Medium Pressurg

to 65,000 psi (4,500 bar) **High Pressure** 

**Ultra High Pressure** 152,000 psi (10,500 bar

Valve Actuators

to 21,000 psi (1,500 bar)

# **MAXIMATOR®**









#### Medium Pressure Valves, Fittings and Tubing Pressures to 21,000 psi (1,500 bar)

MAXIMATOR has been designing and manufacturing high pressure equipment for more than thirty years and has a worldwide reputation for quality and ability, backed by one of the best service organizations in the industry.

#### **Medium Pressure Valves feature:**

- Rising stem design.
- ▶ 316 L (1.4404) wetted parts for excellent corrosion resistance.
- Metal-to-metal seating achieves bubble-tight shut-off, longer stem and seat life, greater durability for repeated open and close cycles.
- ▶ PTFE and carbon packing with metal back-up rings offers reliable step to body sealing.
- ▶ Non-rotating stem prevents stem to seat galling.
- ▶ Stem sleeve and packing gland materials have been selected to achieve optimum thread cycle life and reduced handle torque. All stem sleeve threads are rolled, assuring smooth operation.
- Safety weep holes for all pressure connections and packing area.
- Six different valve body patterns, with choice of vee or regulating type stem tip.

MAXIMATOR offers a complete line of medium pressure fittings, tubing, check valves, line filters, anti-vibration fittings and safety head assemblies. All medium pressure valves and fittings use the medium pressure style connection. This coned and threaded connection features orifice sizes to match the high flow characteristics of the medium pressure valve, fitting and tubing line.

**Note:** When selecting multiple items, the pressure rating would be that of the lowest rated component

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**Vledium Pressure** o 21,000 psi (1,500 bar

0

to 65,000 psi (4,500 bar)

**Ultra High Pressure** to 152,000 psi (10,500 bar

**High Pressure** 

**Valve Actuators** 

to 21,000 psi (1,500 bar)

# **MAXIMATOR®**

# Medium Pressure Valves Pressures to 21,000 psi (1,500 bar)



#### **Ordering Information**

Typical catalog number: 21V4MO71

21 V	4M	07	1	OPTIONS
Valve Series	O.D. Tube Size	Stem Type	Body Pattern	Extreme temperature
21V	4M - 1/4" 6M - 3/8" 9M - 9/16" 12M - 3/4 16M - 1	07 – VEE stem 08 – REGULATING stem (tapered tip for regulating and shutoff) 87 – VEE stem with replaceable seat 88 – REGULATING stem with replaceable seat	1 – two-way straight 2 – two-way angle 3 – three-way, two on pressure 4 – three-way, one on pressure 5 – three-way, two-stem manifold	option, see below.

#### **Special Designs for Extreme Temperatures**

Standard valves are supplied with Teflon/Carbon packing and may be operated to 450°F (230°C). High temperature packing and/or extended stuffing box are available for service from -423°F to 1200°F (-217°C to 650°C) by adding the following suffixes to catalog order number.

- TG standard valve with teflon glass packing to 600°F (315°C).
- **GY** standard valve with graphite braided yarn packing to 800°F **(425°C)**.
- HT extended stuffing box valve with graphite braided yarn packing to 1200°F (650°C).
- B standard valve with cryogenic trim materials and Teflon packing to 100°F (13°C).
- LT extended stuffing box valve with teflon packing and cryogenic trim materials to -423°F (-217°C).

#### **Repair Kits**

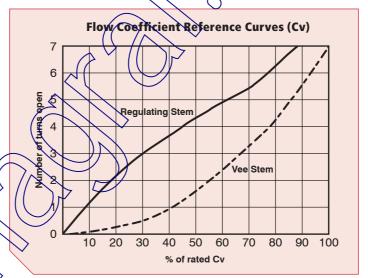
Consult your **MAXIMATOR** representative for repair kits and valve bodies. Refer to the Tools and Installation section for proper maintenance procedures.

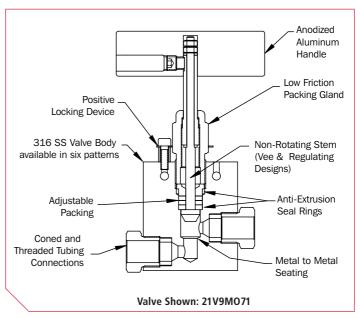
**MAXIMATOR** medium pressure valves with metal to metal seats have a high level of safety and reliability under adverse operating conditions. These valves may be used both with gases and liquids.

Traceability is ensured through extensively documented data (batch number, maximum pressure, material number, type designation). All medium pressure valves include glands and collars.

O.D. Size in. <b>(mm)</b>	Connection Type	Orifice Size in. <b>(mm)</b>	Rated Cv*	Pressure/Temp. Rating psi @ R.T. (bar)**
¹¼ (6.35)	4MF	0.125 <b>(3.2)</b>	0.31	21,800 <b>(1,500)</b>
<sup>3</sup> / <sub>8</sub> (9.53)	6MF	0.219 <b>(5.6)</b>	Q. <b>X</b> 5	21, <b>0</b> 00 <b>(1,500)</b>
<sup>9</sup> / <sub>16</sub> (14.29)	9MF	0.312 (7.9)	7 1.30	21,000 (1,500)
3/4 (19.05)	12MF	0.438 <b>(11.1)</b>	2.50	21,000 (1,500)
1 (25.4)	16MF	0.562 (14.3)	4.40	21,000 <b>(1,500)</b>

- Cv values shown are for 2-way straight pattern vee stein valve For 2-way angle patterns, increase the Cv value by 50%.
- \*\* See page 2 in the Technical Section for Pressure/Temperature Rating Chart.





