to 65,000 psi (4,500 bar)

to 152,000 psi (10,500 bar

Ultra High Pressure

Valve Actuators

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

1

High Pressure

High Pressure Valves, Fittings and Tubing

» Pressures to 65,000 psi (4,500 bar)









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

High Pressure Valves feature:

- · Rising stem design.
- 316 L (1.4404) wetted parts and 17-4 PH Stem 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 stem 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 high pressure valves, fittings, tubing, check valves, line filters, anti-vibration fittings and safety head assemblies. All high pressure valves and fittings use the high pressure style connection.

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

High Pressure Index	Page:
Valves rated to 36,000 psi (2,500 bar).	2 – 3
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High Pressure to 65,000 psi (4,500 bar)

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

Valve Actuators

to 21,000 psi (1,500 bar)

Ball Valves

High Pressure Valves

» Pressures to 36,000 psi (2,500 bar)



High pressure valves

Maximator high 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, max. pressure, material number, type designation). All high pressure valves include glands and collars.

Ordering Information Typical catalog number: 36V4H872

36 V Valve Series	4H O.D. Tube Size	87 Stem Type	2 Body Pattern	Options
36 V	4H – 1/4"	07 – VEE stem	1 – two-way straight	Extreme
	6H – 3/8"	08 – REGULATING stem*	2 – two-way angle	temperature
	9H – 9/16"	87 – VEE stem with replaceable seat	3 – three-way, two on pressure	option, see
		88 – REGULATING stem with replaceable seat*	4 – three-way, one on pressure	information
			5 – three-way, two-stem manifold	below.

Options for High pressure valves

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 (-252°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 (-73°C).
- LT extended stuffing box valve with teflon packing and cryogenic trim materials to -423°F (-252°C).

ı		Connec- tion Type	Orifice Size in. (mm)	Rated Cv**	Pressure Rating @ R.T. psi (bar)***
	1/4 (6.35)	4HF	0.094 (2.3)	0.12	36,000 (2,500)
	3/8 (9.53)	6HF	0.125 (3.2)	0.23	36,000 (2,500)
	9/16 (14.30)	9HF	0.125 (3.2)	0.33	36,000 (2,500)

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

- * tapered tip for regulating and shutoff
- ** Cv values shown are for 2-way straight pattern vee stem valves. For 2-way angle patterns, increase the Cv value by 50%.
- *** See page 2 in the Technical Section for Pressure/Temperature Rating Chart.

Products for Sour

Adapters and

to 22,500 psi (1,550 bar)

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

to 152,000 psi (10,500 bar)

Ultra High Pressure

Valve Actuators

to 21,000 psi (1,500 bar)

2 | 3

Ball Valves

Medium Pressure

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G - Panel mounting screw thread size 10-24 UNC (screw included). All dimensions are for reference only and are 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

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

High Pressure Valves

» Pressures to 43,000 psi (2,965 bar)



High pressure valves

Maximator high 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, max. pressure, material number, type designation). All high pressure valves include glands and collars.

Ordering Information
Typical catalog number:
43V16M072

43 V Valve Series	16M O.D. Tube Size	07 Stem Type	2 Body Pattern
43 V	16M – 1"	07 – VEE stem	1 – two-way straight
		08 – REGULATING stem*	2 – two-way angle
		87 – VEE stem with replaceable seat	3 – three-way, two on pressure
		88 – REGULATING stem with replaceable seat*	4 – three-way, one on pressure
			5 – three-way, two-stem manifold

Connec- tion Type	Orifice Size in. (mm)	Rated Cv**	Pressure Rating @ R.T. psi (bar)***

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

- * tapered tip for regulating and shutoff
- ** Cv values shown are for 2-way straight pattern vee stem valves. 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)

Valve Actuators

to 21,000 psi (1,500 bar)

4 | 5

Ball Valves

Valve Pattern	Catalog Number	Stem Type	O.D. Tube	Orifice in.					sions in					. 1/	Valve Panel	Block Thick-
2-Way Straight			in.	(mm)	A	В	C	D	E		н	Ė	J	K	Hole	ness
B A	43V16M071	Vee	1	0.438	9.472	4.45	3.50	0.571	1.122	2.50	10.35	2.736	4.921		1.614	2.244
	43V16M081	Reg	1	(11.1)	(240)	(113)	(88.9)	(14.5)	(28.5)	(63.5)	(263)	(69.5)	(125)		(41)	(57)
2-Way Angle																
B A	43V16M072	Vee	1	0.438 (11.1)		5.12 (130)	1.50 (38)		1.122 (28.5)	2.50 (63.5)	10.35 (263)	2.431 (62.5)	4.921 (125)		1.614 (41)	2.244
	43V16M082	Reg		(11.1)	(121)	(130)	(30)	(14.3)	(20.5)	(03.3)	(203)	(02.3)	(123)		(41)	(57)
3-Way / 2 on Pressure																
8 C	43V16M073	Vee	1	0.438 (11.1)	10.19	5.87 (149)	3.75 (95.3)	0.571 (14.5)	1.122 (28.5)	2.50 (63.5)	10.35 (263)	2.431 (62.5)	4.921 (125)	2.81 (71.4)	1.614 (41)	2.244 (57)
	43V16M083	Reg		(11.1)	(203)	(149)	(33.3)	(14.0)	(20.3)	(03.3)	(203)	(02.3)	(123)	(71.4)	(41)	(37)
3-Way / 1 on Pressure																
9	43V16M074	Vee	1	0.438			2.81			2.50 10.35				1.614	2.244	
	43V16M084	Reg		(11.1)	(242)	(132)	(71.4)	(14.5)	(28.5)	(63.5)	(263)	(62.5)	(125)		(41)	(57)
3-Way / 2-Stem Manifold																
	43V16M075	Vee	1	0.438		7.52	3.76		1.122		10.35		4.921		1.614	2.244
	43V16M085	Reg		(11.1)	(411)	(191)	(95.5)	(14.5)	(28.5)	(63.5)	(263)	(62.5)	(125)	(71.4)	(41)	(57)
2-Way Angle / Replaceable Seat																
B A	43V16M872	Vee	1	0.438		5.25	2.81		1.122		10.35		4.921		1.614	2.244
E C	43V16M882	Reg		(11.1)	(244)	(133)	(71.4)	(14.5)	(28.5)	(63.5)	(263)	(62.5)	(125)		(41)	(57)

G - Panel mounting screw thread size 10-24 UNC (screw included). 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

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

High Pressure Fittings

» Pressures to 43,000 psi (2,965 bar)

High pressure fittings

Maximator high pressure fittings are designed to be used with the 43V series high pressure valves and high pressure tubing.

