







High Pressure Valves, Fittings and Tubing Pressures to 65,000 psi

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.
- ▶ 316SS wetted parts with a 17-4 PH stem provides 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.

MAXPRO offers a complete line of high pressure 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

Maxpro Technologies, Inc.

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High Pressure Valves

Pressures to 36,000 psi





Ordering Information

Typical catalog number: 36V4H071

36V	4H	07	1	OPTIONS
Valve Series	O.D. Tube Size	Stem Type	Body Pattern	Extreme temperature
36V	4H - 1/4" 6H - 3/8" 9H - 9/16"	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. High temperature packing and/or extended stuffing box are available for service from -423°F to 1200°F by adding the following suffixes to catalog order number.

- **TG** standard valve with teflon glass packing to 600°F.
- **GY** standard valve with graphite braided yarn packing to 800°F.
- **HT** extended stuffing box valve with graphite braided yarn packing to 1200°F.
- **B** standard valve with cryogenic trim materials and teflon packing to -100° F.
- **LT** entended stuffing box valve with teflon packing and cryogenic trim materials to -423° F.

Repair Kits

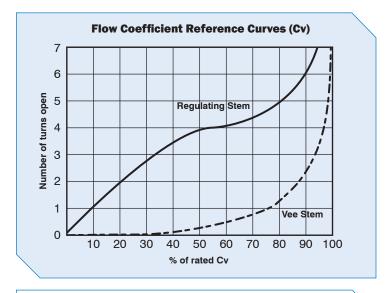
Consult your **MAXPRO** representative for repair kits and valve bodies. Refer to the Tools and Installation section for proper maintenance procedures.

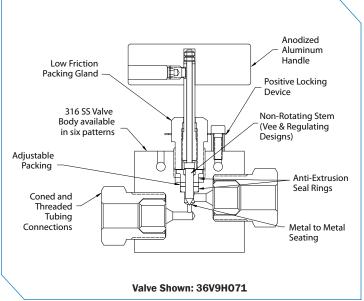
MAXIMATOR high pressure valves with metal to metal seats have a high level of safety and reliability under adverse operating conditions. These valves may be used both with gases and liquids.

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

O.D. Size (in.)	Connection Type	Orifice Size (in.)	Rated Cv*	Pressure/Temp. Rating (psi @ R.T.)**
1/4	4HF	0.094	0.12	36,000
3/8	6HF	0.125	0.23	36,000
9/16	9HF	0.125	0.33	36,000

- 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.





All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.

