



Ultra High Pressure Valves, Fittings and Tubing Pressures to 152,000 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.

Ultra 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 and 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.
- ▶ Three different valve body patterns, with vee type stem tip.

MAXPRO offers a complete line of ultra high pressure valves, fittings and tubing. They come standard with the 5/16" ultra high pressure coned and threaded connection.

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

Ultra High Pressure Index

Valves rated to 101,000 psi	2
Fittings rated to 152,000 psi	3
Tubing & Coned and Threaded Nipples	4

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MG 1S 3M R0 0407



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Ultra High Pressure Valves

Pressures to 101,000 psi



Ordering Information

Typical catalog number: **101V5U071**

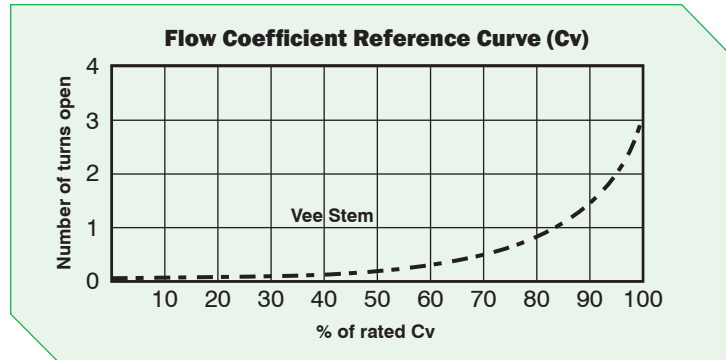
101V	5U	07	1
Valve Series	O.D. Tube Size	Stem Type	Body Pattern
101V	5U - 5/16"	07 - VEE stem	1 - two-way straight 2 - two-way angle 3 - three-way, two on pressure

O.D. Size (in.)	Connection Type	Orifice Size (in.)	Rated Cv*	Pressure/Temp. Rating (psi @ R.T.)**
5/16	5UF	0.062	0.09	101,000

* 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.



Temperature Ranges

Standard valves are supplied with Teflon/Carbon packing and may be operated to 450°F. Consult **MAXPRO** for higher temperature packing ratings.

Valve Pattern	Catalog Number	Stem type	O.D. Tube (in.)	Orifice (in.)	Dimensions (in.)											Valve Panel Hole	Block Thickness
					A	B	C	D	E	F	H	I	J	K			
2-Way Straight																	
	1015U071	Vee	5/16	0.062	5.43	2.44	1.75	0.33	0.51	1.77	3.94	1.44	3.03		1.12	1.26	
2-Way Angle																	
	1015U072	Vee	5/16	0.062	6.18	2.99	1.44	0.33	0.35	1.97	3.94	1.50	2.28	0.51	1.12	1.26	
3-Way / 2 on Pressure																	
	1015U073	Vee	5/16	0.062	6.44	3.25	1.75	0.33	0.51	1.77	3.94	1.52	3.03	1.44	1.12	1.26	



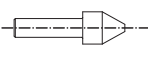
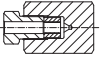
G - Panel mounting screw size 10-24 UNC.

All dimensions are for reference only and subject to change.

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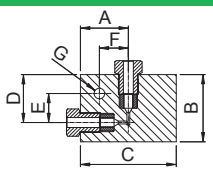
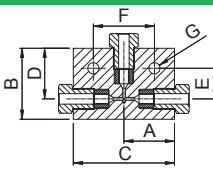
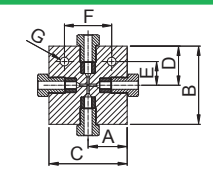
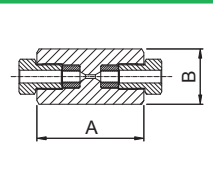
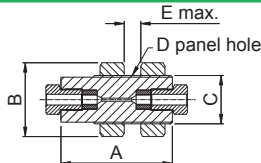
MAXIMATOR ultra high pressure fittings are designed to be used with the 101V series ultra high pressure valves and ultra high pressure tubing. All ultra high pressure fittings have coned and threaded type connections and are supplied with glands and collars. Mounting holes are standard on all elbows, tees, and crosses.



Tubing Size	Gland	Collar	Plug	Tubing Cap
5/16				
	152G5U	152C5U	152P5U	152TC5U

Connection Components

All ultra 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 Size (in.)	Orifice (in.)	Dimensions (in.)							Block Thickness
					A	B	C	D	E	F	G	
Elbow												
	152L5U	5UF	5/16	0.094	1.52	2.13	3.03	1.52	0.92	0.92	0.33	1.26
Tee												
	152T5U	5UF	5/16	0.094	1.52	2.13	3.03	1.52	0.92	1.83	0.33	1.26
Cross												
	152X5U	5UF	5/16	0.094	1.52	3.03	3.03	1.52	0.92	1.83	0.33	1.26
Straight Coupling / Union Coupling												
	152F5U	5UF	5/16	0.094	2.64	1.19	Straight Coupling					
	152UF5U						Union Coupling					
Bulkhead Coupling												
	152BF5U	5UF	5/16	0.094	3.27	2.17	1.42	1.43	0.87			

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

Ultra High Pressure Tubing & Threaded Nipples

Pressures to 152,000 psi

MAXIMATOR offers a line of cold drawn thick wall tubing, with flow areas to compliment the ultra high pressure valve and fitting line. This tubing is made under strict manufacturing and quality control standards and inspections, with dimensional tolerances to match the requirements of the ultra high pressure coned and threaded connections. The standard material is 316 stainless steel.



Tubing Tolerances

Normal Tubing Size (in.)	Tolerance O.D. (in.)
5/16	0.310 / 0.306

Catalog Number	Tube Material	Fits Connection Type	Tube Size (in.)		Working Pressure (psi)				
			O.D.	I.D.	-325 to 100°F	200°F	400°F	600°F	800°F
152TU5U	316SS	5UF	5/16	0.062	152,000	136,800	126,160	115,520	109,440

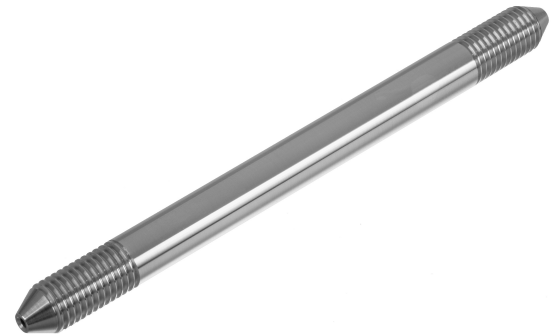
All dimensions are for reference only and subject to change.

Coned and Threaded Nipples

MAXIMATOR offers a line of coned and threaded ultra high pressure tube nipples in a variety of lengths.

The coned and threaded ultra 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.



Catalog Numbers are 316 Stainless Steel material					Fits Connection Type	Tube Size (in.)		Working Pressure at 100 °F (psi)
4" Length	6" Length	8" Length	10" Length	12" Length		O.D.	I.D.	
152N5U-4-316	152N5U-6-316	152N5U-8-316	152N5U-10-316	152N5U-12-316	5UF	5/16	0.062	152,000

Standard nipples are not supplied with glands and collars, see Fittings on page 3 for these components.

See the above chart for Pressure/Temperature Rating.

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