All high 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						
1	43G16M	43C16M	43P16M	43TC16M		

Connection Components

All high 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.

Fitting Pattern	Catalog	Connection	0.D.	Orifice			Dimen	sions in. (r	nm)			Block
	Number	Туре	Tube Size in.	in. (mm)	A	В	С	D	E	F	G	Thick- ness
Elbow												
	43L16M	16MF	1	0.438 (11.1)	2.07 (52.5)	3.00 (76.2)	4.13 (105)	2.06 (52.3)	1.38 (35)	1.38 (35)	0.53 (13.5)	1.77 (45)
Tee												
E C	43T16M	16MF	1	0.438 (11.1)	2.07 (52.5)	3.00 (76.2)	4.13 (105)	2.06 (52.3)	1.38 (35)	2.76 (70)	0.53 (13.5)	1.77 (45)
Cross												
	43X16M	16MF	1	0.438 (11.1)	2.07 (52.5)	4.13 (105)	4.13 (105)	2.07 (52.5)	1.38 (35.2)	2.75 (70)	0.53 (13.5)	1.77 (45)
Straight Coupling / Union C	Coupling											
Straight Coupling	43F16M	40115		0.438	3.50	2.00			Straigh	t Coupling		
Union Coupling	43UF16M	16MF	1	(11.1)	(89)	(50.8)			Union (Coupling		
Bulkhead Coupling												
D panel hole	43BF16M	16MF	1	0.438 (11.1)	3.50 (88.9)	2.00 (50.8)	2.36 (60)	1.69 (43)	0.47 (12)			

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

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

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

Anti-Vibration and Safety Head Assembly

» Pressures to 43,000 psi (2,965 bar)

Anti-vibration collet gland assemblies

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 high pressure coned and threaded tube connections.

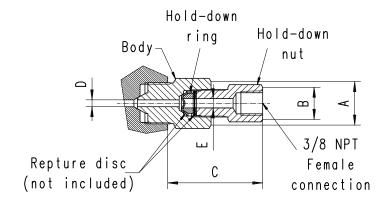


Gland Pattern	Catalog Part Number		0.D. Tubing Size in.	Dimensions in. (mm)		
				A	B (Hex.)	
B	43AVA16M	Complete Assembly				
4	43AVB16M	Collet Body	1	2.44	1.50	
	43AVC16M	Slotted Collet	'	(61.9)	(38.1)	
B	43AVG16M	Gland Nut				

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

Safety head assemblies

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 and flat rupture disc.



Safety Head Assembly	Fits Connection	Pressure Rating	Body Torque		Dimensio	ns in. (mm)		
Catalog Number without Disc	Туре	psi (bar)	ft - Ibs. (Nm)	A (Hex.)	B (Hex.)	C (LG.)	D (I.D.)	E (I.D.)
43SH16M	16MF	43,000 (2,965)	150 (200)	1.44 (36.5)	0.88 (22.4)	2.72 (69.1)	0.307 (7.8)	0.250 (6.3)

All dimensions for reference only and are subject of change

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

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

Medium Pressure

Valve Actuators

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

Check Valves

» Pressures to 43,000 psi (2,965 bar)

O-Ring Check Valves

Maximator O-Ring Check Valves provide high quality directional flow control and tight shut-off 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. The opening pressure of the O-Ring Check Valves is approx. 20 psi (1.5 bar).

» Materials:

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

Spring: 300 series stainless steel

O-Ring: FKM "A" [-4°F to 392°F(-20°C to 200°C)]

Ball Check Valves

Maximator Ball Check Valves prevent reverse flow where bubble tight shut-off 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. The opening pressure of the Ball Check Valves is approx. 20 psi (1.5 bar).

» Materials:

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



Valve Pattern	Catalog Number	Connection Type	Pressure Rating psi (bar)	Orifice in. (mm)	Rated (Cv)	Dimer in. (mi A (Hex.)	
0-Ring Check Valves							
В	430C16M	16MF	43,000 (2,965)	0.438 (11.1)	4.3	2.00 (50.8)	6.433 (163.4)
Ball Check Valves							
B	43BC16M	16MF	43,000 (2,965)	0.438 (11.1)	4.3	2.00 (50.8)	6.433 (163.4)

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

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

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

Valve Actuators

to 21,000 psi (1,500 bar)

Ball Valves

Tubing and Coned and Threaded Nipples

» Pressures to 43,000 psi (2,965 bar)

High Pressure Tubing

Maximator offers a line of cold drawn thick wall tubing, with flow areas to compliment the 43,000 psi high pressure valves and fittings series. This tubing is made under strict manufacturing and quality control standards and inspections, with dimensional tolerances to match the requirements of the high pressure coned and threaded connections.

Tubing Tolerances

Normal Tubing Size	Tolerance O.D
in. (mm)	in. (mm)
1 (25.4)	0.995 / 0.990 (25.273 / 25.174)



Catalog Number	Tube	Fits	Tube Size	in. (mm)		Working Pressure psi (bar)								
	Material	Connection Type	0.D.	I.D.	-325°F to 100°F (-198°C to 37°C)	200°F (93°C)	400°F (204°C)	600°F (315°C)	800°F (426°C)					
43TU16M-316	316SS	16MF	1 (25.4)	0.438 (11.1)	43,000 (2,965)	38,700 (2,670)	35,830 (2,470)	32,480 (2,240)	31,050 (2,140)					

All dimensions for reference only and are subject of change.

