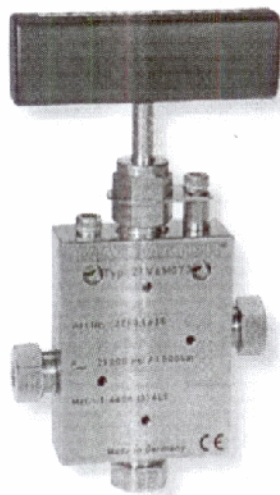


MAXIMATOR®

Medium Pressure Valves

Pressures to 22,500 psi (1,550 bar)



Product Information

catalog number: 21V4M071

4M	07	1	OPTIONS
O.D. Tube Size	Stem Type	Body Pattern	Extreme temperature option, see below.
4M - 1/4"	07 - VEE stem	1 - two-way straight	
6M - 3/8"	08 - REGULATING stem (tapered tip for regulating and shutoff)	2 - two-way angle	
9M - 1/2"		3 - three-way, two on pressure	
12M - 5/8"	87 - VEE stem with replaceable seat	4 - three-way, one on pressure	
16M - 1"	88 - REGULATING stem with replaceable seat	5 - three-way, two-stem manifold	

Special Designs for Extreme Temperatures

Standard valves are supplied with Teflon/Carbon packing and may be operated to 450°F (230°C). High temperature 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.

standard valve with teflon glass packing to 600°F (315°C).

standard valve with graphite braided yarn packing to 800°F (425°C).

extended stuffing box valve with graphite braided yarn packing to 1200°F (650°C).

standard valve with cryogenic trim materials and Teflon packing to -100°F (-73°C).

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

Repair Kits

Ask your MAXIMATOR representative for repair kits and bodies. Refer to the Tools and Installation section for 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.

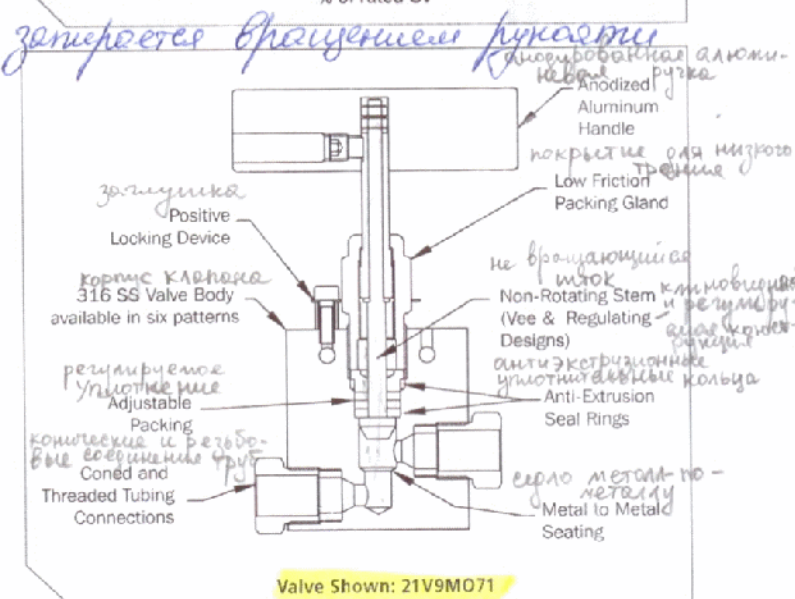
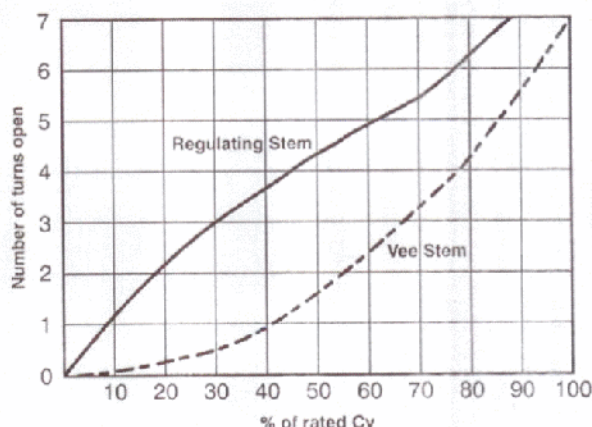
Traceability is ensured through extensively documented data (batch number, maximum pressure, material number, type designation). All medium pressure valves include glands and collars.

