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.





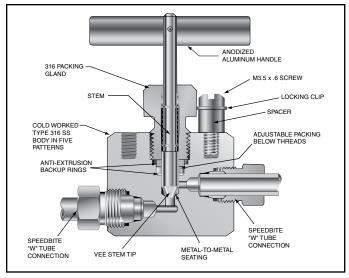


Pressures to 15,000 psi (1034 bar)

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.





To ensure proper fit use Parker Autoclave tubing

Ordering Procedure

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

Typical catalog number: **MVE2001** MVE 2 00 XX Outside Diameter Body Valve Stem Options Series **Tube Size** Pattern Type See valve options 1-1/16" 00 - rotating Vee stem MVE - 3/8 Hex tubing 1 - two-way straight for ratings. **2**-1/8" (on-off service) glands 2 - two-way angle 01 - rotating Regulating stem MV - 10mm Hex tubing 3 - three-way, two on pressure (tapered tip for regulating glands 4 - three way, one on pressure and shut-off) 5 - three-way, two stem manifold valve

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).

Valve Maintenance

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

[†] 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.

Catalog	Stam	Outside	Orifice					Dime	ensions -	inches ((mm)					Block Thick-	Valve
Number	Туре		Diameter	A	В	C	D	D ₁	E	F	G	G ₁	Н*	M	N	ness	Pattern
2-Way S	Straig	jht															

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

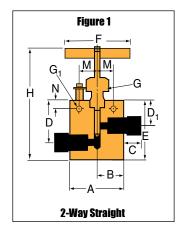
MVE1002	VEE	1/16	0.055	1.38	0.69	0.45	0.56	1.38	1.75	0.56	0.16	2.63	0.45	0.20	0.56	
MV1002	VEE	(1.57)	(1.40)	(34.93)	(17.45)	(11.43)	(14.30)	(34.93)	(44.45)	(14.27)	(4.04)	(66.75)	(11.49)	(5.16)	(14.27)	See
MVE2002	VEE	1/8	0.078	1.38	0.69	0.45	0.56	1.38	1.75	0.56	0.16	2.38	0.45	0.20	0.56	Figure 2
MV2002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

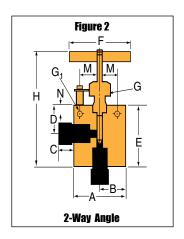
3-Way / 2 on Pressure

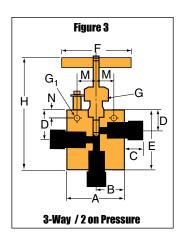
MVE1003	VEE	1/16	0.055	1.38	0.69	0.45	0.81	0.56	1.44	1.75	0.56	0.16	2.69	0.45	0.20	0.56	
MV1003	VEE	(1.57)	(1.40)	(34.93)	(17.45)	(11.43)	(20.65)	(14.30)	(36.50)	(44.45)	(14.27)	(4.04)	(68.30)	(11.49)	(5.16)	(14.27)	See
MVE2003	VEE	1/8	0.078	1.38	0.69	0.45	0.81	0.56	1.44	1.75	0.56	0.16	2.69	0.45	0.20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

For prompt service, Parker Autoclave Engineers stocks select products. Consult factory.







^{*} H Dimension is with stem in closed position. All dimensions for reference only and subject to change.

Catalog	Stem	Outside	Orifice					Dimer	nsions -	inches (ı	mm)					Block Thick-	Valvo
Number	1 _	Diameter Tube	Diameter	A	В	C	D	D ₁	E	F	G	G ₁	Н*	M	N	ness	Valve 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)	

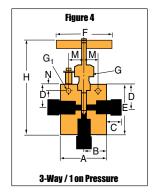
3-Way / 2-Stem Manifold

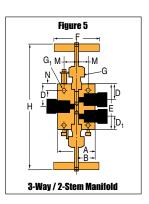
MVE1005	VEE	1/16	0.055	1.38	0.69	0.45	0.81	0.56	1.63	1.75	0.56	0.16	4.11	0.45	0.20	0.56	
MV1005	VEE	(1.57)	(1.40)	(34.93)	(17.45)	(11.43)	(20.65)	(14.30)	(41.28)	(44.45)	(14.27)	(4.04)	(104.44)	(11.49)	(5.16)	(14.27)	See
MVE2005	VEE	1/8	0.078	1.38	0.69	0.45	0.81	0.56	1.63	1.75	0.56	0.16	4.11	0.45	0.20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

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WARNING

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信德迈科技(北京)有限公司 CNMEC Technology

地址:北京市朝阳区望京SOHO-T1-C座2115室

邮编:100102

*Tel: 010-8428 2935 | * Fax: 010-8428 8762

*手机:139 1096 2635

*电子邮件: sales@cnmec.biz 主页:http://www.cnmec.biz **Caution!** Do not mix or interchange parts or tubing with those of other manufacturers. Doing so is unsafe and will void warranty.

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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