4	6	6	8	8	12	12	16	18 1/2	18 1/2	24	24	30		
		mm	102	102	152	152	203	203	305	305	406	470	470	610	610	762		
CLASS 600	F (Flanged RF)	in	-	C A T I O N		-	11 1/2	13	14	17	22	26	31	33				
		mm	-			-	292	330	356	432	559	660	787	838				
	B	in	-			-	17 7/8	18 3/4	22	26 1/4	35 1/4	40	48 1/2	54				
		mm	-			-	454	475	558	666	895	1016	1231	1373				
	C	in	-			-	8	8	12	16	18 1/2	24	30	30				
		mm	-			-	203	203	305	406	470	610	762	762				
CLASS 900	A (Raised Face)	in	-	A P P L I		-	-	15	18	24								
		mm	-			-	-	381	457	610								
	A (RJF)	in	-			-	-	15 1/8	18 1/8	24 1/8								
		mm	-			-	-	384	460	613								
	B	in	-			-	-	22 7/8	27 1/2	38 7/8								
		mm	-			-	-	580	698	988								
C	in	-	O N		-	-	12	16	18 1/2									
	mm	-			-	-	305	406	470									
CLASS 1500	A (Raised Face)	in	-	D E T A I L S		-	14 1/2	16 1/2	18 1/2	21 1/2	27 3/4							
		mm	-			-	368	419	470	546	705							
	A (RJF)	in	-			-	14 5/8	16 5/8	18 5/8	21 5/8	28							
		mm	-			-	371	422	473	549	711							
	B	in	-			-	18 5/8	19 1/2	23 1/2	28 1/4	40 5/8							
		mm	-			-	472	495	597	717	1033							
C	in	-			-	12	12	16	18 1/2	18 1/2								
	mm	-			-	305	305	406	470	470								

T E C H N I C A L D A T A

- Outside Screw Rising Stem
- Non Rising Handwheel
- Bolted Bonnet
- Bolted Gland
- Solid Wedge
- Flanges to ANSI B.16.5 and B.S.1560 Raised Face
- Valve Design and Shell Wall Thickness in Accordance with ANSI B16.34
- Face to Face in Accordance with ANSI B16.10



The Blackhall - Brooksbank Range

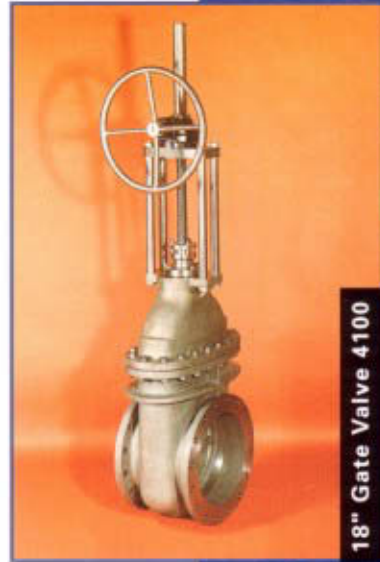
- Globe Valves
- Check Valves
- Ball Valves
- Other Special Purpose Titanium and Exotic Alloyed Valves & Products

Other Products *in* The Brooksbank Range

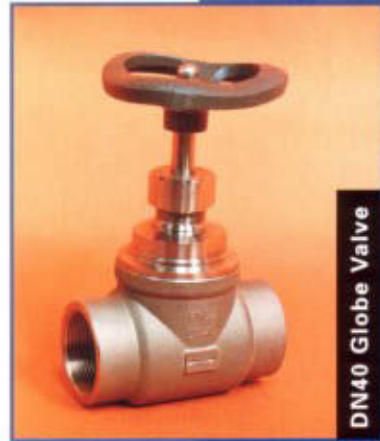
- Single Piece - End Entry Ball Valves
- Single Piece - Top Entry Ball Valves
- Wafer Ball Valves
- Two Piece Ball Valves
- Three Piece Ball Valves
- Hydrant Valves
- 3 Way Valves

Other Products *in* The Blackhall Range

- Cryogenic Gate, Globe and Check Valve
- High Temperature Gate and Plate Valve
- Blakeborough Lerner - Johnson® Flow Control Valve
- Automatic Re-circulation Valves
- 4 - Way Cardio Switch Valves
- Valve Maintenance and Service Department



18" Gate Valve 4100



DN40 Globe Valve



2" Globe Valve 4200



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