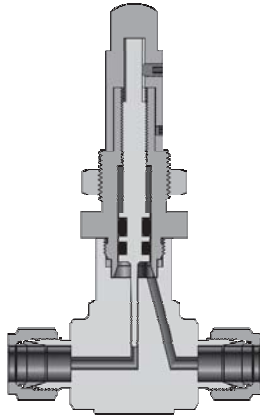


Metering Valves

MV1 Series

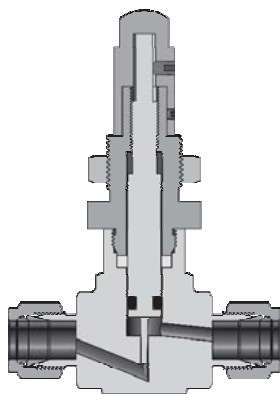


Maximum working pressure up to 2000 psig (137 bar).
 Working temperatures from -10 °F to 400 °F (-23 °C to 204 °C).
 Orifice size: 0.032 in. (0.81mm).
 Flow coefficient (Cv): 0.004.
 Stem taper: 1°
 Shutoff service: no.
 CIR-LOK provide straight, angle, cross, and double patterns.
 Handles selected: round, vernier, slotted, and adjustable-torque handles.
 316, 304, 321, 304L, 316L/A182 and brass/B283 body materials are available.

Flow Data @ 70°F (20°C)

Pressure Drop to atmosphere psig (bar)	Air Flow std ft ³ /min (std L/min)	Water Flow U.S. gal/min (L/min)
10 (0.68)	0.04 (1.1)	0.01 (0.3)
50 (3.4)	0.10 (2.8)	0.02 (0.07)
100 (6.8)	0.20 (5.6)	0.04 (0.15)

MV2 Series

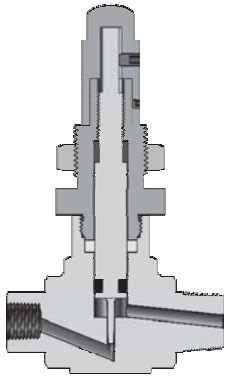


Maximum working pressure up to 1000 psig (68 bar)
 Working temperatures from -10 °F to 400 °F (-23 °C to 204 °C)
 Flow coefficients (Cv): 0.03
 Orifice sizes: 0.056 in. (1.42 mm)
 Stem taper: 3°
 Shutoff service: no
 Flow patterns: straight, angle, cross, and double patterns
 Handles selected: round, vernier, slotted, and adjustable-torque handles
 316, 304, 321, 304L, 316L/A182, and brass/B283 body materials are available.

Flow Data @ 70°F (20°C)

Pressure Drop to atmosphere psig (bar)	Air Flow std ft ³ /min (std L/min)	Water Flow U.S. gal/min (L/min)
10 (0.68)	0.33 (9.3)	0.09 (0.34)
50 (3.4)	0.90 (25.4)	0.21 (0.79)
100 (6.8)	1.5 (42.4)	0.30 (1.1)

MV3 Series

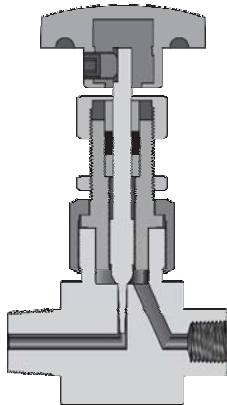


Maximum working pressure up to 1000 psig (68 bar).
 Working temperatures from -10 °F to 400 °F (-23 °C to 204 °C).
 Flow coefficients (Cv): 0.15.
 Orifice sizes: 0.128 in. (3.25 mm).
 Stem taper: 5°
 Shutoff service: yes.
 CIR-LOK provide straight, angle, cross, and double patterns.
 Handles selected: round, vernier, slotted, and adjustable-torque handles.
 316 , 304 , 321, 304L, 316L/A182, and brass/B283 body materials are available.

Flow Date @ 70°F (20°C)

Pressure Drop to atmosphere psig (bar)	Air Flow std ft ³ /min (std L/min)	Water Flow U.S. gal/min (L/min)
10 (0.68)	1.6 (45.3)	0.47 (1.7)
50 (3.4)	4.5 (127)	1.0 (3.7)
100 (6.8)	7.9 (223)	1.5 (5.6)

MV4 Series



Maximum working pressure up 5000 psig (344 bar).
 Working temperatures from -65 °F to 850 °F (-54 °C to 454 °C).
 Orifice size: 0.062 in. (1.6 mm).
 Flow coefficient (Cv): 0.04.
 Stem taper: 2°
 Shutoff service: yes.
 Flow patterns: straight and angle patterns.
 Handle selected: round phenolic handle.
 316, 304, 321, 304L, 316L /A182 body materials are available.

Flow Date @ 70°F (20°C)

Pressure Drop to atmosphere psig (bar)	Air Flow std ft ³ /min (std L/min)	Water Flow U.S. gal/min (L/min)
10 (0.68)	0.45 (12.7)	0.12 (0.45)
50 (3.4)	1.2 (33.9)	0.28 (1.0)
100 (6.8)	2.1 (59.4)	0.40 (1.5)

How to Order

MV1— NPT4 — M6 — EV — BA — 316

Series	Inlet Type	Inlet Size	Outlet Type	Outlet Size	O-Ring Material	Handle Type	Handle Color for knurled Round	Flow pattern	Material
MV1	FNPT Female NPT	1 1/16 in.	Same as Inlet		V Fluorocarbon FKM	K Knurled, round	B Black	S Straight	316
MV2	NPT Male NPT	2 1/8 in.			B Buna N	S Slotted	R Red	A Angle	316L
MV3	FBT Female BSPT	3 3 mm			E Ethylene Propylene	A Adjustable-Torque	G Green	D Double	304
MV4	MBT Male BSPT	4 1/4 in.			N Neoprene	V Vernier	U Blue	C Cross	304L
	FMS Female ISO (for BP)	6 3/8 in. or 6 mm			Z Kalrez	R Round	O Orange		Brass
	MS Male ISO (for BG)	8 1/2 in. or 8 mm					Y Yellow		
	FBP Female BSPP (for BP)	10 10 mm					N None		
	MBG Male BSPP (for BG)	12 3/4 in. or 12 mm							
	F Fractional Tube Fitting								
	M Metric Tube Fitting								
MGFS Male GFS Fitting									