

Metering Valve

MV4 Series



- ❖ Maximum working pressure up to 5000 psig (344 bar)
- ❖ Working temperature from -65°F to 850°F (-54°C to 454°C)
- ❖ Orifice size is 0.062" (1.6 mm)
- ❖ Straight and angle patterns

Features

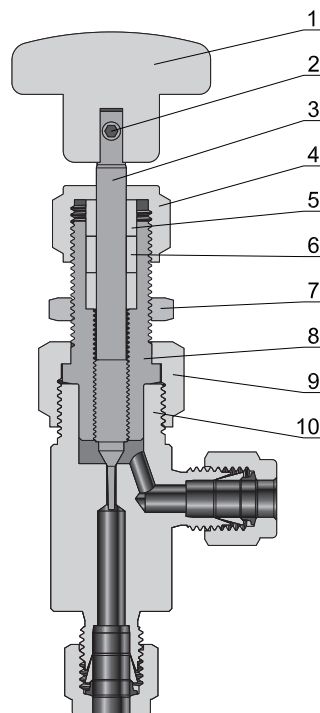
- ❖ Maximum working pressure: 5000 psig (344 bar)
- ❖ Working temperature: -65°F to 850°F (-54°C to 454°C)
- ❖ Orifice size: 0.062" (1.6 mm)
- ❖ Flow coefficient(Cv) : 0.04
- ❖ Stem taper: 2°
- ❖ Shutoff service: available
- ❖ Variety of end connections
- ❖ Panel mountable
- ❖ Flow pattern: straight and angle
- ❖ Handle type: round

Pressure vs. Temperature

Body Material	316 S.S.
Temperature, °F(°C)	Working Pressure,psig(bar)
-65 (-53) to 100 (37)	5000 (344)
200 (93)	4295 (295)
300 (148)	3875 (266)
400 (204)	3560 (245)
500 (260)	3310 (228)
600 (315)	3130 (215)
650 (343)	3080 (212)
700 (371)	3000 (206)
750 (398)	2930 (201)
800 (426)	2980 (198)
850 (454)	2815 (193)

Standard Materials of Construction

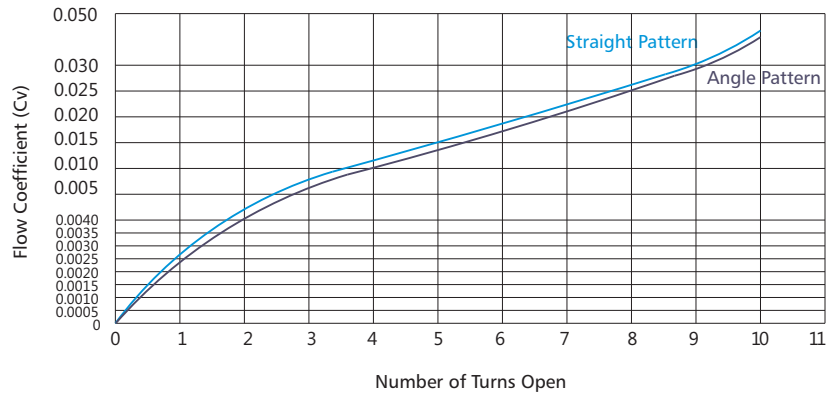
Component	Material Grade/ASTM Specification	
	316 S.S.	
1	Handle	Anodized aluminum
2	Handle Screw	Black oxide alloy steel/ANSI 18.3
3	Stem	440C S.S./A276
4	Packing nut	316 S.S./A276
5	Gland	316 S.S./A276
6	Packing	PTFE/D1710
7	Panel Nut	316 S.S./B783
8	Bonnet	316 S.S./A479
9	Union nut	316 S.S./A276
10	Body	316 S.S./A479



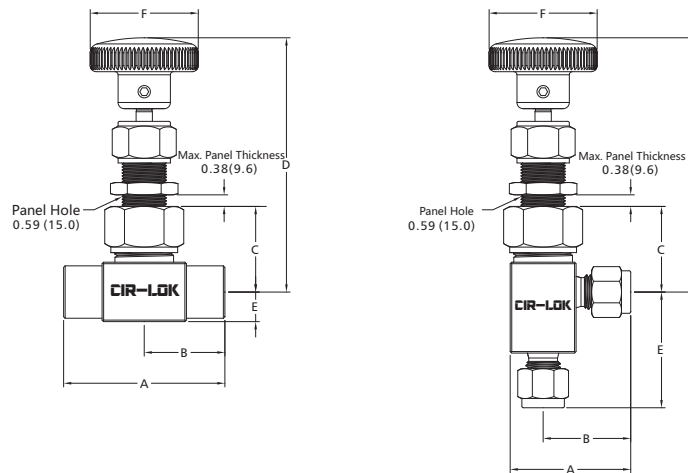
Flow Data at 70°F (20°C)

Pressure Drop to Atmosphere psig (bar)	Air Flow std ft ³ /min ³ (std L/min)	Water Flow U.S. gal/min (L/min)
10 (0.69)	0.45 (12.7)	0.12 (0.45)
50 (3.45)	1.2 (33.9)	0.28 (1.0)
100 (6.90)	2.1 (59.4)	0.40 (1.5)

Flow Coefficient at Turns Open



Dimensions



Basic Ordering Number	Connection Type and Size	Dimension, in. (mm)					
		A	B	C	D	E	F
Straight Pattern							
MV4-F4-	1/4" CIR-LOK	2.40 (61.0)	1.20 (30.5)	1.09 (27.7)	3.60 (91.4)	0.38 (9.6)	1.38 (35.1)
MV4-M6-	6 mm CIR-LOK						
MV4-FNPT2-	1/8 Female NPT	2.00 (50.8)	1.00 (25.4)				
MV4-FNPT4-	1/4 Female NPT	2.06 (52.3)	1.03 (26.2)				
Angle Pattern							
MV4-F4-	1/4" CIR-LOK	1.54 (39.1)	1.16 (29.5)	1.09 (27.7)	3.60 (91.4)	1.48 (37.6)	1.38 (35.1)
MV4-M6-	6 mm CIR-LOK						
MV4-FNPT2-	1/8 Female NPT	1.28 (32.5)	0.91 (23.1)	1.28 (32.5)	3.80 (96.5)	1.00 (25.4)	
MV4-FNPT4-	1/4 Female NPT						

How to Order

MV4— NPT4 — M6 — G — A — 316

Series	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Packing Material	Flow Pattern	Material		
MV4	FNPT Female NPT	1 1/16 in.	Same as inlet type and inlet size		PTEE	Straight	316 316 S.S.		
	NPT Male NPT	2 1/8 in.					G Graphite	A Angle	316L 316L
	FBT Female BSPT	3 3 mm					If outlet and inlet are the same, eliminate the outlet designator		
	MBT Male BSPT	4 1/4 in.	304L 304L						
	FMS Female ISO 261	6 3/8 in. or 6 mm	BR Brass						
	MS Male ISO 261	8 1/2 in. or 8 mm							
	FBP Female BSPP	10 10 mm							
	MBP Male BSPP	12 3/4 in. or 12 mm							
	F Fractional Tube Fitting								
	M Metric Tube Fitting								
	GFS Male GFS Fitting								