

PROCOTM

STYLES

720/740

ProFlexTM in-line rubber check valves



The PROCO Series 700 ProFlex In-Line Rubber Check Valve is a cost effective way to control back pressures from sewage treatment plants, outfalls and tidal operations. They are a fully passive flow device requiring neither maintenance, outside sources of power or manual assistance to operate.

The PROCO Series 700 ProFlex In-Line Rubber Check Valves are offered as direct replacements for ineffective and maintenance-ridden check valves, which are commonly known to seize, rust and bind in unwanted positions. Unlike flap type valves, the ProFlex In-Line Rubber Check Valves will handle large obstructions without jamming or having gates binding open. Specify the PROCO Series 700 ProFlex In-Line Rubber Check Valves to provide backflow protection and protect pumps from: (1) Sewage slurries, (2) Outfalls to ocean fronts from heavy rainfall activity. Our history in the manufacture of rubber piping products dates back to 1930. When an engineered solution is needed to solve a piping or backflow problem, call PROCO.

With current global awareness for clean water and the urgency to have all water treatment plants operating under stricter standards, the PROCO Series 700 ProFlex In-Line Rubber Check Valves will also be available in NSF61 approved Nitrile for all potable water and sewage applications. This will include water treatment plants, direct installation on potable water pump systems and other piping systems directly related to the potable water industry.

The PROCO Series 700 ProFlex In-Line Rubber Check Valves are available in a Flanged Type (Style 720), or a Slip-In Type (Style 740).

- **Style 720 — Flanged Type:** Designed to bolt directly between two existing pipe flanges. Flanges are drilled 150# standard. Other drilling standards such as: ANSI 250/300#, British Standard BS-10, JIS, and DIN as well as square flanges are also available upon request. The Style 720 can be installed in either a vertical or horizontal application.
- **Style 740 — Slip-In Type:** Designed to easily slip into an existing pipe and affixed with a heavy-duty Stainless Steel expandable clamp. The Style 740 can be installed in either a vertical or horizontal application.

Elastomers: All of the PROCO Series 700 ProFlex In-Line Rubber Check Valves are available in a various selection of elastomers (see Table 1 below) and back pressure capabilities to suit most applications.

The PROCO Series 700 ProFlex In-Line Rubber Check Valves will not freeze or deform and function solely on inlet and back pressures which will be present in most applications.

Each valve is carefully constructed using the finest of engineered materials and built by the most experienced rubber technicians in the industry. All check valves are engineered in precise detail to ensure proper operation and will provide years of unhindered operation and trouble-free service.

Benefits of the PROCO Series 700 ProFlex In-Line Rubber Check Valves:

- All rubber construction resists abrasive slurries
- NSF61 approved materials
- Very quiet operation with no water hammer
- Unique design prevents backflow
- Negligible maintenance and energy costs
- Will not warp or freeze
- Quick interchange with any type of check valve
- Available in sizes 1" to 72"
- Available to suit all type IDs

For your complete project requirement PROCO also maintains the largest inventory of expansion joints in the world. Rubber, PTFE Lined, Plastic or Metal Hose — PROCO can ship the products you need when you need them! In fact, when it comes to expansion joints, if PROCO doesn't have them in stock ... nobody does!

Information • Ordering • Pricing • Delivery. Day or night, weekends and holidays ... the PROCO phones are monitored 24 hours around the clock. When you have a question, you can call us.

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Table 1: Available Materials • Temperatures

For Specific Elastomer Recommendations, See: **PROCOTM "Chemical To Elastomer Guide"**

PROCO Material Codes	Cover 1, 2 Elastomer	Tube Elastomer	Maximum Operating Temp. °F (°C)	Branding Label Color	F.S.A. Material Class
BB	Chlorobutyl	Chlorobutyl	250° (121°)	Black	STD. III
EE	EPDM	EPDM	250° (121°)	Red	STD. III
NH	Neoprene	Hypalon®	212° (100°)	Green	STD. II
NN	Neoprene	Neoprene	225° (107°)	Blue	STD. II
PP	Nitrile	Nitrile ³	225° (107°)	Yellow	STD. II
NR	Neoprene	Natural Rubber	180° (68°)	White	STD. I
NV	Neoprene	Viton®	225° (107°)	Orange	STD. III

Notes: Hypalon® and Viton® are registered trademarks of DuPont Dow Elastomers.

ProFlexTM is a trademark of PROCO Products, Inc.

All products are reinforced with polyester tire cord.