MT R4 0215





	Catalog	Stem	0.D.	Orifice				D	imensi	ons (in	.)				Valve	Block
Valve Pattern	Catalog Number	Type	Tube (in.)	(in.)	Α	В	С	D	Е	F	Н	- 1	J	K	Panel Hole	Thick- ness
2-Way Straight																
A	36V4H071	Vee														
B	36V4H081	Reg	1 /4	0.094	4.96	2.01	1.50	0.22	0.37	1.38	2.95	1.12	2.01		1.00	1.02
	36V6H071	Vee	2.	0.405	4.00	0.04	4.50		0.07	4.00	0.05	4.40	0.04		1.00	4.00
	36V6H081	Reg	3/8	0.125	4.96	2.01	1.50	0.22	0.37	1.38	2.95	1.12	2.01		1.00	1.02
	36V9H071	Vee	97	0.105	5.00	2.44	1 56	0.22	0.27	1 20	2.05	1 10	2.64		1.00	1.54
	36V9H081	Reg	9/16	0.125	5.00	2.44	1.56	0.22	0.37	1.38	2.95	1.12	2.04		1.00	1.54
2-Way Angle													l			
A B	36V4H072	Vee	1/4	0.094	4.96	2.01	1.12	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
C O .	36V4H082	Reg	, .													
	36V6H072	Vee	3/8	0.125	4.78	2.20	1.10	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
	36V6H082	Reg														
E	36V9H072 36V9H082	Vee	9/16	0.125	5.00	2.44	1.12	0.22	0.37	1.38	2.95	1.32	2.64		1.00	1.54
3-Way / 2 on Pressure	007311002	neg														
A	36V4H073	Vee														
B C	36V4H083	Reg	1/4	0.094	4.69	2.13	1.50	0.22	0.37	1.38	2.95	1.00	2.01	1.12	1.00	1.02
9, 15 P	36V6H073	Vee	0.													
	36V6H083	Reg	3/8	0.125	5.08	2.50	1.50	0.22	0.37	1.38	2.95	1.00	2.01	1.12	1.00	1.02
	36V9H073	Vee	9/16	0.125	5.45	2.87	1.56	0.22	0.37	1.38	2.95	1.32	2.64	1.12	1.00	1.54
K	36V9H083	Reg	716	0.123	3.43	2.01	1.50	0.22	0.57	1.56	2.90	1.52	2.04	1.12	1.00	1.54
3-Way / 1 on Pressure			I													
A	36V4H074	Vee	1/4	0.094	4.96	2.01	1.12	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
0, 1	36V4H084	Reg														
	36V6H074	Vee	3/8	0.125	4.76	2.20	1.12	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
	36V9H074	Reg														
Ċ C	36V9H084	Reg	9/16	0.125	5.00	2.44	1.12	0.22	0.37	1.38	2.95	1.32	2.64		1.00	1.54
3-Way / 2-Stem Manifold	30.011004															
Α	36V4H075	Vee	4 :	0.65	0.55	0.5-	4 = :	0.55	0.5-	4.55	0.6-	4.5.5	0.5:	4	4.65	4.65
B C	36V4H085	Reg	1/4	0.094	8.23	3.07	1.54	0.22	0.37	1.38	2.95	1.00	2.01	1.12	1.00	1.02
	36V6H075	Vee	3/8	0.125	8.39	3.25	1.61	0.22	0.37	1.38	2.95	1.00	2.01	1.12	1.00	1.02
	36V6H085	Reg	/8	5.125	0.00	0.20	1.01	V.22	0.01	1.50	2.55	1.00	2.01		1.00	1.02
	36V9H075	Vee	9/16	0.125	8.90	3.74	1.88	0.22	0.37	1.38	2.95	1.32	2.64	1.12	1.00	1.54
K	36V9H085	Reg	, _0					_								
2-Way Angle / Replaceab																
K A	36V4H872	Vee	1/4	0.094	4.96	2.38	1.12	0.22	0.37	1.38	2.95	1.00	2.01	0.90	1.00	1.02
	36V4H882	Reg														
	36V6H872	Vee	3/8	0.125	4.96	2.38	1.12	0.22	0.37	1.38	2.95	1.00	2.01	1.15	1.00	1.02
	36V6H882 36V9H872	Reg														
-E	36V9H882	Reg	9/16	0.125	5.00	2.44	1.18	0.22	0.37	1.38	2.95	1.32	2.64	1.48	1.00	1.54
	004311002	neg								G-	Panel m	ounting	screw th	read siz	e 10-24	LINC

High Pressure Valves

Pressures to 65,000 psi





Ordering Information

Typical catalog number: 65V4H071

65V	4H	07	1	OPTIONS
Valve Series	O.D. Tube Size	Stem Type	Body Pattern	Extreme temperature
65V	4H - 1/4" 6H - 3/8" 9H - 9/16"	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

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- TG standard valve with teflon glass packing to 600°F.
- GY standard valve with graphite braided yarn packing to 800°F.
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- LT entended stuffing box valve with teflon packing and cryogenic trim materials to -423°F.

Repair Kits

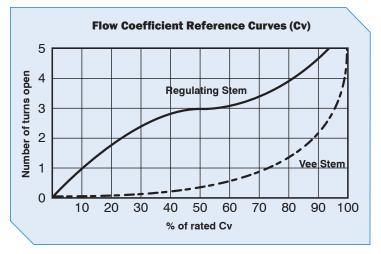
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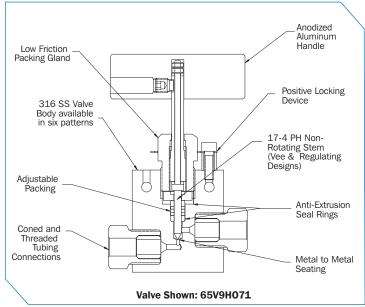
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Traceability is ensured through extensively documented data (batch number, maximum pressure, material number, type designation). All high pressure valves include glands and collars.