Coned and threaded nipples

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

The coned and threaded high pressure tube nipples are available in 316 stainless steel. See chart below for ordering information.

Special length coned and threaded nipples are available upon request. Consult Maximator for availability and price.



	· ·	316 Stainless Steel material yth in. (mm)		Fits Con-	Tube Size in. (mm)		Working Pressure
6" (152.4)	8" (203.2)	10" (254)	12" (304.8)	nection Type	0.D.	I.D.	at 100°F psi (bar)
43N16M-6-316	43N16M-8-316	43N16M-10-316	43N16M-12-316	16 M F	1 (25.4)	0.438 (11.1)	43,000 (2,965)

Standard nipples are not supplied with glands and collars, see Fittings on page 6 for these components. See adjacent Tubing information, for pressure/temperature rating chart.

All dimensions are for reference only and subject to change.

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

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

Valve Actuators

to 21,000 psi (1,500 bar)

Ball Valves

High Pressure Valves

» Pressures to 65,000 psi (4,500 bar)



High pressure valves

Maximator high 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, max. pressure, material number, type designation). All high pressure valves include glands and collars.

Ordering Information Typical catalog number: 65V6H073

65 V Valve Series	6H O.D. Tube Size	07 Stem Type	3 Body Pattern	Options
65 V	4H – 1/4"	07 – VEE stem	1 – two-way straight	Extreme
	6H – 3/8"	08 – REGULATING stem*	2 – two-way angle	temperature
	9H – 9/16"	87 – VEE stem with replaceable seat	3 – three-way, two on pressure	option, see
		88 – REGULATING stem with replaceable seat*	4 – three-way, one on pressure	information
			5 – three-way, two-stem manifold	below.

Options for High pressure valves

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 (-252°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 (-73°C).
- LT extended stuffing box valve with teflon packing and cryogenic trim materials to -423°F (-252°C).

O.D. Size in. (mm)	Connec- tion Type	Orifice Size in. (mm)	Rated Cv**	Pressure Rating @ R.T. psi (bar)***
1/4 (6.35)	4HF	0.062 (1.6)	80.0	65,000 (4,500)
3/8 (9.53)	6HF	0.062 (1.6)	0.09	65,000 (4,500)
9/16 (14.3 0)) 9HF	0.078 (2)	0.14	65,000 (4,500)

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

- * tapered tip for regulating and shutoff
- ** Cv values shown are for 2-way straight pattern vee stem valves. For 2-way angle patterns, increase the Cv value by 50%.
- *** See page 2 in the Technical Section for Pressure/Temperature Rating Chart.

Adapters and

Medium Pressure to 22,500 psi (1,550 bar)

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

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

Valve Actuators

to 21,000 psi (1,500 bar)