**High Pressure** to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Medium Pressure

**Valve Actuators** 

# **MAXIMATOR®**

# Medium Pressure Valves Pressures to 21,000 psi (1,500 bar)

Valve Pattern	Catalog Number	Stem Type	O.D. Tube							ns in. (r				.,	Valve Panel	Block Th(ck-
	Number	Туре	in.	(mm)	А	В	С	D	E	F	Н		J	K	Hole	neks
2-Way Straight						ı										
A B	21V4M071	Vee	1/4	0.125	4.61	2.01	1.62	0.22	0.37	1.24	2.95	1.19	2.01		8.75	0.79
C	21V4M081	Reg	74	(3.2)	(117)	(51)	(41.1)	(5.6)	(9.5)	(31.5)	(75)	(30.2)	(51)	1	(19.1)	(20.1)
	21V6M071	Vee	3/8	0.219	4.61	2.01	1.62	0.22	0.37	1.24	2.95	1.19	2.01		0.75	0.79
	21V6M081	Reg	3/8	(5.6)	(117)	(51)	(41.1)	(5.6)	(9.5)	(31.5)	(75)	(30.2)	(54)		(1,97)	(20.1)
E 5	21V9M071	Vee	0.1	0.312	6.35	2.88	2.38	0.22	0.37	1.38	3.9/4	1.75	2.50		1.00	1.02
- <del>-</del>	21V9M081	Reg	<sup>9</sup> / <sub>16</sub>	(7.9)	(161.3)	(73.2)	(60.5)	(5.6)	(9.5)	(35)	(100)	(44.5)	(63.5)	ľ	(25.4)	(25.9)
	21V12M071	Vee		0.438	7.05	3.74	3.00	0.43	0.63	1/18	10.31	2.25	3,90		1.25	1.38
	21V12M081	Reg	3/4		(179)		(76)	(11)		111		(57,2)	(76)		(31.8)	
	21V16M071	Vee		0.562	8.98	4.65	3.75	<b>€</b> 0.53	1.13	2.50	10.31	2.81	4.13		1.62	1.77
	21V16M081	Reg	1	(14.3)	(228)			\ \				(71.4)	(105)		(41.1)	
2-Way Angle											<u> </u>					
A	21V4M072	Vee		0 125	5.00	2 /13	1.19	0.22	1 37	1.24	2.95	1.00	2.01		0.75	0.79
В	21V4M082	Reg	1/4				(30.2)	7.7	(9.5)	(31.5)		(25.4)			(19.1)	
	21V6M072	Vee		0.219	5.00	2.43	1,19	0.22	0.37	1.24	2.95	1.00	2.01		0.75	0.79
	21V6M082	Reg	3/8			(61.7)	(30,2)			(31.5)		(25.4)	(51)		(19.1)	(20.1)
	21V9M072	Vee		0.312	6,85	3.38	1.75	0.22	0.37	1.38	3.94	1.25	2.50		1.00	1.02
	21V9M082	Reg	<sup>9</sup> /16	(7.9)	\ \		(44.5)		(9.5)			(31.8)			(25.4)	(25.9)
	21V12M072	Vee		0.438	7.56	4,25	2.25	0.43	0.63	1.76	10.31	1.50	3.00		1.25	1.38
	21V12M082	Reg	3/4	l'			(57.2)	(11)	(16)	(44.7)	(262)	(38)	(76)		(31.8)	(35)
	21V16M072	Vee		0.562	9.45	5.12	2.81	0.53	1.13	2.50	10.31	2.07	4.13		1.62	1.77
	21V16M082 (	Reg	1		(240)							(52.5)	(105)		(41.1)	
3-Way / 2 on Pressure				>												
A	21V4M073	Vee	>	0.125	5.20	2.62	1.62	0.22	0.37	1.24	2.95	1.00	2.01	1.19	0.75	0.79
B	21V4W083	Reg	1/4									(25.4)				
	21V6M0X3	Vee		0 219	5.20	2 62	1.62	0.22	0.37	1 74	2.95	1.00	2.01	1.19	0.75	0.79
	21 V6M083	Reg	3/8							1	1	(25.4)				
-E- 5	21V9M073	Vee		0.312	7.09	3.62	2.38	0.22	0 37	1 32	3 94	1.25	2 50	1 75	1 00	1.02
-K-	21V9M083	Reg	<sup>9</sup> /16				(60.5)					(31.8)				
	21V12M073	Vee		0.438	7.97	4.63	3.00	0.43	0.63	1 76	10.31	1 50	3.00	2.25	1.25	1.38
	21V12M083	Reg	3/4		(201)			(11)	1	(44.7)					(31.8)	
	21V16M073	Vee		0 562	10.20	5 87	3.75	0.53	1 13	2.50	10 31	2 07	4.13	2.81	1.62	1.77
	21V16M083	Reg	1									( <b>52.5</b> )				
			<u> </u>									crow the				

G - Panel mounting screw thread size 10-24 UNC.
All dimensions are for reference only and are subject to change.

**High Pressure** to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Medium Pressure

**Valve Actuators** 

to 21,000 psi (1,500 bar)

# **MAXIMATOR®**

#### **Medium Pressure Valves**

Pressures to 21,000 psi (1,500 bar)

