Technical Information

General Description

Series MV high-precision metering and shut-off valves allow extremely close control of fluids used in actuating and governing equipment.

Operation

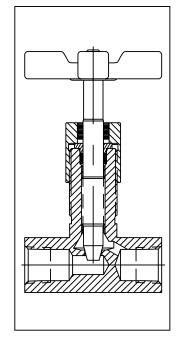
The standard needle allows fine adjustment at low flow by using the first three turns of the adjusting knob. The next three turns open the valve to full flow, and also provide standard throttling adjustments.

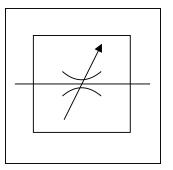
Features

- The exclusive "Colorflow" color-band reference scale on the valve stem is a great convenience and time-saver in setting the valve originally and in returning it to any previous setting.
- Fine and Micro-fine needles available for extremely fine control.
- MVK mounting kit makes panel mounting simple.
- High efficiency o-ring stem seal that eliminates packing.

Specifications

Maximum Operating Pressure	Brass:	140 Bar (2000 PSI); except for MV1600 brass which is 35 Bar (500 PSI				
	Steel:	413 Bar (6000 PSI) for MV261, 461, 661, 861.				
		345 Bar (5000 PSI) for MV200, 400, 401, 420, 600, 601,620, 800, 820, 1020, 1200, 1220.				
		207 Bar (3000 PSI) for all other sizes and styles.				
Material	Body:	see ordering code				
	Handle: Zinc alloy - Zinc chromate					
	Needle:	eedle: 416 Stainless Steel				
Operating Temperature	-40°C to +121°C (-40°F to +250°F) Nitrile (standard)					
	-26°C to +205°C (-15°F to +400°F) Fluorocarbon					

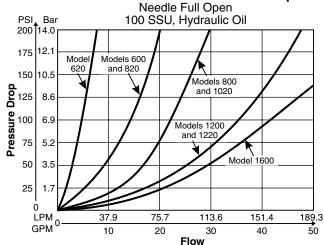




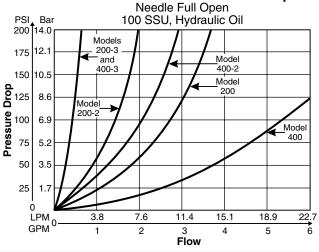


Performance Curves

Controlled Flow vs. Pressure Drop

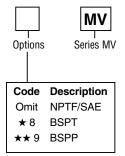


Controlled Flow vs. Pressure Drop

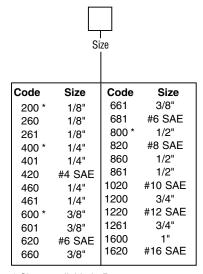




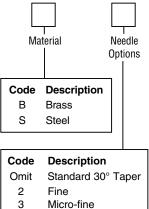
Ordering Information



- ★ Code 8 can be used with sizes 400, 600, 800 Steel only
- ★★ Code 9 can be used with sizes 200, 261, 400, 461, 600, 661, 800, 861, 1200, 1261, 1600



- * Sizes available in Brass 00 is Female to Female
- 01 is Female to Male 6* is Right Angle
- 60 is Male to Female
- 61 is Female to Female



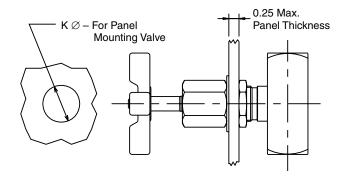
2 and 3 available only in Series 200, 400, 600 and 620.

— Se		レ _ー コ Design Series			
	Not re	NOTE: Not required when ordering.			
Code	Description				
Omit	Nitrile (Standard)				
V	Fluorocarbon				
<u>-</u>		-			

Model Number	Effective Orifice Area Max Flow LPM (GPM)		Control Flow in. ²	Effective Control Flow C _v		
MV200	11	(3)	0.0107	0.244		
MV420	11	(3)	0.0107	0.244		
MV200-2	7	(1.8)	0.0053	0.121		
MV200-3	2	(0.5)	0.0014	0.032		
MV400	19	(5)	0.0216	0.493		
MV620	19	(5)	0.0216	0.493		
MV400-2	11	(2.8)	0.0081	0.186		
MV400-3	2	(0.5)	0.0017	0.039		
MV600	30	(8)	0.0567	1.294		
MV820	30	(8)	0.0567	1.294		
MV800	57	(15)	0.0845	1.930		
MV1020	57	(15)	0.0845	1.930		
MV1200	95	(25)	0.1400	3.205		
MV1220	95	(25)	0.1400	3.205		
MV-1600	151	(40)	0.1675	3.829		
MV-1620	151	(40)	0.1675	3.829		

G

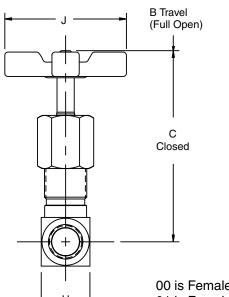
Mounting Kit



Panel Mounting Kits							
Kit Number	K	Valve Model	Kit Number	K	Valve Model		
MVK2	15.0 (0.59)	MV200 MV260 MV261S	MVK8	29.5 (1.16)	MV800 MV861S MV1020		
MVK4	19.8	MV420 MV400 MV401 MV460S MV461S MV620 MV681	MVK12	35.8 (1.41)	MV1200 MV1261		
	(0.78)		MVK16	35.8 (1.41)	MV-1600 MV-1620		
MVK6	23.1 (0.91)	MV600 MV601 MV660 MV661S MV820					