O.D. Size (in.)	Connection Type	Orifice Size (in.)	Rated Cv*	Pressure/Temp. Rating (psi @ R.T.)**
1/4	4HF	0.062	0.08	65,000
3/8	6HF	0.062	0.09	65,000
9/16	9HF	0.078	0.14	65,000

- 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.









2-Way Straight	Catalog	Stem							umensi	ions (in	_)				Valve	Block
O Way Stypish	Number	Type	O.D. Tube (in.)	Orifice (in.)	A	В	С	D	E	F	-,	ı	J	K		Thick- ness
TOWN VENTER TO THE			, ,													
	65V4H071	Vee														
A B	65V4H081		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
C - C - C - C - C - C - C - C - C - C -		Reg														
	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
	65V6H081	Reg														
	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														
2-Way Angle			l					l	ll	I	l	ll	I			I
A B	65V4H072	Vee	1/4	0.062	4.96	2.38	1.34	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
E-+ - (D. FISS	65V4H082	Reg														
	65V6H072 65V6H082	Vee Reg	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
	65V9H072	Vee														
c	65V9H082	Reg	9/16	0.078	5.35	2.80	1.32	0.22	0.37	1.38	2.95	1.32	2.64		1.00	1.54
3-Way / 2 on Pressure																
A	65V4H073	Vee	1,	0.000	4.00	0.00	4.00	0.00	0.07	4.00	0.05	4.00	0.04	4.00	4.00	4.00
C	65V4H083	Reg	1/4	0.062	4.96	2.38	1.69	0.22	0.37	1.38	2.95	1.00	2.01	1.32	1.00	1.02
	65V6H073	Vee	3/8	0.062	5.31	2.76	1.69	0.22	0.37	1.38	2.95	1.00	2.01	1.32	1.00	1.02
	65V6H083	Reg	78	0.002	5.51	2.70	1.00	0.22	0.57	1.00	2.55	1.00	2.01	1.02	1.00	1.02
-E- 0	65V9H073	Vee	9/16	0.078	5.71	3.15	1.75	0.22	0.37	1.38	2.95	1.32	2.64	1.30	1.00	1.54
K	65V9H083	Reg	,													
3-Way / 1 on Pressure																
A B	65V4H074 65V4H084	Vee	1/4	0.062	4.96	2.38	1.32	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
	65V6H074	Reg														
	65V6H084	Reg	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
	65V9H074	Vee														
C G	65V9H084	Reg	9/16	0.078	5.35	2.80	1.32	0.22	0.37	1.38	2.95	1.32	2.64		1.00	1.54
3-Way / 2-Stem Manifold																
Α	65V4H075	Vee	1/4	0.062	8.56	3.44	1.72	0.22	0.37	1.38	2.95	1.00	2.01	1.32	1.00	1.02
BCC	65V4H085	Reg	7/4	0.002	0.00	J.44	⊥.1∠	0.22	0.31	1.30	2.30	1.00	2.01	⊥.3∠	1.00	1.02
	65V6H075	Vee	3/8	0.062	8.56	3.76	1.89	0.22	0.37	1.38	2.95	1.00	2.01	1.32	1.00	1.02
	65V6H085	Reg	,3										_			
K K S	65V9H075	Vee	9/16	0.078	9.25	4.13	2.07	0.22	0.37	1.38	2.95	1.32	2.64	1.30	1.00	1.54
2-Way Angle / Replaceable	65V9H085	Reg														
z-way Aligie / Replaceable	65V4H872	Vee														
B B	65V4H882	Reg	1/4	0.062	5.16	2.62	1.32	0.22	0.37	1.38	2.95	1.00	2.01	0.83	1.00	1.02
E - U	65V6H872	Vee														
	65V6H882	Reg	3/8	0.062	5.16	2.62	1.32	0.22	0.37	1.38	2.95	1.00	2.01	1.07	1.00	1.02
	65V9H872	Vee	97	0.070	E 40	2.60	1 20	0.00	0.27	1 20	2.05	1 20	0.64	1 17	1.00	1 = 4
<u>c</u> `	65V9H882	Reg	9/16	0.078	5.16	2.62	1.32	0.22	0.37	1.38	2.95	1.32	2.64	1.47	1.00	1.54

