NGGUG VALVGS

Mini Valves MVE/MV Series

Pressures to 15,000 psi (1034 bar)

Since 1945 Parker Autoclave Engineers has designed and built premium quality valves, fittings and tubing. This commitment to engineering and manufacturing excellence has earned Parker Autoclave a reputation for reliable efficient product performance. Parker Autoclave Engineers has long been established as the world leader in high pressure fluid handling components for the chemical/petrochemical, research, and oil and gas industries.

Mini Valve Features:

- Mini valve provides a rugged compact design.
- Tubing sizes available are 1/16" and 1/8".
- Rising stem/barstock body design.
- Metal-to-metal seating achieves bubble-tight shut-off, longer stem/seat life in abrasive flow, greater durability for repeated on/off cycles and excellent corrosion resistance.
- PTFE encapsulated packing provides dependable stem and body sealing.
- Stem and packing gland design have been selected to achieve extended thread cycle life and reduced handle torque.
- Vee stem tip provided.
- Available in five body patterns.
- Mini valves available with metric tube glands.

Parker Autoclave Engineers valves are complemented by a complete line of mini fittings and tubing. The MVE/MV Series uses Parker Autoclave Engineers' SpeedBite connection. This single-ferrule compression sleeve connection delivers fast, easy make-up and reliable bubble-tight performance in liquid or gas service.





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Mini Valves - MVE/MV Series

Negdle Valves - MVE/MV Series

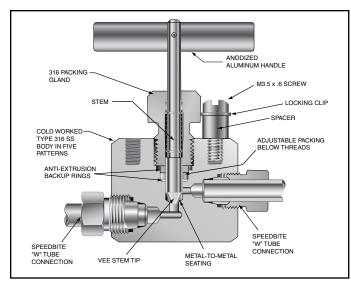
Pressures to 15,000 psi (1034 bar)

Tube Outside Diameter Size Inches	Connection Type	Orifice Size Inches (mm)	Rated C _v *	Pressure Rating psi (bar) @ Room Temperature**
1/16	W062	0.055 (1.40)	0.05	15,000 (1034)
1/8	W125	0.078 (1.98)	0.11	15,000 (1034)

Notes:

* C_V values shown are for 2-way straight valve pattern. For 2-way angle patterns, increase C_V value 50%. (Based on water)

** For complete temperature ratings see pressure/temperature rating guide in Technical Information section.

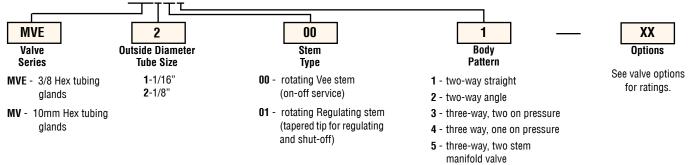


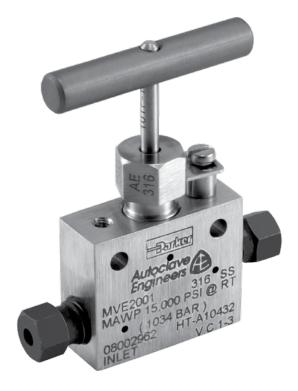


Ordering Procedure

For complete information on valve options, contact your Sales Representative. MVE Series valves are furnished complete with connection components, unless otherwise specified.







Valve Options

Extreme Temperatures

Standard Parker Autoclave Engineers valves with PTFE packing may be operated to 450°F (232°C). High temperature packing is available for service from 0°F (-17.8°C) to 600°F (316°C) by adding the following suffixes to catalog order number.†

TG standard valve with PTFE glass packing to 600°F (316°C).

↑ Parker Autoclave Engineers does not recommend compression sleeve connections below 0°F (-17.8°C) or above 650°F (343°C). For additional valve options, contact your Sales Representative.

Valve Maintenance

Refer to the Tools, Installation, Operation and Maintenance section for proper maintenance procedures.

Catalog	Stom	Outside Diameter	Orifino					Dime	nsions -	inches ((mm)					Block Thick-	Valve
Catalog Number	Type		Diameter	A	В	C	D	D ₁	E	F	G	G ₁	H*	М	N	ness	Pattern

2-Way Straight

MVE1001	VEE	1/16	0.055	1.38	0.69	0.45	0.81	0.56	1.13	1.75	0.56	0.16	2.38	0.45	0.20	0.56	
MV1001	VEE	(1.57)	(1.40)	(34.93)	(17.45)	(11.43)	(20.65)	(14.30)	(28.58)	(44.45)	(14.27)	(4.04)	(60.38)	(11.49)	(5.16)	(14.27)	See
MVE2001	VEE	1/8	0.078	1.38	0.69	0.45	0.81	0.56	1.13	1.75	0.56	0.16	2.38	0.45	0.20	0.56	Figure 1
MV2001	VEE	(3.18)	(1.98)	(34.93)	(17.45)	(11.43)	(20.65)	(14.30)	(28.58)	(44.45)	(14.27)	(4.04)	(60.38)	(11.49)	(5.16)	(14.27)	