O.D. Size in. (mm)	Connection Type	Orifice Size in. (mm)	Rated Cv*	Pressure/Temperature Rating psi @ R.T. (bar)**
1/4 (6.35)	4MF	0.125 (3.2)	0.31	22,500 (1,550)
3/8 (9.53)	6MF	0.219 (5.6)	0.75	22,500 (1,550)
1/2 (12.7)	9MF	0.312 (7.9)	1.30	22,500 (1,550)
3/4 (19.05)	12MF	0.438 (11.1)	2.50	22,500 (1,550)
1 (25.4)	16MF	0.562 (14.3)	4.40	22,500 (1,550)

* 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.

Flow Coefficient Reference Curves (Cv)



Valve Shown: 21V9M071

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3999.1823 | 02/2013

Pipe Valves & Fittings
to 15,200 psi (1,050 bar)

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

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

MAXIMATOR®

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

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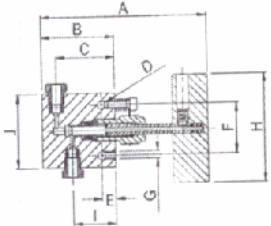
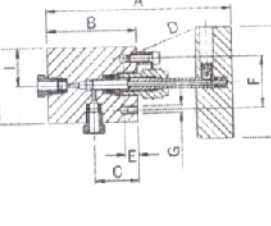
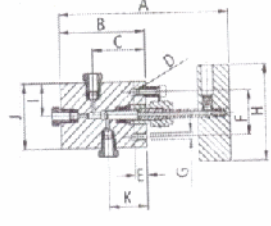
Medium Pressure
to 22,500 psi (1,550 bar)