Ball Valves

Valve Pattern	Catalog Number	Stem Type	O.D. Tube	Orifice in.				Dimen	sions in	. (mm)					Valve Panel	Block Thick
	Number	Турс	in.	(mm)	A	В	C	D	E	F	Н		J	K	Hole	ness
2-Way Straight																
. A .	65V4H071	Vee	1/4	0.062	4.67	2.13	1.69	0.22	0.37	1.38	2.95	1.32	2.01		1.00	1.02
В	65V4H081	Reg	1/4	(1,6)	(118.6)	(54.1)	(43)	(5.6)	(9.5)	(35)	(75)	(33.5)	(51)		(25.4)	(25.9
	65V6H071	Vee	3/8	0.062	4.80	2.24	1.69	0.22	0.37	1.38	2.95	1.32	2.01		1.00	1.02
- L=	65V6H081	Reg	3/0	(1,6)	(122)	(56.9)	(43)	(5.6)	(9.5)	(35)	(75)	(33.5)	(51)		(25.4)	(25.9
	65V9H071	Vee	9/16	0.078	5.04	2.50	1.75	0.22	0.37	1.38	2.95	1.30	2.64		1.00	1.54
`	65V9H081	Reg	9/10	(2)	(128)	(63.5)	(44.5)	(5.6)	(9.5)	(35)	(75)	(33)	(67)		(25.4)	(39.1
2-Way Angle																
	65V4H072	Vee		0.062	4.06	2 20	1 24	0.22	0.27	1 20	2.05	1.00	2.01		1.00	1.02
A B B	65V4H082	Reg	1/4	0.062 (1,6)	4.96 (126)	2.38 (60.5)	1.34 (34)	0.22 (5.6)	0.37 (9.5)	1.38 (35)	2.95 (75)	1.00 (25.4)	2.01 (51)		1.00 (25.4)	(25.9
-E	65V6H072	Vee		0.062	5.16	2.62	1.32	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
	65V6H082	Reg	3/8	(1,6)	(131)	(66.5)	(33.5)	(5.6)	(9.5)	(35)	2.95 (75)	(25.4)	(51)		(25.4)	(25.9
***	65V9H072	Vee		0.078	5.35	2.80	1.32	0.22	0.37	1.38	2.95	1.32	2.64		1.00	1.54
_ c _ `	65V9H082	Reg	9/16	(2)	(136)		(33.5)	(5.6)	(9.5)	(35)	(75)	(33.5)	(67)		(25.4)	(39.1
2 May / 2 on Propure	03 7311002	riog		. ,	(/	· ,	(, , ,	(7	(/	(,	(-7	(33.3)	(- /		, ,	
3-Way / 2 on Pressure																
- A	65V4H073	Vee	1/4	0.062	4.96	2.38	1.69	0.22	0.37	1.38	2.95	1.00	2.01	1.12	1.00	1.02
B C -	65V4H083	Reg	1/4	(1,6)	(126)	(60.5)	(43)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)	(28.5)	(25.4)	(25.
	65V6H073	Vee	3/8	0.062	5.33	2.76	1.69	0.22	0.37	1.38	2.95	1.00	2.01	1.12	1.00	1.02
	65V6H083	Reg	3/0	(1,6)	(133.5)	(70.1)	(43)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)	(28.5)	(25.4)	(25.9
K	65V9H073	Vee	9/16	0.078	5.71	3.15	1.75	0.22	0.37	1.38	2.95	1.32	2.64	1.12	1.00	1.54
	65V9H083	Reg	9/10	(2)	(145)	(80)	(44.5)	(5.6)	(9.5)	(35)	(75)	(33.5)	(67)	(28.5)	(25.4)	(39.1
3-Way / 1 on Pressure																
. A	65V4H074	Vee		0.062	4.96	2.38	1.32	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
B	65V4H084	Reg	1/4	(1,6)	(126)	(60.5)	(33.5)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)		(25.4)	(25.9
	65V6H074	Vee	0.40	0.062	5.16	2.62	1.32	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
	65V6H084	Reg	3/8	(1,6)	(131)	(66.5)	(33.5)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)		(25.4)	(25.9
	65V9H074	Vee		0.078	5.35	2.80	1.32	0.22	0.37	1.38	2.95	1.32	2.64		1.00	1.54
<u> </u>	65V9H084	Reg	9/16	(2)	(136)		(33.5)	(5.6)	(9.5)	(35)	(75)	(33.5)	(67)		(25.4)	(39.
3-Way / 2-Stem Manifold																
<u> </u>	65V4H075	Vee		0.062	9.56	3.44	1.72	0.22	0.37	1.38	2.95	1.00	2.01	1.12	1.00	1.02
B C F	65V4H085	Reg	1/4	(1,6)		(87.4)		(5.6)	(9.5)	(35)	(75)	(25.4)	(51)	(28.5)	(25.4)	(25.9
	65V6H075	Vee		0.062		3.76	189	0.22	0.37		2.95	1.00	2.01	1.12	1.00	1.02
	65V6H085	Reg	3/8	(1,6)	(217.4)		(48)	(5.6)	(9.5)	1.38 (35)	(75)	(25.4)	(51)	(28.5)	(25.4)	(25.9
m Kalasalak 6 mm	65V9H075	Vee									2.95		2.64			
	65V9H085	Reg	9/16	0.078 (2)	9.25 (235)	4.13 (105)	2.07 (52.6)	0.22 (5.6)	0.37 (9.5)	1.38 (35)	2.95 (75)	1.32 (33.5)	(67)	1.12 (28.5)	1.00 (25.4)	1.54 (39.
2 Way Anglo / Ponlaceable		neg		(=)	(200)	(100)	(OZIO)	(0.0)	(0.0)	(00)	()	(00.0)	(01)	(20.0)	(2011)	(00.
2-Way Angle / Replaceable	t Stal															
A	65V4H872	Vee	1/4	0.062	5.16	2.62	1.32	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
, E	65V4H882	Reg	1/4	(1,6)	(131)	(66.5)	(33.5)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)		(25.4)	(25.9
	65V6H872	Vee	3/8	0.062	5.16	2.62	1.32	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
	65V6H882	Reg	3/0	(1,6)	(131)	(66.5)	(33.5)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)		(25.4)	(25.9
	65V9H872	Vee	9/16	0.078	5.16	2.62	1.32	0.22	0.37	1.38	2.95	1.32	2.64		1.00	1.54
	65V9H882	Reg	3/10	(2)	(131)	(66.5)	(33.5)	(5.6)	(9.5)	(35)	(75)	(33.5)	(67)		(25.4)	(39.

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

to 65,000 psi (4,500 bar)

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

High Pressure

Valve Actuators

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

High Pressure Fittings

» Pressures to 65,000 psi (4,500 bar)

High pressure fittings

Maximator high pressure fittings are designed to be used with the 36V and 65V series high pressure valves and high pressure tubing. All high 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		-		
1/4	65G4H	65C4H	65P4H	65TC4H
3/8	65G6H	65C6H	65P6H	65TC6H
9/16	65G9H	65C9H	65P9H	65TC9H

Connection Components

All high 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.

Fitting Pattern	Catalog Number	Connection Type	O.D. Tube	Orifice in.			Dimen	sions in. (r	nm)			Block Thick-
		,,,,,	Size in.	(mm)	A	В	C	D	E	F	G	ness
Elbow												
A F F	65L4H	4HF	1/4	0.094 (2.3)	0.89 (22.6)	1.02 (25.9)	1.54 (39.1)	0.63 (16)	0.46 (11.7)	0.65 (16.5)	0.22 (5.6)	1.02 (25.9)
Ø _G	65L6H	6HF	3/8	0.125 (3.2)	1.26 (32)	1.50 (38.1)	2.01 (51)	0.98 (24.9)	0.72 (18.3)	0.69 (17.5)	0.26 (6.6)	1.02 (25.9)
C	65L9H	9HF	9/16	0.188 (4.8)	1.89 (48)	1.89 (48)	2.64 (67)	1.10 (28)	0.83 (21.1)	0.94 (23.9)	0.33 (8.4)	1.54 (39.1)
Tee												
	65T4H	4HF	1/4	0.094 (2.3)	1.00 (25.4)	1.26 (32)	2.01 (51)	0.89 (22.6)	0.46 (11.7)	1.30 (33)	0.22 (5.6)	1.02 (25.9)
	65T6H	6HF	3/8	0.125 (3.2)	1.00 (25.4)	1.57 (39.9)	2.01 (51)	1.06 (26.9)	0.72 (18.3)	1.38 (35)	0.26 (6.6)	1.02 (25.9)
_ c _ A _	65T9H	9HF	9/16	0.188 (4.8)	1.32 (33.5)	2.13 (54.1)	2.64 (67)	1.38 (35)	0.83 (21.1)	1.89 (48)	0.33 (8.4)	1.54 (39.1)