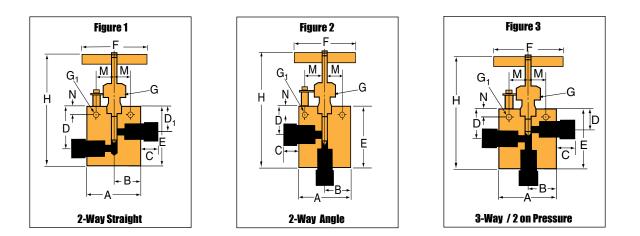
2-Way Angle

MVE1002	VEE	1/16	0.055	1.38	0.69	0.45	0.56	1.38	1.75	0.56	0.16	2.63	0.45	0.20	0.56	
MV1002	VEE	(1.57)	(1.40)	(34.93)	(17.45)	(11.43)	(14.30)	(34.93)	(44.45)	(14.27)	(4.04)	(66.75)	(11.49)	(5.16)	(14.27)	See
MVE2002	VEE	1/8	0.078	1.38	0.69	0.45	0.56	1.38	1.75	0.56	0.16	2.38	0.45	0.20	0.56	Figure 2
MV2002	VEE	(3.18)	(1.98)	(34.93)	(17.45)	(11.43)	(14.30)	(34.93)	(44.45)	(14.27)	(4.04)	(60.38)	(11.49)	(5.16)	(14.27)	

3-Way / 2 on Pressure

MVE1003	VEE	1/16	0.055	1.38	0.69	0.45	0.81	0.56	1.44	1.75	0.56	0.16	2.69	0.45	0.20	0.56	
MV1003	VEE	(1.57)	(1.40)	(34.93)	(17.45)	(11.43)	(20.65)	(14.30)	(36.50)	(44.45)	(14.27)	(4.04)	(68.30)	(11.49)	(5.16)	(14.27)	See
MVE2003	VEE	1/8	0.078	1.38	0.69	0.45	0.81	0.56	1.44	1.75	0.56	0.16	2.69	0.45	0.20	0.56	Figure 3
MV2003	VEE	(3.18)	(1.98)	(34.93)	(17.45)	(11.43)	(20.65)	(14.30)	(36.50)	(44.45)	(14.27)	(4.04)	(68.30)	(11.49)	(5.16)	(14.27)	

G - Packing gland mounting hole drill size *G*₁ - Bracket mounting hole size Panel mounting screws are M3.5 x .7 thd. Tube glands are 3/8" hex on standard MVE models Tube glands are 10mm hex on MV models. * H Dimension is with stem in closed position. All dimensions for reference only and subject to change. For prompt service, Parker Autoclave Engineers stocks select products. Consult factory.



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

Catalog	Stem	Outside	Orifice					Dimer	nsions -	inches (ı	nm)					Block Thick-	Valve
Number	Туре	Diameter Tube	Diameter	A	В	C	D	D ₁	E	F	G	G1	H*	М	N	ness	Pattern

3-Way / 1 on Pressure

MVE1004	VEE	1/16	0.055	1.38	0.69	0.45	0.56	0.56	1.44	1.75	0.56	0.16	2.69	0.45	0.20	0.56	
MV1004	VEE	(1.57)	(1.40)	(34.93)	(17.45)	(11.43)	(14.22)	(14.30)	(36.50)	(44.45)	(14.27)	(4.04)	(68.30)	(11.49)	(5.16)	(14.27)	See
MVE2004	VEE	1/8	0.078	1.38	0.69	0.45	0.56	0.56	1.44	1.75	0.56	0.16	2.69	0.45	0.20	0.56	Figure 4
MV2004	VEE	(3.18)	(1.98)	(34.93)	(17.45)	(11.43)	(14.22)	(14.30)	(36.50)	(44.45)	(14.27)	(4.04)	(68.30)	(11.49)	(5.16)	(14.27)	

3-Way / 2-Stem Manifold

MVE1005	VEE	1/16	0.055	1.38	0.69	0.45	0.81	0.56	1.63	1.75	0.56	0.16	4.11	0.45	0.20	0.56	
MV1005	VEE	(1.57)	(1.40)	(34.93)	(17.45)	(11.43)	(20.65)	(14.30)	(41.28)	(44.45)	(14.27)	(4.04)	(104.44)	(11.49)	(5.16)	(14.27)	See
MVE2005	VEE	1/8	0.078	1.38	0.69	0.45	0.81	0.56	1.63	1.75	0.56	0.16	4.11	0.45	0.20	0.56	Figure 5
MV2005	VEE	(3.18)	(1.98)	(34.93)	(17.45)	(11.43)	(20.65)	(14.30)	(41.28)	(44.45)	(14.27)	(4.04)	(104.44)	(11.49)	(5.16)	(14.27)	

G - Packing gland mounting hole drill size

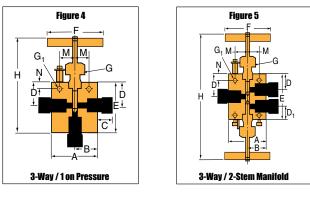
G₁ - Bracket mounting hole size

Panel mounting screws are M3.5 x .7 thd.

Tube glands are 3/8 hex on standard MVE models

Tube glands are 10mm hex on MV models

* H Dimension is with stem in closed position. All dimensions for reference only and subject to change. For prompt service, Parker Autoclave stocks select products. Consult factory.



WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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Caution! Parker Autoclave Engineers Valves, Fittings and Tools are not designed to work with common commercial instrument tubing and will only work with tubing built to Parker Autoclave Engineers AES Specifications. Failure to do so will void warranty.

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