SeaCor®

USCG Approved Piping Systems Solutions for Marine Applications

The SeaCor® Piping System offers a cutting-edge, cost-efficient solution designed to enhance vessel performance. Engineered with lightweight, durable thermoplastic materials, SeaCor delivers significant savings for shipowners and operators—both at the point of installation and throughout the system's extended service life.

Advantages:

A Completely Corrosion Free System!

SeaCor is not only a complete system of pipe, fittings and valves, but can also be installed in Category "A" machinery spaces for "non-essential" services and/or applications as approved by the USCG.

USCG Approved

SeaCor is approved for use in non-essential shipboard systems. SeaCor meets the requirements of IMO A753 (18) Part 2 Low Smoke and Toxicity and Part 5 Low Flame Spread as recognized by the US Coast Guard.

Both Pressure and Drainage Applications

It is particularly suited for non-essential marine and offshore applications, including fresh water, hot and cold potable water, seawater, drains, vents, black and grey water, water treatment, and vacuum applications.

Exceptional Fire Characteristcs (CPVC)

SeaCor is approved for use by USCG, ABS, DNV-GL, Transport Canada and NSF Certified.

The SeaCor piping system is produced in the United States from a high performance polymer with unique physical properties desirable for piping applications used in corrosive marine environments. SeaCor has improved thermal properties, impact resistance, and fire performance properties compared to alternate plastics. SeaCor is a pressure-rated system that is highly resistant to acids, alkalis, alcohols, and many other corrosive materials. For pressure applications, it is recommended for temperatures as high as 200°F (93°C) when appropriate temperature de-rating factors are applied.

Technical Data:

Material

- Color: Medium Gray
- Hi-Performance Schedule 80 CPVC
- High Fire Resistance

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Size range and bonding type

- ½ (DN15) - Solvent Cement and Primer
- ¾ (DN20) - Solvent Cement and Primer
- 1 (DN25) - Solvent Cement and Primer
- 1¼ (DN32) - Solvent Cement and Primer
- 1½ (DN40) - Solvent Cement and Primer
- 2 (DN50) - Solvent Cement and Primer
- 2½ (DN65) - Solvent Cement and Primer
- 3 (DN80) - Solvent Cement and Primer
- 4 (DN100) - Solvent Cement and Primer
- 6 (DN150) - Solvent Cement and Primer
- 8 (DN200) - Solvent Cement and Primer
- 10 (DN250) - Solvent Cement and Primer (Special Order)
- 12 (DN300) - Solvent Cement and Primer (Special Order)

Temperature rating

- 32°F (0°C) to 210°F (99°C)

Pressure / Vacuum rating

- Pressure: 232 psi (+16.0 bar) at 73°F (23°C)
- Vacuum: –14.5 psi (–1.0 bar) at 73°F (23°C)

Standards Compliance

- ASTM D635 Flame Spread
- IMO A.653(16) FTP Code Part 5 and Part 2
- ASME B31.3 Bonder Qualification

Approvals

SeaCor™
USCG APPROVED
No. 164. 141/36/0

Transport Canada
Canada

Weight Comparison

	T316L Stainless Steel Sch40		SeaCor Sch80	
Size	lb/ft	kg/m	lb/ft	kg/m
½" IPS (DN15)	0.87	1.29	0.21	0.31
¾" IPS (DN20)	1.14	1.70	0.28	0.42
1" IPS (DN25)	1.70	2.53	0.42	0.63
1¼" IPS (DN32)	2.32	3.45	0.58	0.86
1½" IPS (DN40)	2.77	4.12	0.71	1.06
2" IPS (DN50)	3.75	5.58	0.98	1.46
2½" IPS (DN65)	5.90	8.78	1.45	2.16
3" IPS (DN80)	7.73	11.50	1.99	2.96
4" IPS (DN100)	11.00	16.37	2.91	4.33
6" IPS (DN150)	19.40	28.87	5.47	8.14
8" IPS (DN200)	29.10	43.31	8.41	12.52
10" IPS (DN250)	41.30	61.46	12.50	18.60
12" IPS (DN300)	54.60	81.25	17.10	25.45

Maximum Horizontal Support Hanger Comparison

	Other plastic piping systems		SeaCor Sch80	
Size	ft	m	ft	m
½" IPS (DN15)	4.0	1.2	5.5	1.7
¾" IPS (DN20)	4.0	1.2	5.5	1.7
1" IPS (DN25)	4.0	1.2	6.0	1.8
1¼" IPS (DN32)	4.0	1.2	6.5	2.0
1½" IPS (DN40)	4.0	1.2	7.0	2.1
2" IPS (DN50)	4.6	1.4	7.0	2.1
2½" IPS (DN65)	4.9	1.5	8.0	2.4
3" IPS (DN80)	5.2	1.6	8.0	2.4
4" IPS (DN100)	6.6	2.0	9.0	2.7
6" IPS (DN150)	7.2	2.2	10.0	3.0
8" IPS (DN200)	7.5	2.3	12.0	3.7
10" IPS (DN250)	7.9	2.4	13.5	4.1
12" IPS (DN300)	8.4	2.6	15.0	4.6

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