G - Panel Mounting Screw Thread Size 10-24 UNC. All dimensions are for reference only and subject to change.

High Pressure Fittings

Pressures to 65,000 psi



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	65ТС6Н
9/16	65 G 9H	65 C 9H	65P9H	65ТС9Н



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.

	Catalog	Connection	O.D. Tube	Orifice			Dim	ensions	(in.)			Block
Fitting Pattern	Number	Type	Size (in.)	(in.)	A	В	С	D	E	F	G	Thick- ness
Elbow												
A F	65L4H	4HF	1/4	0.094	0.89	1.02	1.54	0.63	0.46	0.65	0.22	1.02
	65L6H	6HF	3/8	0.125	1.26	1.50	2.01	0.98	0.72	0.69	0.26	1.02
	65L9H	9HF	9/16	0.188	1.89	1.89	2.64	1.10	0.83	0.94	0.33	1.54
Tee	Tee											
F	65Т4Н	4HF	1/4	0.094	1.00	1.26	2.01	0.89	0.46	1.30	0.22	1.02
0	65Т6Н	6HF	3/8	0.125	1.00	1.57	2.01	1.06	0.72	1.38	0.26	1.02
C	65Т9Н	9HF	9/16	0.188	1.32	2.13	2.64	1.38	0.83	1.89	0.33	1.54
Cross												
G F	65X4H	4HF	1/4	0.094	1.00	1.26	2.01	0.63	0.46	1.30	0.22	1.02
	65X6H	6HF	3/8	0.125	1.00	2.13	2.01	1.06	0.72	1.38	0.26	1.02
A	65Х9Н	9HF	9/16	0.188	1.32	2.76	2.64	1.38	0.83	1.89	0.33	1.54
Straight Coupling / U	<u> </u>	g										
	65F4H 65UF4H	4HF	1/4	0.094	1.38	1.06			Union	t Couplin Coupling	,	
	65F6H 65UF6H	6HF	3/8	0.125	1.77	1.06			Union	t Couplin Coupling		
_ A _	65F9H 65UF9H	9HF	9/16	0.188	2.19	1.44				t Couplin Coupling		
Bulkhead Coupling												
E max.	65BF4H	4HF	1/4	0.094	1.89	1.06	1.06	0.94	0.25			
m U	65BF6H	6HF	3/8	0.125	2.38	1.44	1.44	1.18	0.35			
A	65ВF9Н	9HF	9/16	0.188	2.76	1.63	1.63	1.43	0.67			

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





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	Dimensi	ons (in.)
	diana i accom	outuing Humber	T dit	Size (in.)	Α	B (Hex.)
		65AVA4H	Complete Assembly			
		65AVFC4H	Flat Collar	1/4	0.83	0.62
		65AVC4H	Slotted Collet	74	0.83	0.02
A		65AVG4H	Gland Nut			
	4	65AVA6H	Complete Assembly			
			65AVFC6H	Flat Collar	3/8	1.16
▼		65AVC6H	Slotted Collet	9/8	1.10	0.01
		65AVG6H	Gland Nut			
	B	65AVA9H	Complete Assembly			
		65AVFC9H	Flat Collar	97	4.50	4.40
		65AVC9H	Slotted Collet	9/16	1.50	1.19
		65AVG9H	Gland Nut			

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

See page 2 in the Technical Section for determining operating pressures above room temperature.

High Pressure TubingPressures to 65,000 psi



MAXPRO 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.

