to 21,000 psi (1,500 bar

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

to 152,000 psi (10,500 bar)

Ultra High Pressure









Ultra High Pressure Valves, Fittings and Tubing Pressures to 152,000 psi (10,500 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.

### **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 ga(ling.
- ▶ Stem sleeve and packing gland materials have been selected to achieve optimum thread cycle life and reduced handle to que. 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.

MAXIMATOR 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.

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Fittings rated 

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Valve Actuators

to 21,000 psi (1,500 bar)

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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** 

to 21,000 psi (1,500 bar)

# **MAXIMATOR®**

# **Ultra High Pressure Valves**Pressures to 101,000 psi (7,000 bar)



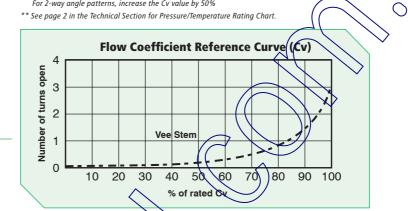
## **Ordering Information**

Typical catalog number: 101V5U071

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



\* Cv values shown are for 2-way straight pattern vee stem valves. For 2-way angle patterns, increase the Cv value by 50%



## **Temperature Ranges**

Standard valves are supplied with Teflon/Carbon packing and may be operated to 450°F (230°C). Consult MAXIMATOR for higher temperature packing ratings.

Value Dattaur	Catalog	Stem	O.D. Tube	Orifice		Dimensions in. (mm)						Valve				
Valve Pattern	Number	type	in.	in. ( <b>mm</b> )	А	В	25	D	E	F	Н	I	J	K	Panel Hole	ness
2-Way Straight								1								
A B C F F F F F F F F F F F F F F F F F F	1015U071	<b>V</b> ee	5/16	0.062 (1.58)	5.43 ( <b>137.9</b> )	2.44	)1.75 (44.5)	0.33 (8.4)		1.77 <b>(45)</b>		1.44 ( <b>36.6</b> )	3.03 <b>(77)</b>		1.12 <b>(28.5)</b>	1.26 <b>(32)</b>
2-Way Angle					$\supset$											
A A C B B	10150072	Vee	5/16	0.062 (1.58)			1.44 <b>(36.6)</b>		0.35 <b>(8.9)</b>						1.12 <b>(28.5)</b>	1.26 <b>(32)</b>
3-Way / 2 on Pressure																
B C U U U U U U U U U U U U U U U U U U	1015U073	Vee	<sup>5</sup> / <sub>16</sub>	0.062 <b>(1.58)</b>		3.25 <b>(82.6)</b>	1.75 <b>(44.5)</b>		0.51 <b>(13)</b>	1.77 <b>(45)</b>		1.52 <b>(38.6)</b>			1.12 <b>(28.5)</b>	1.26 <b>(32)</b>

G - Panel mounting screw size 10-24 UNC.
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to 21,000 psi (1,500 bar)

to 65,000 psi (4,500 bar)

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

**High Pressure** 

Medium Pressure

Valve Actuators

to 21,000 psi (1,500 bar)

# **MAXIMATOR®**

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

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.

Collar

152C5U

Plug

152P5U

Gland

152G5U

**Tubing Size** 

5/16

	`

## 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	Fitting Pattern Catalog Number tion Tube in.  Connec- O.D. Orifice Dimensions in. (mm)								Block Thick-			
Titting rattern	Catalog Nulliber	Туре	Size in.	(mm)	А	В	1	0	Е	F	G	ness
					-(			<del>\</del>				
<b>Elbow</b>						//						
C F	152L5U	5UF	<sup>5</sup> / <sub>16</sub>	0.094	1.52	2.13	3.03	1.52	0.92	0.92	0.33	1.26
C	132130	301	716	(2.4)	(38.6)	(54.1)	(77)	(38.6)	(23.4)	(23.4)	(8.4)	(32)
Tee					1	\						
F G					(	)						
	152T5U	5UF	5/16	0,09#	1.52	2.13	3.03	1.52	0.92	1.83	0.33	1.26
A	152150	301	3/16	(2.4)	(38.6)	(54.1)	(77)	(38.6)	(23.4)	(46.5)	(8.4)	(32)
C												
Cross	_											
G F			$\Diamond$	0.094	1.52	3.03	3.03	1.52	0.92	1.83	0.33	1.26
	152 <b>X</b> 5U	5ÚF.>	<sup>5</sup> / <sub>16</sub>	(2.4)	(38.6)	(77)	(77)	(38.6)	(23.4)	(46.5)	(8.4)	(32)
C		0										
Straight Coupling / U	nion Couplin	<b>)</b>										
	152450							Strai	ight Cou	pling		
		5UF	<sup>5</sup> / <sub>16</sub>	0.094	2.64	1.19						
A	152UF5U			(2.4)	(67.1)	(30.2)		Uni	on Coup	ling		
Bulkhead Coupling	>											
D panel hole				2 224	2 27	2.47	4.43	4.43	0.07			
	152BF5U	5UF	<sup>5</sup> / <sub>16</sub>	0.094 <b>(2.4)</b>	3.27 ( <b>83.1</b> )	2.17 <b>(55.1)</b>	1.42 <b>(36.1)</b>	1.43 (36.3)	0.87 <b>(22.1)</b>			
				\/	(33)	(22)	(23.1)	(23.5)	(,			
		<u> </u>					l	1	<u> </u>			

Tubing Cap

152TC5U

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

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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**<sup>®</sup>

# Ultra High Pressure Tubing & Threaded Nipples Pressures to 152,000 psi (10,500 bar)

**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. (mm)	Tolerance O.D. in. (mm)
<sup>5</sup> / <sub>16</sub> <b>(7.94)</b>	0.310 / 0.306 <b>(7.874</b> / <b>7.72)</b>

Tube Size in. (mm)				Working Rressure psi (bar)								
Catalog Number	Tube Material	Connection Type	0.D.	I.D.	-325 to 100°F (-198°C to 37°C)	200°F (93°C)	400 E (204°C)	600°F ( <b>315°C</b> )	800°F ( <b>426°C</b> )			
152TU5U-316	316SS	5UF	<sup>5</sup> / <sub>16</sub>	0.062	152,000	136,800	126,160	115,520	109,44			
1321030-316	21050-316 31655 50F		(7.94)	(1.58)	(10,500)	(9,500)	(8.700)	(8,000)	(7,600)			
152THEH HD160	UD160	EHE	<sup>5</sup> / <sub>16</sub>	0.062	152,000	124,000	108,800	99,800	92,200			
152TU5U-HP160	HP160	5UF	(7.94)	(1.58)	(10,500)	(8,608)	(7,560)	(6,930)	(6,400)			

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 hipples 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-Num	bers are 316 Stainless S	iteel material		Fits		e Size ( <b>mm</b> )	Working
4" <b>(101.6)</b> Length			10" <b>(254)</b> Length	12" <b>(304.8)</b> Length	Connection Type	0.D.	I.D.	Pressure at 100°F psi <b>(bar)</b>
152N5U-4-316	152N5U-6-316	152N5U-8-316	152N5U-10-316	152N5U-12-316	5UF	<sup>5</sup> / <sub>16</sub> <b>(7.94)</b>	0.062 <b>(1.58)</b>	152,000 <b>(10,500)</b>

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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