Valve Pattern	Catalog	Stem	O.D. Tube	Orifice in.				Dim	nensior	is in. <b>(n</b>	nm)				Valve Panel	
valverattern	Number	Туре	in.	(mm)	А	В	С	D	Е	F	Н	I	J	K	Hole	ness
3-Way / 1 on Pressure																
A B	21V4M074	Vee	4.	0.125	5.00	2.43	1.19	0.22	0.37	1.24	2.95	1.00	2.01		0,75	0.79
	21V4M084	Reg	1/4	(3.2)	(127)	(61.7)	(30.2)	(5.6)	(9.5)	(31.5)	(75)	(25.4)	(51)		(19.1)	(20.1)
	21V6M074	Vee		0.219	5.00	2.43	1.19	0.22	0.37	1.24	2.95	1.00	2.01	.((	0.75	8,79
	21V6M084	Reg	3/8	(5.6)			(30.2)			(31.5)		(25.4)		4		(20.1)
C S	21 V9M074	Vee		0.312	6.85	3.38	1.75	0.22	0.37	1.38	3.94	1.25/	2.50		1.80	1.02
	21V9M084	Reg	9/16	(7.9)	(174)	(85.9)	(44.5)	(5.6)	(9.5)	(35)	(100)	(31.8)	/		٧ .	(25.9)
	21V12M074	Vee		0.438	7.56	4.25	2.25	0.43	0.63	1.76	10.81	7.50	3.00		1.25	1.38
	21V12M084	Reg	3/4				(57.2)			(44.7)	1 / /		(76)		(31.8)	
	21V16M074	Vee		0.562	9.53	5.12	2.81	0.53	<b>(13</b> )	2.50	10.31	2.07	413		1.62	1.77
	21V16M084	Reg	1	(14.3)	(242)	(130)			· ·	(63,5)					(41.1)	(45)
3-Way / 2-Stem Manifold												<u> </u>				
A B	21V4M075	Vee		0.125	8.54	3.39	1.69	0.22	0.37	1.24	2.95	1.00	2.01	1.19	0.75	0.79
CO	21V4M085	Reg	1/4	(3.2)	(217)	(86)	(43)			(31.5)		(25.4)	(51)	(30.2)	(19.1)	(20.1)
	21V6M075	Vee	3/8	0.219	8.54	3.39	1.69	0.22	0.37	1.24	2.95	1.00	2.01	1.19	0.75	0.79
K K	21V6M085	Reg	-78	(5.6)	(217)	(86)	(43)	(5.6)	(9.5)	(31.5)	(75)	(25.4)	(51)	(30.2)	(19.1)	(20.1)
	21V9M075	Vee	97	0.312	12.06	5.12	2.56	0,22	0.37	1.38	3.94	1.25	2.50	1.75	1.00	1.02
	21V9M085	Reg	<sup>9</sup> /16	(7.9)	(306.2)	(130)	(65)_	(5,6)	(9)5)	(35)	(100)	(31.8)	(63.5)	(44.5)	(25.4)	(25.9)
	21V12M075	Vee	21	0.438	13.07/	6.50	3.25	0.43	0.63	1.76	10.31	1.50	3.00	2.25	1.25	1.38
	21V12M085	Reg	3/4	(11.1)	(332)	(165)	(82.5)	(11)	(16)	(44.7)	(262)	(38)	(76)	(57.2)	(31.8)	(35)
	21V16M075	Vee		0.562	16.18	7.52	3.76	0.53	1.13	2.50	10.31	2.07	4.13	2.81	1.62	1.77
	21V16M085	Reg		(14.3)	(411)	(191)	(95.5)	(13.5)	(28.7)	(63.5)	(262)	(52.5)	(105)	(71.4)	(41.1)	(45)
2-Way Angle / Replaceabl	e Seat				$\Diamond$											
A A	21V4M872	Vee		0.125	4.84	2.25	1.19	0.22	0.37	1.24	2.95	1.00	2.01		0.75	0.79
B	21V4M882	Reg		(3.2)	(123)	(57.2)	(30.2)	(5.6)		(31.5)	(75)	(25.4)	(51)		(19.1)	(20.1)
	2100101872	Vee	2,	0.219	4.84	2.25	1.19	0.22	0.37	1.24	2.95	1.00	2.01		0.75	0.79
	21V6M882	Reg	3/8	(5.6)	(123)	(57.2)	(30.2)	(5.6)		(31.5)	(75)	(25.4)	(51)		(19.1)	(20.1)
E  O	21V9M8Z2	Vee	۵,	0.312	6.68	3.21	1.75	0.22	0.37	1.38	3.94	1.25	2.50		1.00	1.02
	21V9M882	Reg	<sup>9</sup> /16	(7.9)	(169.6)	(81.5)	(44.5)	(5.6)	(9.5)	(35)	(100)	(31.8)	(63.5)		(25.4)	(25.9)
	21V12M872	Vee	2.	0.438	7.56	4.25	2.25	0.43	0.63	1.76	10.31	1.50	3.00		1.25	1.38
	21V12M882	Reg	3/4	(11.1)	(192)	(108)	(57.2)		(16)	(44.7)			(76)		(31.8)	(35)
	21V16M872	Vee		0.562	9.57	5.25	2.81	0.53	1.13	2.50	10.31	2.07	4.13		1.62	1.77
	21V16M882	Reg	1	(14.3)											(41.1)	
				l .						anel moi		<u> </u>		1	1	

G - Panel mounting screw thread size 10-24 UNC.
All dimensions are for reference only and are subject to change.

to 65,000 psi (4,500 bar) **High Pressure** 

to 152,000 psi (10,500 bar) **Ultra High Pressure** 

Medium Pressure

**Valve Actuators** 

# **MAXIMATOR®**

#### **Medium Pressure Fittings** Pressures to 21,000 psi (1,500 bar)

MAXIMATOR medium pressure fittings are designed with the large orifice for use with the 21V series medium pressure valves and medium pressure tubing. All medium pressure fittings have coned and threaded type connections. Mounting holes are standard on all elbows, tees, and crosses.

	Gland	Collar	Plug	Tubing Cap
Tubing Size in. <b>(mm)</b>				
1/4 (6.35)	21G4M	21C4M	21P4M	21TC4M
<sup>3</sup> / <sub>8</sub> (9.53)	21G6M	21C6M	21P6M	21TC6M
<sup>9</sup> / <sub>16</sub> <b>(14.29)</b>	21G9M	21C9M	21P9M	21TC9M
<sup>3</sup> / <sub>4</sub> (19.05)	21G12M	21C12M	21P12M	21TC12M
1 (25.4)	21G16M	21C16M	21P16M	21TC16M



#### Connection Components

All medium pressure fittings are supplied with glands and collars. Refer to the adjacent chart for ordering any of the connection components individually. When using the plug, the collar is not needed.

	Catalog	Connection	O.D. Tube	Orifice			Dimer	isions in.	(mm)			Block
Fitting Pattern	Number	Type	Size in.	in. ( <b>mm</b> )	А	В	1	DO	Е	F	G	Thick- ness
Elbow								$\supset$				
F F	21L4M	4MF	1/4	0.125 <b>(3.2)</b>	0.75	1.10	1.54 (39.1)	0.75 <b>(19.1)</b>	0.49 <b>(12.5)</b>	0.49 <b>(12.5)</b>	0.22 <b>(5.6)</b>	0.63 <b>(16)</b>
C	21L6M	6MF	3/8	0.219	1.00 (25.4)	1.38 ( <b>35</b> )	2.00 <b>(50.8)</b>	1.00 <b>(25.4)</b>	0.63 <b>(16)</b>	0.63 <b>(16)</b>	0.26 <b>(6.6)</b>	0.79 <b>(20.1)</b>
	21L9M	9MF	9/18	0.359	1.25)	1.75 (44.5)	2.50 <b>(63.5)</b>	1.25 <b>(31.8)</b>	0.84 <b>(21.3)</b>	0.84 <b>(21.3)</b>	0.33 <b>(8.4)</b>	1.02 <b>(25.9)</b>
	21L12M	12MF	3/4	0.516	1.50 (38.1)	2.25 <b>(57.2)</b>	3.00 <b>(76)</b>	1.50 (38.1)	1.00 <b>(25.4)</b>	1.00 <b>(25.4)</b>	0.35 <b>(8.9)</b>	1.38 <b>(35)</b>
	21L16M	16MF	1	0.688 (17.4)	2.06 <b>(52.3)</b>	3.00 <b>(76)</b>	4.13 <b>(105)</b>	2.06 <b>(52.3)</b>	1.38 <b>(35)</b>	1.38 <b>(35)</b>	0.53 <b>(13.5)</b>	1.77 <b>(45)</b>
Tee												
	21T4M	4 M/F	1/4	0.125 <b>(3.2)</b>	0.75 <b>(19.1)</b>	1.10 <b>(28)</b>	1.54 <b>(39.1)</b>	0.75 <b>(19.1)</b>	0.49 <b>(12.5)</b>	0.49 <b>(12.5)</b>	0.22 <b>(5.6)</b>	0.63 <b>(16)</b>
	2176M	S 6MF	3/8	0.219 <b>(5.6)</b>	1.00 <b>(25.4)</b>	1.38 <b>(35)</b>	2.00 <b>(50.8)</b>	1.00 <b>(25.4)</b>	0.63 <b>(16)</b>	0.63 <b>(16)</b>	0.26 <b>(6.6)</b>	0.79 <b>(20.1)</b>
	21T9M	9MF	<sup>9</sup> / <sub>16</sub>	0.359 <b>(9.1)</b>	1.25 <b>(31.8)</b>	1.75 <b>(44.5)</b>	2.50 <b>(63.5)</b>	1.25 <b>(31.8)</b>	0.84 <b>(21.3)</b>	0.84 <b>(21.3)</b>	0.33 <b>(8.4)</b>	1.02 <b>(25.9)</b>
	21T12M	12MF	3/4	0.516 <b>(13.1)</b>	1.50 <b>(38.1)</b>	2.25 <b>(57.2)</b>	3.00 <b>(76)</b>	1.50 <b>(38.1)</b>	1.00 <b>(25.4)</b>	1.00 <b>(25.4)</b>	0.35 <b>(8.9)</b>	1.38 <b>(35)</b>
	21T16M	16MF	1	0.688 <b>(17.4)</b>	2.06 <b>(52.3)</b>	3.00 <b>(76)</b>	4.13 <b>(105)</b>	2.06 <b>(52.3)</b>	1.38 <b>(35)</b>	1.38 <b>(35)</b>	0.53 <b>(13.5)</b>	1.77 <b>(45)</b>