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

Valve Actuators

to 21,000 psi (1,500 bar)

Ball Valves

Fitting Pattern	Catalog Number	Connection Type	O.D. Tube	Orifice in.			Dimen	sions in. (r	nm)			Block Thick-
	114111201	.,,,,	Size in.	(mm)	A	В	С	D	E	F	G	ness
Cross												
	65X4H	4HF	1/4	0.094 (2.3)	1.00 (25.4)	1.26 (32)	2.01 (51.1)	0.63 (16)	0.46 (11.7)	1.30 (33)	0.22 (5.6)	1.02 (25.9)
	65X6H	6HF	3/8	0.125 (3.2)	1.00 (25.4)	2.13 (54.1)	2.01 (51.1)	1.06 (27)	0.72 (18.3)	1.38 (35)	0.26 (6.6)	1.02 (25.9)
A C	65X9H	9HF	9/16	0.188 (4.8)	1.32 (33.5)	2.76 (70.1)	2.64 (67)	1.38 (35)	0.83 (21.1)	1.89 (48)	0.33 (8.4)	1.54 (39.1)
Straight Coupling / Union	Coupling											
Straight Coupling	65F4H	ALIE	1/4	0.094	1.38	1.06			Straight	Coupling		
	65UF4H	4HF	1/4	(2.3)	(35)	(27)			Union C	oupling		
A -	65F6H	6HF	3/8	0.125	1.77	1.06			Straight	Coupling		
Union Coupling	65UF6H	OI II	0,0	(3.2)	(45)	(27)			Union C	oupling		
A	65F9H	9HF	9/16	0.188	2.19	1.44			-	Coupling		
 - ^ - 	65UF9H			(4.8)	(55.6)	(36.6)			Union C	oupling		
Bulkhead Coupling												
E max.	65BF4H	4HF	1/4	0.094 (2.3)	1.89 (48)	1.06 (27)	1.06 (27)	0.94 (23.9)	0.16 (4)			
	65BF6H	6HF	3/8	0.125 (3.2)	2.38 (60.5)	1.44 (36.5)	1.44 (36.5)	1.12 (28.5)	0.35 (8.9)			
A	65BF9H	9HF	9/16	0.188 (4.8)	2.76 (70.1)	1.63 (41.3)	1.63 (41.3)	1.43 (36.3)	0.67 (17)			
Manifold Block												
c d	65MB64H	4HF	1/4	0.094 (2.3)	3.44 (87.5)	2.01 (51.1)	2.52 (64)	0.22 (5.5)	0.35 (8.9)	3.09 (78.5)	1.0 (25.5)	1.02 (25.9)
	65MB66H	6HF	3/8	0.125 (3.2)	3.76 (95.5)	2.01 (51.1)	2.66 (67.5)	0.26 (6.5)	0.35 (8.9)	3.41 (86.5)	1.0 (25.5)	1.02 (25.9)
F	65MB69H	9HF	9/16	0.188 (4.8)	5.12 (130)	2.64 (67)	3.74 (95)	0.33 (8.5)	0.37 (9.5)	4.74 (120.5)	1.32 (33.5)	1.54 (39.1)

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

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

Anti-Vibration Collet Gland Assembly

» Pressures to 65,000 psi (4,500 bar)

Anti-vibration collet gland assemblies

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 high 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 area.

The anti-vibration collet gland assembly, when tightened properly, compresses a split collet on the tube, providing the beneficial gripping action. All anti-vibration collet gland assemblies come with a Molybdenum Disulfide Coating to guard against galling of the stainless components.



Gland Pattern	Catalog Number	Part	O.D. Tubing Size in.	Dimensions	s in. (mm)
	Number		3126 111.	A	B (Hex.)
	65AVA4H	Complete Assembly		ĺ	
D	65AVFC4H	Flat Collar	4/4	0.83	0.62
B	65AVC4H	Slotted Collet	1/4	(21.1)	(15.7)
-	65AVG4H	Gland Nut			
!	65AVA6H	Complete Assembly			
	65AVFC6H	Flat Collar	0./0	1.16	0.81
	65AVC6H	Slotted Collet	3/8	(29.5)	(20.6)
	65AVG6H	Gland Nut			
	65AVA9H	Complete Assembly			
	65AVFC9H	Flat Collar	0/40	1.50	1.19
	65AVC9H	Slotted Collet	9/16	(38)	(30.2)
·	65AVG9H	Gland Nut			

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

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

Check Valves

» Pressures to 65,000 psi (4,500 bar)

O-Ring Check Valves

Maximator O-Ring Check Valves provide high quality directional flow control and tight shut-off 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. The opening pressure of the O-Ring Check Valves is approx. 20 psi (1.5 bar).

» Materials:

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

Spring: 300 series stainless steel

O-Ring: FKM "A" [-4°F to 392°F(-20°C to 200°C)]



Ball Check Valves

Maximator Ball Check Valves prevent reverse flow where bubble tight shut-off 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. The opening pressure of the Ball Check Valves is approx. 20 psi (1.5 bar).