2502-G1.p65, dd







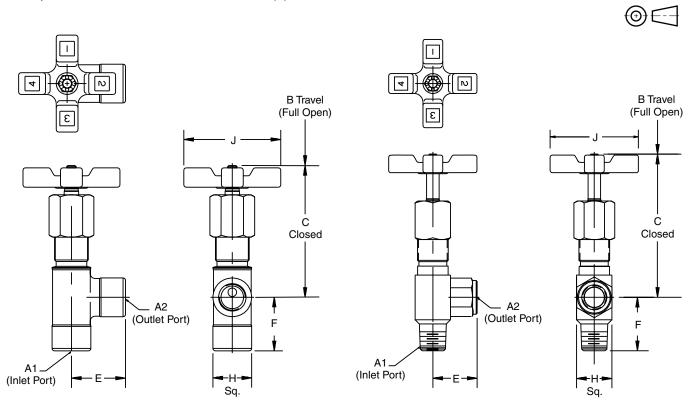
00 is Female to Female 01 is Female to Male

Model Number	Weight kg (lbs.)	A1	A2	В	С	D	E	F	Н	J
MV200	0.1 (0.3)	1/8–27 NPTF Female	1/8–27 NPTF Female	69.1 (2.72)	63.8 (2.51)	38.1 (1.50)	19.1 (0.75)		15.7 (0.62)	44.5 (1.75)
MV400	0.3 (0.7)	1/4-18 NPTF Female	1/4-18 NPTF Female	86.9 (3.42)	81.5 (3.21)	50.8 (2.00)	25.4 (1.00)		20.6 (0.81)	50.8 (2.00)
MV401	0.3 (0.7)	1/4-18 NPTF Male	1/4-18 NPTF Female	86.9 (3.42)	81.5 (3.21)	55.4 (2.18)	30.0 (1.18)		20.6 (0.81)	50.8 (2.00)
MV620	0.5 (1.0)	9/16–18 UNF #6 SAE	9/16–18 UNF #6 SAE	89.2 (3.51)	83.8 (3.30)	60.5 (2.38)	30.2 (1.19)		25.4 (1.00)	50.8 (2.00)
MV600	0.5 (1.2)	3/8-18 NPTF Female	3/8-18 NPTF Female	99.6 (3.92)	91.9 (3.62)	63.5 (2.50)	31.8 (1.25)		25.4 (1.00)	63.5 (2.50)
MV601	0.5 (1.1)	3/8-18 NPTF Male	3/8-18 NPTF Female	99.6 (3.92)	91.9 (3.62)	68.1 (2.68)	36.3 (1.43)		25.4 (1.00)	63.5 (2.50)
MV820	0.5 (1.2)	3/4–16 UNF #8 SAE	3/4–16 UNF #8 SAE	108.7 (4.28)	101.1 (3.98)	76.2 (3.00)	38.1 (1.50)		28.4 (1.12)	63.5 (2.50)
MV800	1.0 (2.1)	1/2-14 NPTF Female	1/2-14 NPTF Female	129.3 (5.09)	116.6 (4.59)	66.5 (2.62)	33.3 (1.31)		31.8 (1.25)	82.6 (3.25)
MV1020	1.0 (2.1)	7/8–14 UNF #10 SAE	7/8–14 UNF #10 SAE	129.5 (5.10)	116.6 (4.59)	88.9 (3.50)	44.5 (1.75)		31.8 (1.25)	82.6 (3.25)
MV1200	1.6 (3.50)	3/4-14 NPTF Female	3/4-14 NPTF Female	141.8 (5.58)	127.8 (5.03)	82.6 (3.25)	41.1 (1.62)		38.1 (1.50)	98.6 (3.88)
MV1221	1.6 (3.50)	1 1/16–12 UNF #12 SAE	1 1/16–12 UNF #12 SAE	141.8 (5.58)	127.8 (5.03)	101.6 (4.00)	50.8 (2.00)		38.1 (1.50)	98.6 (3.88)
MV1600	1.9 (4.20)	1-11 1/2 NPTF Female	1-11 1/2 NPTF Female	146.8 (5.78)	132.8 (5.23)	108.0 (4.25)	53.8 (2.12)		44.5 (1.75)	98.6 (3.88)

An optional MVK mounting kit makes panel mounting quite simple.

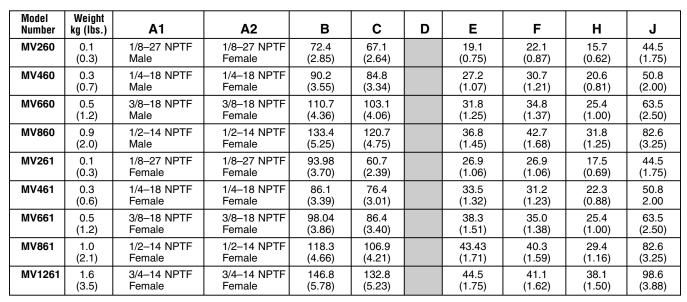
2502-G1.p65, dd





61 is Female to Female

60 is Male to Female



An optional MKV mounting kit makes panel mounting quite simple.