All dimensions are for reference only and are subject to change. See page 2 in the Technical Section for pressure/temperature rating chart.

**High Pressure** to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Medium Pressurg

**Valve Actuators** 

**Ball Valves** to 21,000 psi (1,500 bar)

# **MAXIMATOR®**

#### Medium Pressure Fittings Pressures to 21,000 psi (1,500 bar)

									, ,				
Fitting Pattern	Catalog	Connection	O.D. Tube	Orifice in.			Dimer	isions in.	(mm)			Block Thick-	
	Number	Type	Size in.	(mm)	А	В	С	D	E	F	G	ness	
Cross													
G F	21X4M	4MF	1/4	0.125 <b>(3.2)</b>	0.77 <b>(19.5)</b>	1.54 <b>(39.1)</b>	1.54 <b>(39.1)</b>	0.77 <b>(19.5)</b>	0.49 <b>(12.5)</b>	0.98 <b>(25)</b>	0.22 ( <b>5.6</b> )	0.63	
	21X6M	6MF	3/8	0.219 <b>(5.6)</b>	1.00 <b>(25.4)</b>	2.00 <b>(50.8)</b>	2.00 <b>(50.8)</b>	1.00 <b>(25.4)</b>	0.63 <b>(16)</b>	1.26 ( <b>32)</b>	0.26 ( <b>6.6</b> )	0.79 (20.1)	
	21X9M	9MF	<sup>9</sup> /16	0.359 <b>(9.1)</b>	1.25 <b>(31.8)</b>	2.50 <b>(63.5)</b>	2.50 ( <b>63.5</b> )	1.25 <b>(31.8)</b>	0.84 <b>(21.3)</b>	(1.67 ( <b>42.6</b> )	0.33 (8.4)	1.02 ( <b>25.9</b> )	
	21X12M	12MF	3/4	0.516 <b>(13.1)</b>	1.50 ( <b>38.1</b> )	3.00 <b>(76)</b>	3.00 (76)	1.50 (38.1)	(1.00 (2 <b>5.4</b> )	2.00 ( <b>50</b> )8	0.35 (8.9)	1.38 <b>(35)</b>	
	21X16M	16MF	1	0.688 <b>(17.4)</b>	2.06 <b>(52.3)</b>	4.13 <b>(105)</b>	4.13 (105)	2.06 <b>(52.3)</b>	1.38 ( <b>35</b> )	2.76 ( <b>70</b> )	0.53 <b>(13.5)</b>	1.77 <b>(45)</b>	
Straight Coupling /	Union Coup	ling							$\rightarrow$				
	21F4M	4MF	1/4	0.125	1.62	0,59	<i>&gt; [[</i>	77	Straigh	nt Coupli	ng		
a and a second	21UF4M	71111	.74	(3.2)	(41.1)	((7.5)	6		Union	Couplin	g		
Α	21F6M	CNAF	2.4	0.219	1,75	0.88			Straigh	nt Coupli	ng		
	21UF6M	6MF	3/8	(5.6)	(44.5)	(22,3)	$\Diamond$		Union	Couplin	g		
	21F9M	9MF	97	0,259	Straight Cou					nt Coupli	ng		
	21UF9M		<sup>9</sup> / <sub>16</sub>	(9.1)	(53.8)	(27)	))		Union	Couplin	g		
	21F12M			0.516	2,50	1.44			Straigh	nt Coupli			
	21UF12M	12MF	3/4	Y(3.1)	(63.5)	(36.5)			Union	Couplin	g		
	21F16M	(		0.688	3.50	2.00			Straigh	nt Coupli	ng		
	21UF16M	16MF	1	(17.4)	(88.9)	(50.8)			Union	Couplin	g		
<b>Bulkhead Coupling</b>													
E max.  D panel hole	21BF4M	4MF	0/4	0.125 ( <b>3.2</b> )	1.88 <b>(47.8)</b>	1.06 <b>(27)</b>	1.06 <b>(27)</b>	0.81 <b>(20.6)</b>	0.67 <b>(17)</b>				
A	21BF6M	6MF	3/8	0.219 <b>(5.6)</b>	2.01 <b>(51)</b>	1.06 <b>(27)</b>	1.06 <b>(27)</b>	0.94 <b>(23.9)</b>	0.39 <b>(9.9)</b>				
<	Z18F9W	9MF	<sup>9</sup> / <sub>16</sub>	0.359 <b>(9.1)</b>	2.38 <b>(60.5)</b>	1.44 <b>(36.5)</b>	1.44 <b>(36.5)</b>	1.12 <b>(28.5)</b>	0.39 <b>(9.9)</b>				
	21BF12M	12MF	<sup>3</sup> / <sub>4</sub>	0.516 <b>(13.1)</b>	2.81 <b>(71.4)</b>	1.62 <b>(41.3)</b>	1.62 <b>(41.3)</b>	1.37 <b>(34.8)</b>	0.47 <b>(11.9)</b>				
	21BF16M	16MF	1	0.688 <b>(17.4)</b>	3.54 <b>(89.9)</b>	2.00 <b>(50.8)</b>	2.00 <b>(50.8)</b>	1.68 <b>(42.6)</b>	0.51 <b>(13)</b>				

All dimensions are for reference only and are subject to change.