» Materials:

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



Valve Pattern	Catalog Number	Connection Type	Pressure Rating psi (bar)	Orifice in. (mm)	Rated (Cv)	Dimen in. (mr A (Hex.)	
O-Ring Check Valves							
	650C4H	4HF	65,000 (4,500)	0.094 (2.3)	0.15	1.19 (30.2)	3.40 (86.4)
A	650C6H	6HF	65,000 (4,500)	0.125 (3.2)	0.28	1.19 (30.2)	3.81 (96.8)
B	650C9H	9HF	65,000 (4,500)	0.188 (4.8)	0.63	1.63 (41.4)	4.61 (117.1)
Ball Check Valves							
	65BC4H	4HF	65,000 (4,500)	0.094 (2.3)	0.15	1.19 (30.2)	3.40 (86.4)
	65BC6H	6HF	65,000 (4,500)	0.125 (3.2)	0.28	1.19 (30.2)	3.81 (96.8)
B	65BC9H	9HF	65,000 (4,500)	0.188 (4.8)	0.63	1.63 (41.4)	4.61 (117.1)

CAUTION: FREQUENT INSPECTIONS of 0-Rings are necessary to ensure proper service of the check valve. 0-Rings have shown satisfactory service life in testing, however different service conditions may lead to variations in cycle and shelf life. All dimensions are for reference only and 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

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

Line Filters

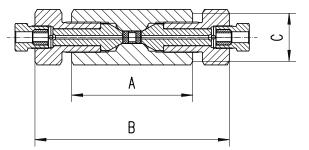
» Pressures to 65,000 psi (4,500 bar)

Dual-Disc Line Filters

Maximator Dual-Disc Line Fillters 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 from -423°F to 660°F (-252°C to 350°C). All Line Fillters come with glands and collars.

» Materials:

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

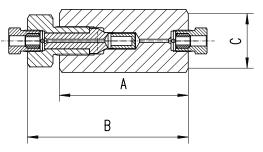


Cup-Type Line Filters

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 from -423°F to 660°F (-252°C to 350°C). All line filters come with glands and collars.

» Materials:

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



Catalog Number	Pressure	Orifice	Micron Size	Connection	Filter Element	Dimensions in. (mm)			
	Rating psi (bar)	in. (mm)		Туре	Area in.² (mm)²	Α	В	C (Hex.)	
Dual-Disc Line Filters									
65DF4H-5/8	65,000	0.004	5/8		0.07	2.00	4.8	1.10	
65DF4H-8/30	65,000 (4,500)	0.094 (2.3)	8/30	4HF	(50)	2.99 (76)	4.0 (121,9)	1.19 (30.2)	
65DF4H-30/56	(4,300)	(2.3)	30/56		(30)	(10)	(121,5)	(30.2)	
65DF6H-5/8	65,000	0.125	5/8		0.07	2.99	5.29	1.19	
65DF6H-8/30	(4,500)	(3.2)	8/30	6HF	(50)	2.99 (76)	5.29 (134.4)	(30.2)	
65DF6H-30/56	(4,500)	(3.2)	30/56		(30)	(10)	(134.4)	(30.2)	
65DF9H-5/8	65,000	0.188 (4.8)	5/8		0.15	3.39	5.75	1.44	
65DF9H-8/30	(4,500)		8/30	9HF	(9 5)	(86.1)	(146)	(36.6)	
65DF9H-30/56	(4,500)		30/56		(33)	(00.1)	(140)	(30.0)	
Cup-Type Line Filters									
65CF4H-5	65,000	0.094	5		0.82	3.39	4.25	1.44	
65CF4H-30	(4,500)	(2.3)	30	4HF	(530)	(86.1)	4.25 (108)	(36.6)	
65CF4H-56	(4,500)	(2.0)	56		(330)	(00.1)	(100)	(30.0)	
65CF6H-5	65,000	0.125	5		0.82	3.39	4.44	1.44	
65CF6H-30	(4,500)	(3.2)	30	6HF	(530)	(86.1)	(112.8)	(36.6)	
65CF6H-56	(4,000)	56 65,000 0.188 5 30		(000)	(0011)	(112.0)	(00.0)		
65CF9H-5	65,000		5		0.82	4.06	5.28	1.63	
65CF9H-30	(4,500)		30	9HF	(530)	(103.1)	(134.1)	(41.3)	
65CF9H-56	(4,300) (4.8) 56			(000)	(10011)	()	(4110)		

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

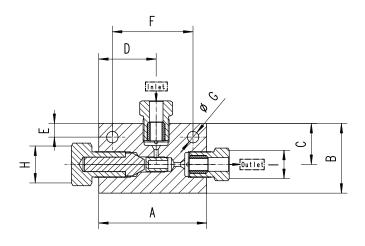
Valve Actuators

to 21,000 psi (1,500 bar)

Ball Valves

Angle Filters

» Pressures to 65,000 psi (4,500 bar)



Angel Filters

Maximator angle filters are used to filter gases or liquids in high pressure systems. The filter elements can be easily changed in-situ. The special design allows the exchange of the filter element without the need to first disassemble the filter in front of the tubing. Filter elements are made of sintered material with pore sizes of 5 μm , 30 μm or 56 μm . Filters are rated for temperatures from -423°F to 660°F (-252°C to 350°C). All angle filters come with glands and collars.

» Material:

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

Catalog Number	Pressure	Orifice	Connection	Micron	Filter Ele-				Dime	nsions i	n. (mm)				Block
	Rating psi (bar)	in. (mm)	Туре	Size	ment Areas in. ² (mm ²)	A	В	C	D	E	F	G	H (Hex.)	(Hex.)	thick- ness
Angle Filter															
65AF4H-5				5											
65AF4H-30	65,000 (4,500)	0.094 (2.3)	4H	30	0.82 (530)	2.80 (71)	2.01 (51)	1.18 (30)	1.65 (42)	0.39 (10)	2.01 (51)	0.34 (8.5)	1.06 (27)	0.63 (15.9)	1.02 (26)
65AF4H-56				56											
65AF6H-5				5											
65AF6H-30	65,000 (4,500)		6H	30	0.82 (530)	3.11 (79)	2.01 (51)			0.39 (10)	2.32 (59)	0.34 (8.5)	1.06 (27)	0.81 (20.7)	1.02 (26)
65AF6H-56				56											
65AF9H-5				5											
65AF9H-30	65,000 (4,500)	·	9H	30	0.82 (530)	3.23 (82)	2.64 (67)	1.32 (33.5)	1.65 (42)		2.44 (62)	0.34 (8.5)	1.06 (27)	1.19 (30.2)	1.54 (39)
65AF9H-56				56	(,										

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.

