



# 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

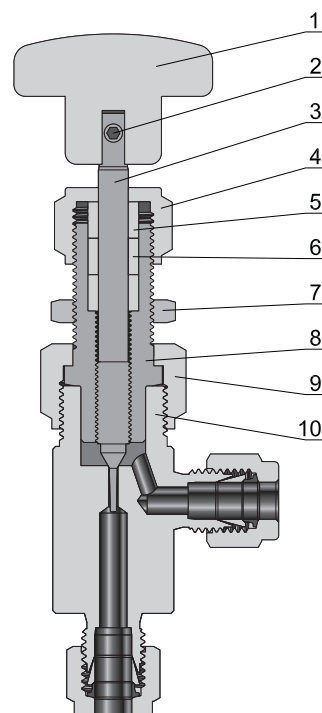
- ❖ Maximum working pressure: 5000 psig (344 bar)
- ❖ Working temperature: -65°F to 850°F (-54°C to 454°C)
- ❖ Orifice size: 0.062" (1.6 mm)
- ❖ Flow coefficient(Cv) : 0.04
- ❖ Stem taper: 2°
- ❖ Shutoff service: available
- ❖ Variety of end connections
- ❖ Panel mountable
- ❖ Flow pattern: straight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

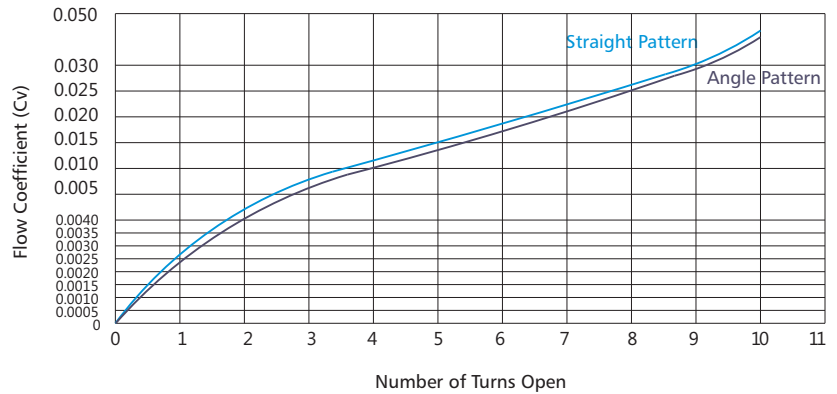
Component	Material Grade/ASTM Specification	
	316 S.S.	
1	Handle	Anodized aluminum
2	Handle Screw	Black oxide alloy steel/ANSI 18.3
3	Stem	440C S.S./A276
4	Packing nut	316 S.S./A276
5	Gland	316 S.S./A276
6	Packing	PTFE/D1710
7	Panel Nut	316 S.S./B783
8	Bonnet	316 S.S./A479
9	Union nut	316 S.S./A276
10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



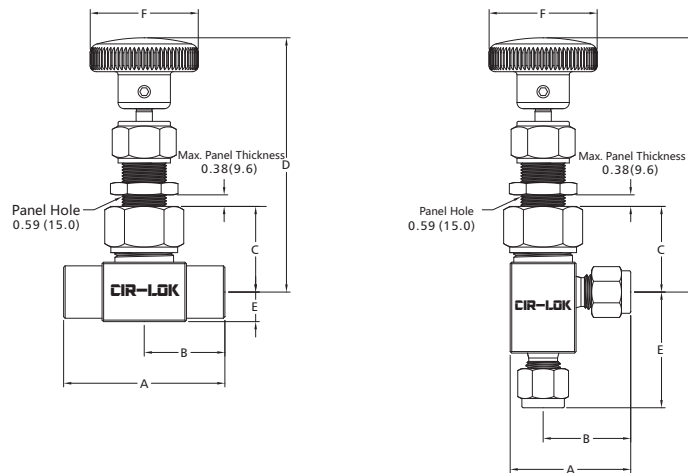
### Flow Data at 70°F (20°C)

Pressure Drop to Atmosphere psig (bar)	Air Flow std ft <sup>3</sup> /min <sup>3</sup> (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
<b>Straight Pattern</b>							
MV4-F4-	1/4" Hikelok	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 Hikelok						
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)				
<b>Angle Pattern</b>							
MV4-F4-	1/4" Hikelok	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 Hikelok						
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	<b>FNPT</b> Female NPT	<b>1</b> 1/16 in.	Same as inlet type and inlet size		PTEE	Straight	<b>316</b> 316 S.S.		
	<b>NPT</b> Male NPT	<b>2</b> 1/8 in.					<b>G</b> Graphite	<b>A</b> Angle	<b>316L</b> 316L
	<b>FBT</b> Female BSPT	<b>3</b> 3 mm					If outlet and inlet are the same, eliminate the outlet designator		
	<b>MBT</b> Male BSPT	<b>4</b> 1/4 in.	<b>304L</b> 304L						
	<b>FMS</b> Female ISO 261	<b>6</b> 3/8 in. or 6 mm	<b>BR</b> Brass						
	<b>MS</b> Male ISO 261	<b>8</b> 1/2 in. or 8 mm							
	<b>FBP</b> Female BSPP	<b>10</b> 10 mm							
	<b>MBP</b> Male BSPP	<b>12</b> 3/4 in. or 12 mm							
	<b>F</b> Fractional Tube Fitting								
	<b>M</b> Metric Tube Fitting								
	<b>GFS</b> Male GFS Fitting								