See page 2 in the Technical Section for pressure/temperature rating chart

Medium Pressure

to 65,000 psi (4,500 bar)

to 152,000 psi (10,500 bar)

# **MAXIMATOR®**

## **Anti-Vibration Collet Gland Assembly**

Pressures to 21,000 psi (1,500 bar)

MAXIMATOR anti-vibration collet gland assemblies are for use in applications where there could be extreme external mechanical vibrations or shock in tubing lines. These collet gland assemblies are interchangeable with the standard medium pressure coned and threaded tube connections.

In a normal coned and threaded tube connection, any external mechanical loading on the tubing lines, valves or fittings would be concentrated on the first thread of the tube. This can cause failure of the tube at this thinner cross-section. The anti-vibration collet gland assembly grips the tube behind the connection, supporting the tube at the full cross-section and straight area, moving the loading away from the threaded

The back part of the assembly has a gland nut that, when tightened properly, compresses a split collet on the tube, providing the beneficial gripping action.

All anti-vibration collet gland assemblies come with a Molyh

Catalog Number  21AVA4M  21AVB4M	Part  Complete Assembly	O.D. Tubing Sze in.	A Di	mensions in. (m	m)
21AVA4M		Size in.	Λ		
	Complete Assembly		A	B (Hex.)	C (Hex.
21AVB4M					
	Collet Body	1/4	1.27	0.50	0.62
21AVC4M	Slotted Collet	>1/4	(32.2)	(12,7)	(15.7)
21AVG4M	Gland Nut				
21AVA6M	Complete Assembly				
21AVB6M	Collet Body	3/0	1.54	0.62	0.81
21AVC6M	Slotted collet	3/8	(39.1)	(15.7)	(20.6)
21AVG6M	Gland Nut				
21AVA9M	Complete Assembly				
21AVB9M	Collet Body	9/10	1.82	0.94 <b>(23.9)</b>	0.94
21AVC9M	Slotted Collet	3/16	(46.2)		(23.9)
21AVG9M	Gland Nut				
21AVA12M	Complete Assembly				
21AVB12M	Collet Body	3/4	2.01	1.19	1.25
21AVC12M	Slotted Collet	574	(51)	(30.2)	(31.8)
21AVG12M	Gland Nut				
21AVA16M	Complete Assembly				
	21AVA6M 21AVB6M 21AVC6M 21AVG6M 21AVA9M 21AVB9M 21AVC9M 21AVG9M 21AVB12M 21AVB12M 21AVC12M 21AVG12M	21AVA6M  21AVB6M  21AVC6M  21AVC6M  21AVG6M  Complete Assembly  Complete Assembly  Complete Assembly  Complete Assembly  Complete Assembly  Slotted Collet  Complete Assembly  Complete Assembly	21AVA6M  21AVB6M  21AVC6M  21AVC6M  21AVG6M  Complete Assembly  21AVA9M  Complete Assembly  21AVB9M  Complete Assembly  21AVC9M  Slotted Collet  21AVG9M  Gland Nut  21AVA12M  Complete Assembly  21AVB12M  Complete Assembly  21AVB12M  Complete Assembly  21AVC12M  Slotted Collet  21AVC12M  Slotted Collet  21AVC12M  Complete Assembly  21AVC12M  Complete Assembly  21AVC12M  Complete Assembly  Collet Body  21AVC12M  Complete Assembly  Complete Assembly	21AVA6M 21AVC6M 21AVC6M 21AVC6M 21AVC6M 3/8  21AVC6M 3/8  21AVC6M Gland Nut 21AVA9M Complete Assembly 21AVB9M Collet Body 21AVC9M Slotted Collet 21AVG9M Gland Nut 21AVA12M Complete Assembly 21AVB12M Complete Assembly 21AVB12M Collet Body 21AVC12M Slotted Collet 21AVC12M Slotted Collet 21AVC12M Complete Assembly 21AVB12M Complete Assembly 21AVC12M Complete Assembly	21AVA6M   Complete Assembly   21AVG6M   Collet Body   3/8   1.54   (39.1)   (15.7)

**Gland Nut** 

All dimensions are for reference only and subject to change.

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21AVG16M

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7

to 21,000 psi (1,500 bar)

to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

**High Pressure** 

Medium Pressure

**Valve Actuators** 

to 21,000 psi (1,500 bar)

# **MAXIMATOR®**

# Medium Pressure Tubing Pressures to 21,000 psi (1,500 bar)

**MAXIMATOR** offers a line of cold drawn thick wall tubing, with flow areas to compliment the large orifice medium pressure valves and fittings. This tubing is made under strict manufacturing and quality control standards and inspections, with dimensional tolerances to match the requirements of the medium pressure coned and threaded connections.

The standard materials are 304 and 316 stainless steels. Other materials may be provided on special request, depending on the specific material, diameters and lengths.

#### **Tubing Tolerances**

Normal Tubing Size in. <b>(mm)</b>	Tolerance O.D. in. <b>(mm)</b>
1/4 (6.35)	0.248 / 0.243 <b>(6.299 / 6.172)</b>
<sup>3</sup> / <sub>8</sub> (9.53)	0.370 / 0.365 <b>(9.398 / 9.271)</b>
<sup>9</sup> / <sub>16</sub> <b>(14.29)</b>	0.557 / 0.552 <b>(14.147 / 14.021)</b>
<sup>3</sup> / <sub>4</sub> (19.05)	0.745 / 0.740 <b>(18.923 / 18.796)</b>
1 (25.4)	0.995 / 0.990 <b>(25.273 / 25.174)</b>