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

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

Medium Pressure

Valve Actuators

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

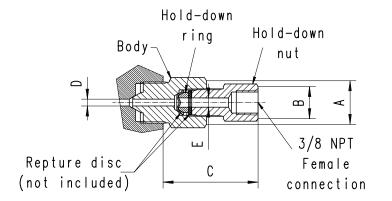
Safety Head Assembly

» Pressures to 65,000 psi (4,500 bar)

Safety head assemblies

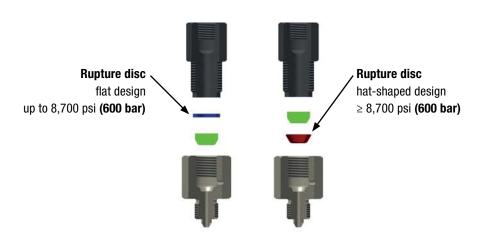
Maximator safety head assemblies are used to provide over-pressure protection to high pressure systems. These safety head assemblies are to be used with the appropriate 1/4" angular rupture disc listed in the chart below.





Safety Head Assembly	Fits Connection	Pressure Rating	Body Torque	orque Dimensions in. (mm)								
Catalog Number without Disc	Туре	psi (bar)	ft - Ibs. (Nm)	A (Hex.)	B (Hex.)	C (LG.)	D (I.D.)	E (I.D.)				
65SH4H	4HF	65,000 (4,500)	25 (35)	1.06 (26.9)	0.88 (22.4)	2.57 (65.3)	0.083 (2.31)	0.250 (6.3)				
65SH6H	6HF	65,000 (4,500)	50 (70)	1.06 (26.9)	0.88 (22.4)	2.54 (64.5)	0.125 (3.2)	0.250 (6.3)				
65SH9H	9HF	65,000 (4,500)	110 (150)	1.19 (30.2)	0.88 (22.4)	2.48 (63)	0.188 (4.7)	0.250 (6.3)				

All dimensions for reference only and are subject of 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)

Ball Valves

Rupture Discs

» Pressures to 65,000 psi (4,500 bar)

1/4" Rupture discs

1/4" angular and flat seat rupture discs are designed to be used with the safety head assemblies that are shown on page 18. Minimum rupture disc pressure ratings should be at least 110% of system operating pressure. The standard material is stainless steel. 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 (bar)
RD-1200	1,164 - 1,272 (80.3 - 87.7)
RD-1500	1,455 - 1,590 (99.7 - 109.7)
RD-1750	1,697 - 1,855 (117 - 127.9)
RD-2000	1,940 - 2,120 (133.8 - 146.2)
RD-2500	2,425 - 2,650 (167.2 - 182.8)
RD-3000	2,910 - 3,180 (200.7 - 219.3)
RD-3500	3,395 - 3,710 (234.1 - 255.9)
RD-4000	3,880 - 4,240 (267.6-292.4)
RD-4500	4,365 - 4,770 (301 - 329)
RD-5000	4,850 - 5,300 (334.5 - 365.5)
RD-5500	5,335 - 5,830 (367.9 - 402.1)
RD-6000	5,820 - 6,360 (401.4 - 438.6)
RD-6500	6,305 - 6,890 (434.8 - 475.2)

Catalog Number	Pressure range psi (bar)
RD-7000	6,790 - 7,420 (468.3 - 511.7)
RD-7500	7,275 - 7,950 (501.7 - 548.3)
RD-8000	7,760 - 8,480 (535.2 - 584.8)
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	9,700 - 10,600 (669 - 731)
RD-11000	10,670 -11,660 (735.9 - 804.1)
RD-12000	11,640 -12,720 (802.8 - 877.2)
RD-13000	12,610 - 13,780 (869.7 - 950.3)
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 (1,070.3 - 1,169.7)

Catalog Number	Pressure range psi (bar)
RD-17000	16,490 - 18,020 (1,137.2 - 1,242.8)
RD-18000	17,460 - 19,080 (1,204.1 - 1,315.9)
RD-19000	18,430 - 20,140 (1,271 - 1,389)
RD-20000	19,400 - 21,200 (1,337.9 - 1,462.1)
RD-21000	20,370 - 22,260 (1,404.8 - 1,535.2)
RD-22000	21,340 - 23,320 (1,471.7 - 1,608.3)
RD-23000	22,310 - 24,380 (1,538.6 - 1,681.4)
RD-24000	23,280 - 25,440 (1,605.5 - 1,754.5)
RD-25000	24,250 - 26,500 (1,672.4 - 1,827.6)
RD-26000	25,220 - 27,560 (1,739.3 - 1,900.7)
RD-27000	26,190 - 28,620 (1,806.2 - 1,973.8)
RD-28000	27,160 - 29,680 (1,873.1 - 2,046.9)
RD-29000	28,130 - 30,740 (1,940 - 2,120)

Catalog Number	Pressure range psi (bar)
RD-30000	29,100 -31,800 (2,006.9 - 2,193.1)
RD-32500	31,525 - 34,450 (2,174.1 - 2,375.9)
RD-35000	33,950 - 37,100 (2,341.4 - 2,558.6)
RD-37500	36,375 - 39,750 (2,508.6 - 2,741.4)
RD-40000	38,880 - 42,400 (2,681.4 - 2,924.1)
RD-42500	41,255 - 45,050 (2,845.2 - 3,106.9)
RD-45000	43,650 - 47,700 (3,010.3 - 3,289.7)
RD-47500	46,075 - 50,350 (3,177.6 - 3,472.4)
RD-50000	48,500 - 53,000 (3,344.8 - 3,655.2)
RD-55000	53,350 - 58,300 (3,679.3 - 4,020.7)
RD-60000	58,200 - 63,600 (4,013.8 - 4,386.2)
RD-67500	65,475 - 71,550 (4,515.5 - 4,934.5)
RD-70000	67,900 - 74,200 (4,682.8 - 5,117.2)

Maximator:

Maximum Pressure.