1. Check Valve "cover" can be coated with Hypalon® on special order.

2. Styles with Neoprene covers meet all requirements of U.S.C.G.

3. NSF61 approved material available upon request.



PROCOTM

STYLE 720



ProFlexTM in-line flanged rubber check valves

Table 2: Sizes • Drilling • Working Pressures • Weights

NOMINAL ¹ PIPE SIZE Inch / (mm)		Standard Dimensions for PROCO Style 720		Standard Drilling for PROCO Style 720				MAXIMUM WORKING PRESSURE (PSIG)	WEIGHT ² lbs / (kgs)	
		Length Inch / (mm)	Duckbill Height Inch / (mm)	Flange O.D. Inch / (mm)	Bolt Circle Inch / (mm)	No. of Holes	Size of Holes Inch / (mm)			
2	(50)	5.75 (146)	1.875 (48)	6.00 (152.40)	4.75 (120.65)	4	0.750 (19.1)	125	5	(2.3)
3	(80)	9 (229)	2.875 (73)	7.50 (190.50)	6.00 (152.40)	4	0.750 (19.1)	125	8	(3.6)
4	(100)	12 (305)	3.875 (98)	9.00 (228.60)	7.50 (190.50)	8	0.750 (19.1)	100	11	(5.0)
5	(125)	15 (381)	4.875 (124)	10.00 (254.00)	8.50 (215.90)	8	0.875 (22.2)	75	13	(5.9)
6	(150)	15.5 (394)	5.875 (149)	11.00 (279.40)	9.50 (241.30)	8	0.875 (22.2)	75	17	(7.7)
8	(200)	16.5 (419)	7.875 (200)	13.50 (342.90)	11.75 (298.45)	8	0.875 (22.2)	75	20	(9.1)
10	(250)	21 (533)	9.875 (250)	16.00 (406.40)	14.25 (361.95)	12	1.000 (25.4)	50	29	(13.2)
12	(300)	26 (660)	11.875 (302)	19.00 (482.60)	17.00 (431.80)	12	1.000 (25.4)	50	47	(21.3)
14	(350)	25 (635)	13.000 (349)	21.00 (533.40)	18.75 (476.25)	12	1.250 (31.8)	50	61	(27.7)
16	(400)	27 (686)	15.000 (400)	23.50 (596.90)	21.25 (539.75)	16	1.250 (31.8)	50	94	(42.6)
18	(450)	29 (737)	17.000 (451)	25.00 (635.00)	22.75 (577.85)	16	1.250 (31.8)	25	158	(71.7)
20	(500)	34 (864)	19.000 (502)	27.50 (698.50)	25.00 (635.00)	20	1.250 (31.8)	25	234	(106.1)
24	(600)	44 (1118)	23.000 (603)	32.00 (812.80)	29.50 (749.30)	20	1.375 (34.9)	25	308	(139.7)
28	(700)	47 (1194)	27.000 (687)	36.50 (927.10)	34.00 (863.60)	28	1.375 (34.9)	25	362	(164.2)
30	(750)	49 (1245)	29.000 (737)	38.75 (984.25)	36.00 (914.40)	28	1.375 (34.9)	25	417	(189.1)
32	(800)	54 (1372)	31.000 (787)	41.75 (1060.45)	38.50 (977.90)	28	1.625 (41.3)	25	454	(206.0)
36	(900)	59 (1499)	35.000 (889)	46.00 (1168.40)	42.75 (1085.85)	32	1.625 (41.3)	25	499	(226.3)
42	(1050)	63 (1600)	41.000 (1041)	53.00 (1346.20)	49.50 (1257.30)	36	1.625 (41.3)	25	729	(330.7)
48	(1200)	74 (1880)	47.000 (1194)	59.50 (1511.30)	56.00 (1422.40)	44	1.625 (41.3)	25	754	(342.0)
54	(1350)	75 (1905)	53.000 (1346)	66.25 (1682.75)	62.75 (1593.85)	44	2.000 (50.8)	25	813	(368.8)
60	(1500)	83 (2108)	59.000 (1499)	73.00 (1854.20)	69.25 (1758.95)	52	2.000 (50.8)	25	964	(437.3)
72	(1800)	99 (2515)	71.000 (1803)	86.50 (2197.10)	82.50 (2095.50)	60	2.000 (50.8)	25	1125	(510.3)

Notes: Higher back pressures can be obtained by using Internal Supports, contact PROCO.
Dimensions are approximate and may change due to pipe dimension changes, inlet, back pressures and flow rates.
1. Larger sizes available upon request.
2. Weights are approximate.

Detail of ProFlex In-Line Flanged Rubber Check Valve; Style 720