					(		>		
		Fits	Tube Size	in. <b>(mm)</b>		Mock	ing Pressure psi (	bar)	
Catalog Number	Tube Material	Connection Type	0.D.	I.D.	-325 to 100°F (-198°C to 37°S)	200°F (93°C)	400°F (204°C)	600°F ( <b>315°C)</b>	800°F ( <b>426°C)</b>
21TU4M-316	31655		_	0.109	21,000	18,900	17,430	15,960	15,120
21TU4M-304	304SS	4MF	1/4	(2.77)	(1,500)	(1,300)	(1,200)	(1,100)	(1,040)
21TU6M-316	316SS		~	0.203	27,000	18,900	17,430	15,960	15,120
21TU6M-304	304SS	6MF	3/8	(5.17)	(1,500)	(1,300)	(1,200)	(1,100)	(1,040)
21TU9M-316	31655	0145		0.312	21,000	18,900	17,430	15,960	15,120
21TU9M-304	30455	9MF	9/16	(7.93)	(1,500)	(1,300)	(1,200)	(1,100)	(1,040)
15TU9M-316	31655			0.359	15,200	13,680	12,616	11,552	10,944
15TU9M-304	30455	SUNE	3/16/	(9.12)	(1,050)	(940)	(870)	(790)	(750)
21TU12M-316	34655	The state of the s	<b>&gt;</b>	0.438 <b>(11.13)</b>	21,000 <b>(1,500)</b>	18,900 <b>(1,300)</b>	17,430 <b>(1,200)</b>	15,960 <b>(1,100)</b>	15,120 <b>(1,040)</b>
15TU12M-316	31052	12MF	3/4	0.516 <b>(13.11)</b>	15,200 <b>(1,050)</b>	13,680 <b>(940)</b>	12,616 <b>(870)</b>	11,552 <b>(790)</b>	10,944 <b>(750)</b>
21TU16M-316	316557	>		0.562 <b>(14.27)</b>	21,000 <b>(1,500)</b>	18,900 <b>(1,300)</b>	17,430 <b>(1,200)</b>	15,960 <b>(1,100)</b>	15,120 <b>(1,040)</b>
15TU16M-316	31055	16MF	1	0.688 (17.48)	15,200 (1,050)	13,680 ( <b>940</b> )	12,616 ( <b>870</b> )	11,552 ( <b>790</b> )	10,944 ( <b>750</b> )

 ${\it All\ dimensions\ are\ for\ reference\ only\ and\ subject\ to\ change}.$ 

to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

**High Pressure** 

**Medium Pressure** 

**Valve Actuators** 

to 21,000 psi (1,500 bar)

# **MAXIMATOR®**

# **Coned and Threaded Nipples**

Pressures to 21,000 psi (1,500 bar)



MAXIMATOR offers a line of coned and threaded medium pressure tube nipples in a variety of lengths for all standard tube sizes.

The coned and threaded medium pressure tube nipples are available in 316 stainless steel.

They are also available in the 15,200 psi (1,050 bar) or 21,000 psi (1,500 bar) versions for the 9/16", 3/4" and 1" OD tube sizes. See chart below for ordering information.

Special length coned and threaded hipples are available upon request. Consult MAXIMATOR for availability and price.

		Catalog Numbe	rs are 316 Stainle	ss Steel material			Fits Con-		e Size (mm)	Working Pressure
2.75" <b>(69.85)</b> Length	3 <b>" (76.2)</b> Length	4" <b>(101.6)</b> Length	6" <b>(152.4)</b> Length	8" <b>(203.2)</b> Length	10 (254) Length	12" (304.8) Length	nection Type	0.D.	I.D.	at 100°F psi <b>(bar)</b>
21N4M-2.75-316	21N4M-3-316	21N4M-4-316	21N4M-6-316	21N4M-8-316	24N4M-10-316	21N4M-12-316	4MF	1/4	0.109 <b>(2.77)</b>	21,000 <b>(1,500)</b>
	21N6M-3-316	21N6M-4-316	21N6M-6-316	21U6M-8-316	21W6W-10-316	21N6M-12-316	6MF	3/8	0.203 <b>(5.17)</b>	21,000 <b>(1,500)</b>
		21N9M-4-316	21N9M-6-316	21N9M-8-316	21N9M-10-316	21N9M-12-316	9MF	<sup>9</sup> / <sub>16</sub>	0.312 <b>(7.93)</b>	21,000 <b>(1,500)</b>
		15N9M-4-316	15N9M-6-316	15N9M-8-316	15N9M-10-316	15N9M-12-316	9MF	9/16	0.359 <b>(9.12)</b>	15,200 <b>(1,050)</b>
			211/12/11-6-316	21N12M-8-316	21N12M-10-316	21N12M-12-316	12MF	3/4	0.438 <b>(11.13)</b>	21,000 <b>(1,500)</b>
		M	15N12M-6-316	15N12M-8-316	15N12M-10-316	15N12M-12-316	12MF	3/4	0.516 <b>(13.11)</b>	15,200 <b>(1,050)</b>
			21N16M-6-316	21N16M-8-316	21N16M-10-316	21N16M-12-316	16MF	1	0.562 <b>(14.27)</b>	21,000 <b>(1,500)</b>
			15N16M-6-316	15N16M-8-316	15N16M-10-316	15N16M-12-316	16MF	1	0.688 <b>(17.48)</b>	15,200 <b>(1,050)</b>

Standard nipples are not supplied with grands and collars, see Fittings on page 4 for these components.

See adjacent Tubing page 6, for pressure/temperature rating chart.

All dimensions are for reference only and subject to change

to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

**High Pressure** 

0

Medium Pressure

**Valve Actuators** 

to 21,000 psi (1,500 bar)

# **MAXIMATOR®**

#### **Check Valves**

Pressures to 21,000 psi (1,500 bar)

# O-Ring Check Valves

#### **O-Ring Check Valves**

MAXIMATOR o-ring check valves provide high quality directional flow control and tight shutoff for liquids and gases. All check valves are supplied with glands and collars. These check valves are not to be used as a relief device.

#### Materials.

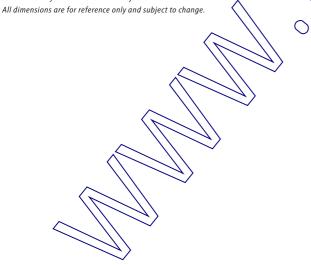
Body, cover, poppet, cover gland: 316 series stainless steel

Spring: 300 series stainless steel

O-ring: Viton "A" [4°F to 392°F (-20°C/to 200°C)

					$\searrow$		
Valve Pattern	Catalog Number	Connection Type	Pressure Rating psi <b>(bar)</b>	Orifice in. (mm)	Rated (Cv)		nsions mm) B
O-Ring Check Valves					<b>)</b>		
	210C4M	4MF	21,000 (1,500)	0,125, (3,2)	0.28	0.88 <b>(22.3)</b>	2.91 <b>(73.9)</b>
В	210C6M	6МД	21,000 (1,500)	0.219 <b>(5.6)</b>	0.84	1.06 <b>(27)</b>	3.31 ( <b>84.1</b> )
7	210C9M	9ME	(1,500)	0.359 <b>(9.1)</b>	2.30	1.44 <b>(36.5)</b>	4.21 <b>(106.9)</b>
	210C12M	12MF	21,000 (1,500)	0.516 <b>(13.1)</b>	4.70	2.00 <b>(50.8)</b>	5.43 <b>(137.9)</b>
	210C16M	16MF	21,000 <b>(1,500)</b>	0.688 <b>(17.4)</b>	7.40	2.00 <b>(50.8)</b>	6.57 <b>(166.9)</b>

CAUTION: FREQUENT INSPECTIONS of O-Rings are necessary to ensure proper service of the check valve. O-Rings have shown satisfactory service life in testing, however different service conditions may lead to variations in cycle and shelf life.



