



Medium Pressure Valves, Fittings and Tubing Pressures to 22,500 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.

Medium 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 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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All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold. MT R10 June 2021

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Printed in the USA

Medium Pressure Valves

Pressures to 22,500 psi



Ordering Information

Typical catalog number: **21V4M071**

21V	4M	07	1	OPTIONS
Valve Series	0.D. Tube Size	Stem Type	Body Pattern	Extreme temperature
21V 15V	$\begin{array}{l} 4M - \frac{1}{4"} \\ 6M - \frac{3}{8"} \\ 9M - \frac{9}{16"} \\ 12M - \frac{3}{4"} \\ 16M - \frac{1}{4"} \\ 24M - 1 \frac{1}{2"} \end{array}$	 07 - VEE stem 08 - REGULATING stem (tapered tip for regulating and shutoff) 87 - VEE stem with replaceable seat 88 - REGULATING stem with replaceable seat 	 two-way straight two-way angle three-way, two on pressure three-way, one on pressure three-way, two-stem manifold 	option, see below.

Special Designs for Extreme Temperatures

Standard values 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 extended 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 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.

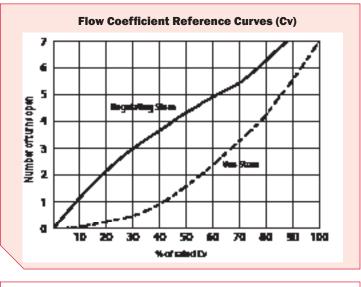
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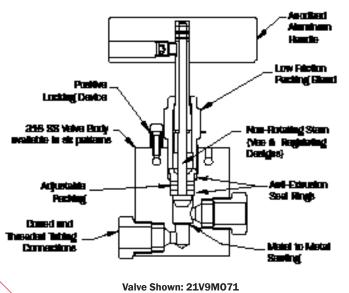
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Traceability is ensured through extensively documented data (batch number, maximum pressure, material number, type designation). All medium pressure valves include glands and collars.

0.D. Size (in.)	Connection Type	Orifice Size (in.)	Rated Cv*	Pressure/Temp. Rat- ing (PSI@ R.T.)**
1/4	4MF	0.106	0.31	22,500
3/8	6MF	0.201	0.75	22,500
9/16	9MF	0.307	1.30	22,500
3/4	12MF	0.438	2.50	22,500
1	16MF	0.562	4.40	22,500
1- ¹ / ₂	24MF	0.937	14	15,200

* 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.





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	Catalog	Stom	O.D. Tube (in.)	Orifico			Valve	Block								
Valve Pattern	Number	Туре		(in.)	Α	в	С	D	Е	F	Н	I	J	К		Thick- ness
3-Way / 1 on Pressure																
н <mark>а А</mark>	21V4M074 21V4M084	Vee Reg		0.106	5.00	2.43	1.19	0.22	0.37	1.24	2.95	1.00	2.01		0.75	0.79
	21V6M074 21V6M084	Vee Reg	3/2	0.201	5.00	2.43	1.19	0.22	0.37	1.24	2.95	1.00	2.01		0.75	0.79
	21V9M074 21V9M084	Vee Reg	9/10	0.307	6.85	3.38	1.75	0.37	0.45	1.38	3.94	1.25	2.50		1.00	1.02
	21V12M074 21V12M084	Vee	3/4	0.438	7.56	4.25	2.25	0.43	0.63	1.76	10.31	1.50	3.00		1.25	1.38
	21V16M074 21V16M084		- 1	0.562	9.53	5.12	2.81	0.53	1.13	2.50	10.31	2.07	4.13		1.62	1.77

3-Way / 2-Stem Manifold																
	21V4M075	Vee	17	0.125	0 5 4	3.39	1.69	0.22	0.27	1.04	0.05	1 00	0.01	1.19	0.75	0.79
B 1	21V4M085	Reg	-7/4	0.125	8.54			0.22	0.37	1.24	2.95	1.00	2.01	1.19	0.75	
	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
	21V6M085	Reg	7/8													0.79
	21V9M075	Vee	9/	0.312	10.06	E 10	2.56	0.37	0.45	1.38	3.94	1.25	2.50	1.75	1.00	1.02
	21V9M085	Reg	~/16		12.00	5.12							2.50	1.75	1.00	
	21V12M075	Vee	3/.	0.438	12.07	6.50	3.25	0.43	0.63	1.76	10.31	1.50	3.00	2.25	1.25	1.38
	21V12M085	Reg	~/4	0.436	15.07	0.50	3.25	0.45	0.65	1.70	10.51	1.50	3.00	2.25	1.25	1.50
	21V16M075	Vee	1	0.562	16 19	7.52	3.76	0.53	1.13	2.50	10.31	2.07	4.13	2.81	1.62	1.77
	21V16M085	Reg	1	0.362	10.10	1.52	3.70	0.55	1.13	2.30	10.51	2.07	4.13	2.01	1.02	1.11

2-Way Angle / Replaceable Seat																
	21V4M872	Vee	1/	0.125	101	2.25	1.19	0.22	0.37	1.24	2.95	1.00	2.01	0.89	0.75	0.70
	21V4M882	Reg	-7/4	0.125	4.04	2.25	1.19	0.22	0.37	1.24	2.95	1.00	2.01	0.69	0.75	0.79
Н	21V6M872	Vee	3/8	0.210	4.84	2.25	1.19	0.22	0.37	1.24	2.95	1.00	2.01	1.02	0.75	0.79
	21V6M882	Reg	78	0.219		2.25	1.19	0.22	0.57	1.24	2.95	1.00	2.01	1.02	0.75	0.79
	21V9M872	Vee	9/	0.312	6 6 9	3.21	1.75	0.37	0.45	1.38	3.94	1.25	2.50	1.10	1.00	1.02
	21V9M882	Reg	7/16		0.00								2.50	1.10		1.02
	21V12M872	Vee	3/4	0.438	7.56	4.25	2.25	0.43	0.63	1.76	10.31	1.50	3.00	1.46	1.25	1.38
	21V12M882	Reg	%4	0.438	1.50	4.25	2.25	0.43	0.03	1.70	10.51	1.50	3.00	1.40	1.25	1.30
	21V16M872	Vee	1	0.562	0.57	5.25	2.81	0.53	1.13	2.50	10.31	2.07	4.13	1.74	1.62	1.77
	21V16M882	Reg	1	0.502	9.57	5.25	2.01	0.55	1.13	2.50	10.51	2.07	4.13	1.74	1.02	1.77

All dimensions for reference only and are subject to change.