MAXPRO also offers this tubing with the "Autofrettage" process. Autofrettage is the practice of subjecting the internal bore of the tubing to a pressure sufficiently high enough to plastically deform the bore, resulting in a residual compressive stress once the pressure is released. Autofrettage produces improved fatigue life of the tube, important in waterjet cutting and other production environments, reducing down time.

Add suffix -AF to tubing catalog number to specify Autofrettage process.

Tubing Tolerances

Normal Tubing Size (in.)	Tolerance O.D. (in.)	
1/4	0.248 / 0.243	
3/8	0.370 / 0.365	
9/16	0.557 / 0.552	



Catalog Number	Tube	Fits Connection	Tube Size (in.)		Working Pressure (psi)							
Oatalog Nullibel	Material	Туре	0.D.	I.D.	-325 to 100°F	200°F	400°F	600°F	800°F			
65TU4H-316	316SS	4HF	1/4	0.083	65,000	58,500	53.950	49,400	46,800			
65TU4H-304	304SS	400	74	0.063	65,000	38,300	33,330	49,400	40,000			
65TU6H-316	316SS	6HF	3/8	0.125	65,000	58,500	53,950	49,400	46,800			
65TU6H-304	304SS	Orn	7/8	0.123	00,000	30,300	33,330	40,400	40,000			
65TU9H-316	316SS	9HF	⁹ /16	0.188	65,000	58,500	53,950	49,400	46,800			
65ТИ9Н-304	304SS	9HF	7/16	0.100	03,000	36,300	55,950	49,400	40,000			

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







MAXPRO 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 **MAXPRO** for availability and price.

	Ca	Fits	Tube S	ize (in.)	Working Pres-					
2.75" Length	3" Length	4" Length	6" Length	8" Length	10" Length	12" Length	Connection Type	0.D.	I.D.	sure at 100°F (psi)
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	65,000
	65N6H-3-316	65N6H-4-316	65N6H-6-316	65N6H-8-316	65N6H-10-316	65N6H-12-316	6HF	3/8	0.125	65,000
		65N9H-4-316	65N9H-6-316	65N9H-8-316	65N9H-10-316	65N9H-12-316	9HF	9/16	0.188	65,000

Standard nipples are not supplied with glands and collars, see Fittings on page 6 for these components.

See adjacent Tubing page 8, for pressure/temperature rating chart.

All dimensions are for reference only and subject to change.





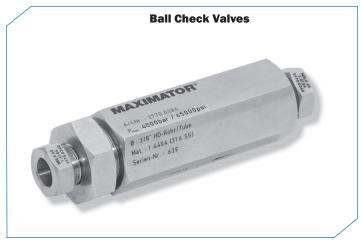
O-Ring Check Valves

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)*



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*. 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 Ball and spring: 300 series stainless steel

Valve Pattern	Catalog Number	Pressure	O.D. Tube	Connec-	Orifice	Rated	Dimensi	ons (in.)
valve Pattern	Catalog Nulliber	Rating (psi)	(in.)	tion Type	(in.)	(Cv)	A (Hex.)	В
O-Ring Check Valves								
	650C4H	65,000	1/4	4HF	0.094	0.15	1.19	3.40
4	650С6Н	65,000	3/8	6HF	0.125	0.28	1.19	3.81
Flow —	650С9Н	65,000	9/16	9HF	0.188	0.63	1.63	4.61
Ball Check Valves								
	65 BC 4H	65,000	1/4	4HF	0.094	0.15	1.19	3.40
	65 BC 6H	65,000	3/8	6HF	0.125	0.28	1.19	3.81
Flow —	65ВС9Н	65,000	9/16	9HF	0.188	0.63	1.63	4.61

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.

 $[\]star$ See page 2 in the Technical Section for determining operating pressures above room temperature.



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*. All line filters come with glands and collars.