Medium Pressure to 21,000 psi (1,500 bar)

to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

**High Pressure** 

**Valve Actuators** 

to 21,000 psi (1,500 bar)

Check Valves
Pressures to 21,000 psi (1,500 bar)

#### Ball Check Valves



#### **Ball Check Valves**

MAXIMATOR ball check valves prevent reverse flow where bubble tight shutoff is not mandatory. These check valves are designed with a ball cradled floating poppet to assure positive inline seating. This poppet design allows full flow around the ball to minimize pressure drop. Check valves are rated to 660°F (350°C). All check valves are supplied with glands and collars. These check valves are not to be used as a relief device.

#### Materials.

Body, cover, poppet, cover gland. 316L series stainless steel Ball and spring: 300 series stainless steel

				((	$ \bigcirc $		
Valve Pattern	Catalog Number	Connection Type	Pressure Rating psi(bar)	Orifice in. (mm)	Rated (Cv)	Dimer in. (	nsions mm)
Ball Check Valves		/				7 (Text)	
	21BC4M	4MF)	21/000 (1,500)	0.125 (3.2)	0.28	0.88 <b>(22.3)</b>	2.91 <b>(73.9)</b>
В	21BC6M	6MF	21,000	0.219 <b>(5.6)</b>	0.84	1.06 <b>(27)</b>	3.31 <b>(84.1)</b>
1	21BC9M	9MF	21,000 (1,500)	0.359 <b>(9.1)</b>	2.30	1.44 <b>(36.5)</b>	4.21 <b>(106.9)</b>
	21BC12M	12MF	21,000 <b>(1,500)</b>	0.516 <b>(13.1)</b>	4.70	2.00 <b>(50.8)</b>	5.43 <b>(137.9)</b>
$\swarrow$	21BC16M	16MF	21,000 <b>(1,500)</b>	0.688 <b>(17.4)</b>	7.40	2.00 <b>(50.8)</b>	6.57 <b>(166.9)</b>
		CAUTIO check valu	N: FREQUENT INSF ve. O-Rings have si	hown satisfactory s condition	gs are necessary to service life in testin ns may lead to vari ns are for reference	ng, however di ations in cycle	fferent servi and shelf li

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Medium Pressure 21,000 psi (1,500 bar

0

to 65,000 psi (4,500 bar)

to 152,000 psi (10,500 bar **Ultra High Pressure** 

**High Pressure** 

21,000 psi (1,500 bar)

# **MAXIMATOR**<sup>®</sup>

#### **Line Filters**

Pressures to 21,000 psi (1,500 bar)

#### **Dual-Disc Line Filters**

MAXIMATOR dual-disc line filters are used to filter process fluids in high pressure systems. This design helps remove the large particles first through a coarse primary disc, which then allows a secondary disc to provide a smaller micron filtration. These filter elements are designed to withstand pressure surges without cracking, flaking, or rupturing. Filter elements come standard in the following micron sizes: 5/8, 8/30, 30/56 (secondary/primary). Filters are rated for temperatures -60°F to 660°F (-50°C to 350°C). All line filters come with glands and collars.

#### **Materials**

Body: cover, cover gland: 316L series stainless steel

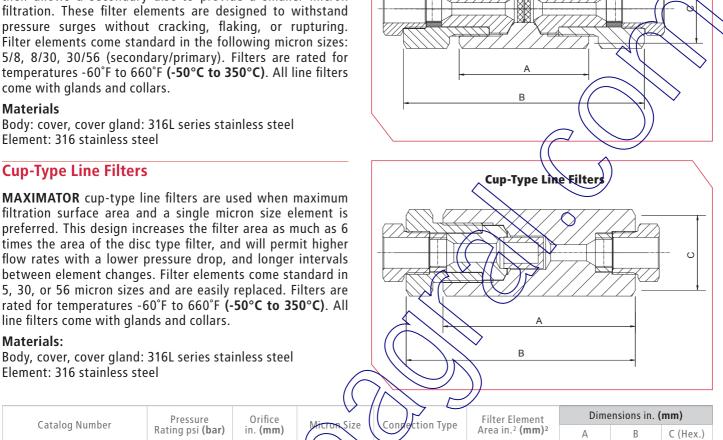
Element: 316 stainless steel

#### **Cup-Type Line Filters**

MAXIMATOR cup-type line filters are used when maximum filtration surface area and a single micron size element is preferred. This design increases the filter area as much as 6 times the area of the disc type filter, and will permit higher flow rates with a lower pressure drop, and longer intervals between element changes. Filter elements come standard in 5, 30, or 56 micron sizes and are easily replaced. Filters are rated for temperatures -60°F to 660°F (-50°C to 350°C). All line filters come with glands and collars.

#### **Materials:**

Element: 316 stainless steel



**Dual-Disc Line Filters** 

	Kating psi (bar)	in. (mm)			Area In.² (mm)²	А	В	C (Hex.)
<b>Dual-Disc Line Filte</b>	rs		-	>				
21DF9M - 5/8 21DF9M - 8/30 21DF9M - 30/56	21,000 <b>(1,500)</b>	0.3¶2 (7.9)	5/8 8/30 30/56	9MF	0.25 <b>(160)</b>	2.68 <b>(68.1)</b>	4.96 <b>(126)</b>	1.44 <b>(36.5)</b>
Cup-Type Line Filters								
21CF4M-5 21CF4M-30 21CF4M-56	21,000	0,125	5 30 56	4MF	0.82 <b>(530)</b>	2.38 <b>(60.5)</b>	2.87 <b>(72.9)</b>	0.88 <b>(22.3)</b>
21CF6M-5 21CF6M-30 21CF6M-56	21,000 (1,500)	0.219 ( <b>5.6</b> )	5 30 56	6MF	0.82 <b>(530)</b>	2.83 <b>(71.8)</b>	3.35 <b>(85.1)</b>	1.06 <b>(27)</b>
21CF9M-5 21CF9M-30 21CF9M-56	27,008	0.359 <b>(9.1)</b>	5 30 56	9MF	1.55 <b>(1,000)</b>	3.63 <b>(92.2)</b>	4.33 <b>(110)</b>	1.44 <b>(36.5)</b>
21CF12M-5 21CF12M-30 21CF12M-56	24,000 (1,050)	0.516 <b>(13.1)</b>	5 30 56	12MF	6.14 <b>(3,960)</b>	5.75 <b>(146)</b>	6.57 <b>(166.9)</b>	2.00 <b>(50.8)</b>
21CF16M-5 21CF16M-30 21CF16M-56	21,000 <b>(1,500)</b>	0.688 <b>(17.4)</b>	5 30 56	16MF	6.14 <b>(3,960)</b>	5.75 <b>(146)</b>	6.57 <b>(166.9)</b>	2.00 <b>(50.8)</b>