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

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

Valve Actuators

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

Valve Pattern	Catalog Number	Stem Type	O.D. Tube in.	Orifice in. (mm)	Dimensions in. (mm)											Valve Panel Hole	Block Thickness
					A	B	C	D	E	F	H	I	J	K			
2-Way Straight																	
	21V4M071	Vee	1/4	0.106	4.61	2.01	1.62	0.22	0.37	1.24	2.95	1.19	2.01		0.75	0.79	
	21V4M081	Reg		(2.7)	(117)	(51)	(41.1)	(5.6)	(9.5)	(31.5)	(75)	(30.2)	(51)		(19.1)	(20.1)	
	21V6M071	Vee	3/8	0.201	4.61	2.01	1.62	0.22	0.37	1.24	2.95	1.19	2.01		0.75	0.79	
	21V6M081	Reg		(5.1)	(117)	(51)	(41.1)	(5.6)	(9.5)	(31.5)	(75)	(30.2)	(51)		(19.1)	(20.1)	
	21V9M071	Vee	9/16	0.307	5.87	2.88	2.38	0.37	0.45	1.38	3.94	1.75	2.50		1.00	1.02	
	21V9M081	Reg		(7.8)	(149)	(73.2)	(60.5)	(9.5)	(11.5)	(35)	(100)	(44.5)	(63.5)		(25.4)	(25.9)	
	21V12M071	Vee	3/4	0.438	7.05	3.74	3.00	0.43	0.63	1.76	10.31	2.25	3.00		1.25	1.38	
	21V12M081	Reg		(11.1)	(179)	(95)	(76)	(11)	(16)	(44.7)	(262)	(57.2)	(76)		(31.8)	(35)	
	21V16M071	Vee	1	0.562	8.98	4.65	3.75	0.53	1.13	2.50	10.31	2.81	4.13		1.62	1.77	
	21V16M081	Reg		(14.3)	(228)	(118)	(95.3)	(13.5)	(28.7)	(63.5)	(262)	(71.4)	(105)		(41.1)	(45)	
2-Way Angle																	
	21V4M072	Vee	1/4	0.106	5.00	2.43	1.19	0.22	0.37	1.24	2.95	1.00	2.01		0.75	0.79	
	21V4M082	Reg		(2.7)	(127)	(61.7)	(30.2)	(5.6)	(9.5)	(31.5)	(75)	(25.4)	(51)		(19.1)	(20.1)	
	21V6M072	Vee	3/8	0.201	5.00	2.43	1.19	0.22	0.37	1.24	2.95	1.00	2.01		0.75	0.79	
	21V6M082	Reg		(5.1)	(127)	(61.7)	(30.2)	(5.6)	(9.5)	(31.5)	(75)	(25.4)	(51)		(19.1)	(20.1)	
	21V9M072	Vee	9/16	0.307	6.36	3.38	1.75	0.37	0.45	1.38	3.94	1.25	2.50		1.00	1.02	
	21V9M082	Reg		(7.8)	(161.5)	(85.9)	(44.5)	(9.5)	(11.5)	(35)	(100)	(31.8)	(63.5)		(25.4)	(25.9)	
	21V12M072	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	
	21V12M082	Reg		(11.1)	(192)	(108)	(57.2)	(11)	(16)	(44.7)	(262)	(38)	(76)		(31.8)	(35)	
	21V16M072	Vee	1	0.562	9.45	5.12	2.81	0.53	1.13	2.50	10.31	2.07	4.13		1.62	1.77	
	21V16M082	Reg		(14.3)	(240)	(130)	(71.4)	(13.5)	(28.7)	(63.5)	(262)	(52.5)	(105)		(41.1)	(45)	
3-Way / 2 on Pressure																	
	21V4M073	Vee	1/4	0.106	5.20	2.62	1.62	0.22	0.37	1.24	2.95	1.00	2.01	1.19	0.75	0.79	
	21V4M083	Reg		(2.7)	(132)	(66.5)	(41.1)	(5.6)	(9.5)	(31.5)	(75)	(25.4)	(51)	(30.2)	(19.1)	(20.1)	
	21V6M073	Vee	3/8	0.201	5.20	2.62	1.62	0.22	0.37	1.24	2.95	1.00	2.01	1.19	0.75	0.79	
	21V6M083	Reg		(5.1)	(132)	(66.5)	(41.1)	(5.6)	(9.5)	(31.5)	(75)	(25.4)	(51)	(30.2)	(19.1)	(20.1)	
	21V9M073	Vee	9/16	0.307	6.60	3.62	2.38	0.37	0.45	1.38	3.94	1.25	2.50	1.75	1.00	1.02	
	21V9M083	Reg		(7.8)	(167.6)	(92)	(60.5)	(9.5)	(11.5)	(35)	(100)	(31.8)	(63.5)	(44.5)	(25.4)	(25.9)	
	21V12M073	Vee	3/4	0.438	7.97	4.63	3.00	0.43	0.63	1.76	10.31	1.50	3.00	2.25	1.25	1.38	
	21V12M083	Reg		(11.1)	(201)	(117.5)	(76)	(11)	(16)	(44.7)	(262)	(38)	(76)	(57.2)	(31.8)	(35)	
	21V16M073	Vee	1	0.562	10.20	5.87	3.75	0.53	1.13	2.50	10.31	2.07	4.13	2.81	1.62	1.77	
	21V16M083	Reg		(14.3)	(259)	(149)	(95.3)	(13.5)	(28.7)	(63.5)	(262)	(52.5)	(105)	(71.4)	(41.1)	(45)	

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

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