Materials

Body, cover, cover gland: 316 series stainless steel

Element: 300 series stainless steel

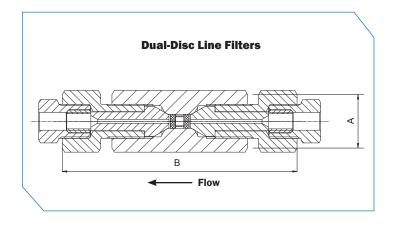
Cup-Type Line Filters

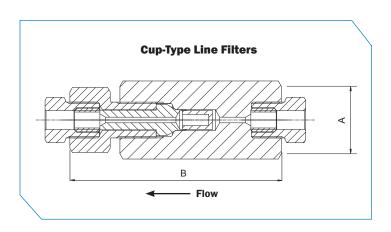
MAXIMATOR cup-type line filters are used when maximum filtration surface area and a single micron size element is preferred. This design increases the filter area as much as 6 times the area of the disc type filter, and will permit higher flow rates with a lower pressure drop, and longer intervals between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

Materials:

Body, cover, cover gland: 316 series stainless steel

Element: 300 series stainless steel





Oatalas Number	Pressure	O.D. Tube	Connection	Orifice (in)	Micron Size	Filter Element	Dimensions (in.)		
Catalog Number	Rating (psi)	(in.)	Туре	Orifice (in.)	Wilcron Size	Area (in.²)	A (Hex.)	В	
Dual-Disc Line Filte	ers								
65DF4H-5/8					5/8				
65DF4H-8/30	65,000	1/4	4HF	0.094	8/30	0.07	1.19	4.81	
65DF4H-30/56					30/56				
65DF6H-5/8					5/8				
65DF6H-8/30	65,000	3/8	6HF	0.125	8/30	0.07	1.19	5.18	
65DF6H-30/56					30/56				
65DF9H-5/8					5/8				
65DF9H-8/30	65,000	9/16	9HF	0.188	8/30	0.15	1.44	5.73	
65DF9H-30/56					30/56				

Cup-Type Line Filte	rs							
65CF4H-5					5			
65CF4H-30	65,000	1/4	4HF	0.094	30	0.82	1.44	4.25
65CF4H-56					56			
65CF6H-5					5			
65CF6H-30	65,000	3/8	6HF	0.125	30	0.82	1.44	4.41
65CF6H-56					56			
65CF9H-5					5			
65CF9H-30	65,000	9/16	9HF	0.188	30	0.82	1.63	5.28
65CF9H-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. *See page 2 in the Technical Section for determining operating pressures above room temperature.

Angle Filters Pressures to 65,000 psi



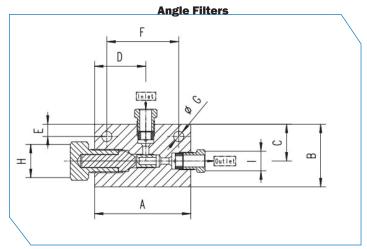
Angle Filters

MAXIMATOR angle filters are used to filter gases or liquids in high pressure systems. The filter elements can be easily changed. 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 μ m, 30 μ m or 56 μ m. Filters are rated for temperatures -423 °F to 660 °F. All angle filters come with glands and collars.

Materials

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

Element: 316 stainless steel

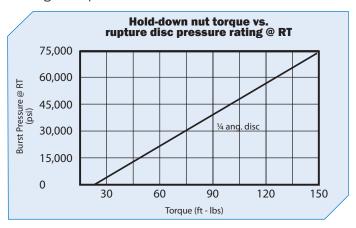


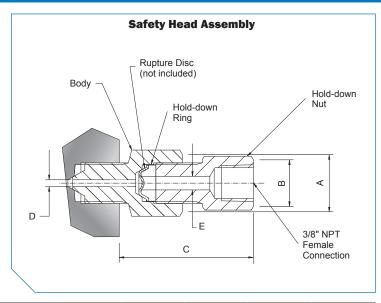
	Pressure	Orifice	Con-	Micron	Filter Micron Element		Dimensions (in.)								Block	
Catalog Number	Rating psi	inches	nection Type	Size	Areas in ²	A	В	С	D	Е	F	G	H (Hex)	I (Hex)	Thick- ness	
65AF4M-5				5												
65AF4M-30	65,000	0.094	4H	30	0.82	2.8	2.01	1.18	1.65	0.39	2.01	0.34	1.06	0.63	1.02	
65AF4M-56				56	56											
65AF6M-5				5												
65AF6M-30	65,000	0.125	6H	30	0.82	3.11	2.01	1.18	1.65	0.39	2.32	0.34	1.06	0.81	1.02	
65AF6M-56				56												
65AF9M-5				5												
65AF9M-30	65,000	0.188	9H	30	0.82	3.23	2.64	1.32	1.65	0.39	2.44	0.34	1.06	1.19	1.54	
65AF9M-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.