It is recommended that all fluids entering a high pressure system be thoroughly cleaned. Maximator filters are designed to remove small amounts of process particles. Pressure differential should not exceed 1000 psi across the filter elements.

All dimensions for reference only and are subject to change.

**High Pressure** to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Medium Pressure

**Valve Actuators** 

to 21,000 psi (1,500 bar)

# **MAXIMATOR®**

Safety Head Assembly Pressures to 21,000 psi (1,500 bar)

**MAXIMATOR** safety head assemblies are used to provide over-pressure protection to high pressure systems. These safety head assemblies are to be used with the appropriate 1/4" angular rupture disc listed in the chart below.



# Repture disc (not included) Safety Head Assembly Hold-down ring Hold-down 3/8 NPT female connection

						) /			
Safety Head Assembly Catalog Number	Fits	Pressure Rating	Body Torque ft - lbs.			ensions in. (n		F	
without Disc				(Hex.)	(Hex.)	) (LG.)	D (I.D.)	(I.D.)	
21SH4M	4MF	21,000	20	((1.06)	0.88	2.48	0.109	0.250	
213114111	71411	(1,500)	(30)	(27)	(22.3)	(63)	(2.8)	(6.3)	
		21,000	30	1.06	0.88	2.72	0.203	0.250	
21SH6M	6MF	(1,500)	(40)	(27)	(22.3)	(69.1)	(5.1)	(6.3)	
		21,000	55	1.06	0.88	2.51	0.312	0.250	
21SH9M	9MF	(1,500)	(75)	(27)	(22.3)	(63.7)	(7.9)	(6.3)	
		(.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		/ / '7'	(==:=)	(00.17)	(212)	(5.5)	
		21,000 ((	90	1.19	0.88	2.72	0.312	0.250	
21SH12M	12MF	(1,500)	(120)	(30.2)	(22.3)	(69.1)	(7.9)	(6.3)	
		21/000	150	1.44	0.00	2.72	0.212	0.250	
21SH16M	16MF	21,000	150	1.44	0.88	2.72	0.312	0.250	
		(1,506)	(200)	(36.6)	(22.3)	(69.1)	(7.9)	(6.3)	

All dimensions for reference only and are subject to change.

**High Pressure** to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

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Medium Pressure

**Valve Actuators** 

to 21,000 psi (1,500 bar)

# **MAXIMATOR®**

## 1/4" Angular Rupture Discs



1/4" angular seat rupture discs are designed to be used with the safety head assemblies that are show above. Minimum rupture disc pressure ratings should be at least 110% of system operating pressure. The standard material is Inconel. The pressure ranges indicated in the table below are at room temperature (72°F). Other materials and pressure ranges are available upon request.

Catalog Number	Pressure range psi <b>(bar)</b>				
RD-1000	970 - 1,060 <b>(66.9-73.1)</b>				
RD-1200	1,164 - 1,272 (80.3-87.7)				
RD-1500	1,455 - 1,590 <b>(99.7-109.7)</b>				
RD-1750	1,697 - 1,855 <b>(117-127.9)</b>				
RD-2000	1,940 - 2,120 <b>(133.8-146.2)</b>				
RD-2500	2,425 - 2,650 <b>(167.2-182.8)</b>				
RD-3000	2,910 - 3,180 <b>(200.7-219.3)</b>				
RD-3500	3,395 - 3,710 <b>(234.1-255.9)</b>				
RD-4000	3,880 - 4,240 <b>(267.6-292.4)</b>				
RD-4500	4,365 - 4,770 <b>(301-329)</b>				
RD-5000	4,850 - 5,300 <b>(334.5-365.5)</b>				

Catalog Number	Pressure range psi <b>(bar)</b>
RD-5500	5,335 - 5,830 <b>(367.9-402.1)</b>
RD-6000	5,820 - 6,360 <b>(401.4-438.6)</b>
RD-6500	6,305 - 6,890 <b>(434.8-475.2)</b>
RD-7000	6,790 - 7,420 <b>(468.3 - 511.7)</b>
RD-7500	7,275 - 7,950 <b>(501.7-548.3)</b>
RD-8000	7,760 - 8,480 ( <b>535.2 - 584.8</b> )
RD-8500	8,245 - 9,010 (568.6 - 621.4)
RD-9000	8,730 - 9,540 (602.1 - 657.9)
RD-9500	9,215 -10,070 (635.5 - 694.5)
RD-10000	9/708 - 10,600 (669 - 7731)
RD-11000	(735.9 - 804.1)

Catalog Number	Pressure range psi (bar)
RD-12000	11,649 - 12,728 (802.8 - 877.2)
RD-13000	12,610 - 13,780 ( <b>869.7 - 950.3)</b>
RD-14000	13,580 - 14,840 (936.6 - 1023.4)
RD-15000	14,550 - 15,900 (1,003.4 - 1,096.6)
RD-16000	15,520 - 16,960 <b>(1,070.3 - 1,169.7)</b>
RD-17000	16,490 - 18,020 <b>(1,137.2 - 1,242.8)</b>
RD-18000	17,460 - 19,080 <b>(1,204.1 - 1,315.9)</b>
RD-19000	18,430 - 20,140 <b>(1,271 - 1,389)</b>
RD-20000	19,400 - 21,200 <b>(1,337.9 - 1,462.1)</b>
RD-21000	20,370 - 22,260 <b>(1,404.8 - 1,535.2)</b>
RD-22000	21,340 - 23,320 (1,471.7 - 1,608.3)



Rupture Discs are individually packed and marked type plate.



All technical and dimensional information subject to change. All general Terms and Conditions of sale, including limitations of our liability, apply to all products and services sold.

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