Typ: RD-22500 Torque:
110 Nm

Pressure range
21825 - 23850 psi
1505,2 - 1644,8 bar

Mat.: 1.4301

Serie: 1552.081012

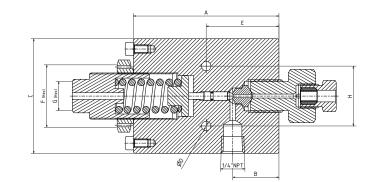
Rupture Discs are individually packed and marked type plate.



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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All relief valves are ATEX (CE Ex II 2D/2G IIC c TX) approved, have a 1/4" NPT relief connection, are equipped with a replaceable seat and come with glands and collars.



Materials:

Body, double cone: 316 stainless steel Spring: 300 series stainless steel

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

Catalog Number	Pressure	Pressure Range	Orifice	Connection	Dimensions in. (mm)							Block	
	Rating psi (bar)	min./max. psi (bar)	in. (mm)	Туре	A	В	С	D	E	F (Hex.)	G (Hex.)	Н	thick- ness
36RV4H	36,000 (2,500)	14,500 / 36,000 (1.000 / 2,500)	0,08 (2.0)	4HF	3.35 (85)	1.06 (27)	2.64 (67)	0.28 (5.5)	1.67 (42.5)	1.44 (36.5)	0.67 (17)	1.38 (35)	1.54 (39)
36RV6H	36,000 (2,500)	14,500 / 36,000 (1.000 / 2,500)	0,08 (2.0)	6HF	3.35 (85)	1.06 (27)	2.64 (67)	0.28 (5.5)	1.67 (42.5)	1.44 (36.5)	0.67 (17)	1.38 (35)	1.54 (39)
65RV4H	65,000 (4,500)	29,000 / 65,000 (2,000 / 4,500)	0,06 (1.5)	4HF	3.35 (85)	1.06 (27)	2.64 (67)	0.28 (5.5)	1.67 (42.5)	1.44 (36.5)	0.67 (17)	1.38 (35)	1.54 (39)
65RV6H	65,000 (4,500)	29,000 / 65,000 (2,000 / 4,500)	0,06 (1.5)	6HF	3.35 (85)	1.06 (27)	2.64 (67)	0.28 (5.5)	1.67 (42.5)	1.44 (36.5)	0.67 (17)	1.38 (35)	1.54 (39)

All dimensions for reference only and are subject of change

to 22,500 psi (1,550 bar)

to 65,000 psi (4,500 bar)

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

High Pressure

Valve Actuators

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

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

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

Medium Pressure

Valve Actuators

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

High Pressure Tubing

» Pressures to 65,000 psi (4,500 bar)

High Pressure Tubing

Maximator offers a line of cold drawn thick wall tubing, with flow areas to compliment the high 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 high 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. (mm)	Tolerance O.D in. (mm)
1/4 (6.35)	0.248 / 0.243 (6.299 / 6.172)
3/8 (9.53)	0.370 / 0.365 (9.398 / 9.271)
9/16 (14.29)	0.557 / 0.552 (14.147 / 14.021)

Catalog Number	Tube	Fits Tube Size in. (mm)			Working Pręssure psi (bar)						
	Material	Material Connection Type				200°F (93°C)	400°F (204°C)	600°F (315°C)	800°F (426°C)		
65TU4H-316	316SS	4HF	1/4	0.083	65,000	58,500	53,950	49,400	46,800		
65TU4H-304	304SS	4111	(6.35)	(2.11)	(4,500)	(4,050)	(3,750)	(3,400)	(3,250)		
65TU6H-316	316SS	6HF	3/8	0.125	65,000	58,500	53,950	49,400	46,800		
65TU6H-304	304SS	Offi	(9.53)	(3.18)	(4,500)	(4,050)	(3,750)	(3,400)	(3,250)		
65TU9H-316	316SS	9HF	9/16	0.188	65,000	58,500	53,950	49,400	46,800		
65TU9H-304	304SS	JIII	(14.29)	(4.77)	(4,500)	(4,050)	(3,750)	(3,400)	(3,250)		

All dimensions for reference only and are subject of change.

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

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

Medium Pressure

Valve Actuators

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

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Coned and Threaded Nipples

» Pressures to 65,000 psi (4,500 bar)

Coned and threaded nipples

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

The coned and threaded high pressure tube nipples are available in 316 stainless steel. See chart below for ordering information.

Special length coned and threaded nipples are available upon request. Consult Maximator for availability and price.



Catalog Numbers are 316 Stainless Steel material Length in. (mm)									e Size mm)	Working Pressure	
2.75" (69.85)	3" (76.2)	4" (101.6)	6" (152.4)	8" (203.2)	10" (254)	12" (304.8)	nection Type	0.D.	I.D.	at 100°F psi (bar)	
65N4H-2.75-316	65N4H-3-316	65N4H-4-316	65N4H-6-316	65N4H-8-316	65N4H-10-316	65N4H-12-316	4HF	1/4	0.083 (2.11)	65,000 (4,500)	
	65N6H-3-316	65N6H-4-316	65N6H-6-316	65N6H-8-316	65N6H-10-316	65N6H-12-316	6HF	3/8	0.125 (3.17)	65,000 (4,500)	
		65N9H-4-316	65N9H-6-316	65N9H-8-316	65N9H-10-316	65N9H-12-316	9HF	9/16	0.188 (4.77)	65,000 (4,500)	

Standard nipples are not supplied with glands and collars, see Fittings on page 6 for these components. See adjacent Tubing page 21, for pressure/temperature rating chart.

All dimensions are for reference only and subject to change.