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 ½" angular rupture disc listed in the chart below.





Safety Head Assembly		0.D.	D	Draceure Body Terrane		Dimensions (in.)							
Catalog Number without Disc	Fits Connection Type	Tube (in.)		Body Torque (ft - lbs.)	A (Hex.)	B (Hex.)	C (LG.)	D (I.D.)	E (I.D.)				
65SH4H	4HF	1/4	65,000	25	1.06	0.88	2.56	0.083	0.250				
65SH6H	6HF	3/8	65,000	50	1.06	0.88	2.58	0.125	0.250				
65\$Н9Н	9HF	9/16	65,000	110	1.19	0.88	2.47	0.188	0.250				

See page 2 in the Technical Section for determining operating pressures above room temperature.

All dimensions are for reference only and are subject to change

1/4" Angular Rupture Discs



 $^1\!\!/_4$ " angular seat rupture discs are designed to be used with the safety head assemblies that are shown above. Minimum rupture disc pressure ratings should be at least 110% of system operating pressure. The standard rupture disc material is Inconel. The pressure ranges indicated in the table below are at room temperature (72 $^\circ$ F). Other materials and pressure ranges are available upon request.

Catalog Number	Pressure range (psi)
RD-1200	1,164 - 1,272
RD-1500	1,455 - 1,590
RD-1750	1,697 - 1,855
RD-2000	1,940 - 2,120
RD-2500	2,425 - 2,650
RD-3000	2,910 - 3,180
RD-3500	3,395 - 3,710
RD-4000	3,880 - 4,240
RD-4500	4,365 - 4,770
RD-5000	4,850 - 5,300
RD-5500	5,335 - 5,830
RD-6000	5,820 - 6,360
RD-6500	6,305 - 6,890

Catalog Number	Pressure range (psi)
DD 7000	0.700 7.400
RD-7000	6,790 - 7,420
RD-7500	7,275 - 7,950
RD-8000	7,760 - 8,480
RD-8500	8,245 - 9,010
RD-9000	8,730 - 9,540
RD-9500	9,215 - 10,070
RD-10000	9,700 - 10,600
RD-11000	10,670 -11,660
RD-12000	11,640 - 12,720
RD-13000	12,610 - 13,780
RD-14000	13,580 - 14,840
RD-15000	14,550 - 15,900
RD-16000	15,520 - 16,960

Catalog Number	Pressure range (psi)
RD-17000	16,490 - 18,020
RD-18000	17,460 - 19,080
RD-19000	18,430 - 20,140
RD-20000	19,400 - 21,200
RD-21000	20,370 - 22,260
RD-22000	21,340 - 23,320
RD-23000	22,310 - 24,380
RD-24000	23,280 - 25,440
RD-25000	24,250 - 26,500
RD-26000	25,220 - 27,560
RD-27000	26,190 - 28,620
RD-28000	27,160 - 29,680
RD-29000	28,130 - 30,740

Catalog Number	Pressure range (psi)
RD-30000	29,100 - 31,800
RD-32500	31,525 - 34,450
RD-35000	33,950 - 37,100
RD-37500	36,375 - 39,750
RD-40000	38,880 - 42,400
RD-42500	41,255 - 45,050
RD-45000	43,650 - 47,700
RD-47500	46,075 - 50,350
RD-50000	48,500 - 53,000
RD-55000	53,350 - 58,300
RD-60000	58,200 - 63,600
RD-67500	65,475 - 71,550
RD-70000	67,900 - 74,200