

# MV 3-Way Switches

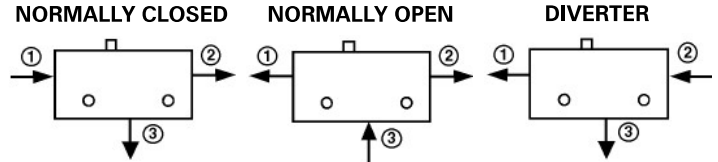


\* For 15/32" panel openings; 15/32-32 UNS

Mead's MV air switches are 3-way 1/8" ported air pilot valves that are identical in size, actuating style, and mounting characteristics to most industrial type electric limit switches. Use them in place of electric limits to save on hookup cost and eliminate spark hazard. MV valves simplify circuits by eliminating the need for wire shielding, transformers, and solenoids.

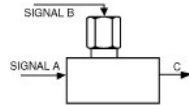
The MV air switch may be piped normally closed, normally open, or as a diverter. These alternatives are described in detail below.

General Specifications	
<b>Pressure Range:</b>	Vacuum to 120 PSI
<b>Media:</b>	Air or Inert Gas
<b>Flow:</b>	0.11 C <sub>v</sub>
<b>Flow at 100 PSI:</b>	6 SCFM
<b>Ports:</b>	1/8" NPT
<b>Cycle Life:</b>	7-10 million
<b>Force to Actuate:</b>	As Low as 6.4 Ounces
<b>Max. Ambient Temp.:</b>	115°F
<b>Lubrication:</b>	Not Required
<b>Filtration:</b>	40 Micron
<b>Seals:</b>	Viton
<b>Spool:</b>	Dupont Teflon®
<b>Body:</b>	Cast Zinc



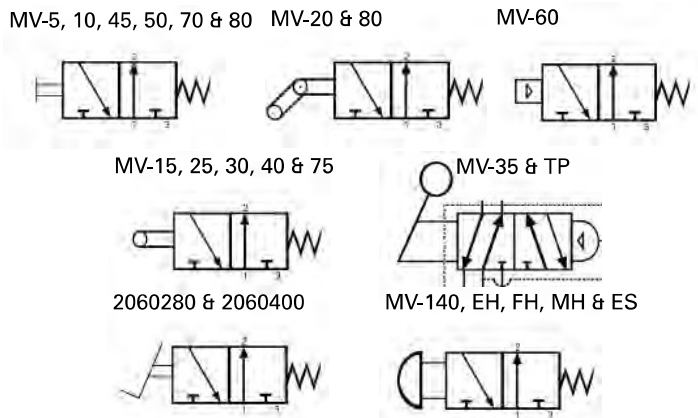
<p><b>NORMALLY CLOSED</b></p> <p>Pressurized air flows from 1 to 2 when button is pushed.</p> <p>Exhaust air flows from 2 to 3 when button is released.</p>	<p><b>NORMALLY OPEN</b></p> <p>Pressurized air flows from 3 to 2 when button is not pushed.</p> <p>Exhaust air flows from 2 to 1 when button is pressed.</p>	<p><b>DIVERTER</b></p> <p>Pressurized air flows from 2 to 1 when button is pushed.</p> <p>Pressurized air flows from 2 to 3 when button is released. This hookup does not provide for exhaust.</p>
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### Perform "AND" Logic Function With MV-60



This hookup provides that flow will occur at C only when air signals are received at A and B. The MV-60 is a 3-way air piloted valve.

### Valve Symbols

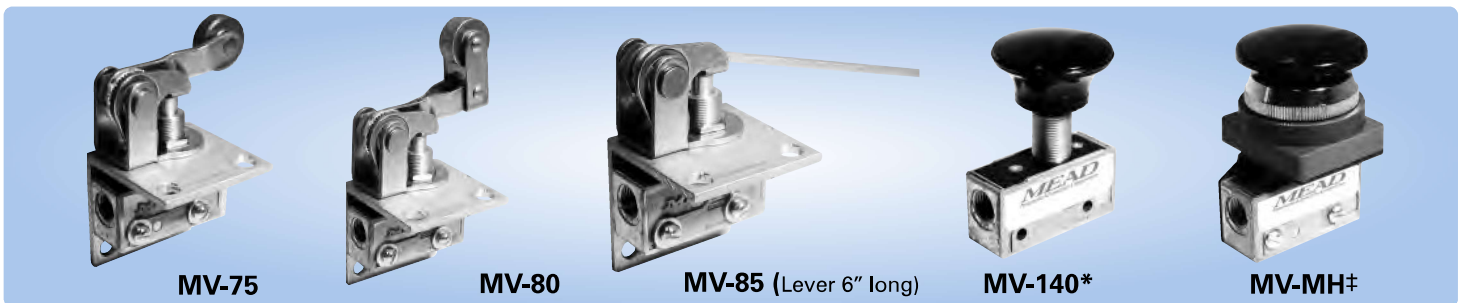


### Add Push to Connect 1/4" Fittings



MV-45-C4

MV valves are available with 1/4" brass push to connect fittings. The valve will be provided with a fitting for the inlet, outlet and the exhausts ports. Any MV valve may utilize this option. The valve's body height increases by 5/16" and the mounting holes are 0.532" apart.

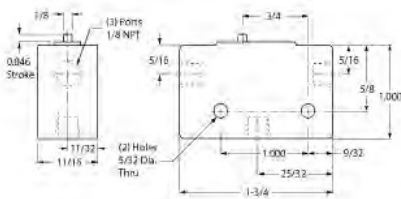


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Basic Valve Dimensions



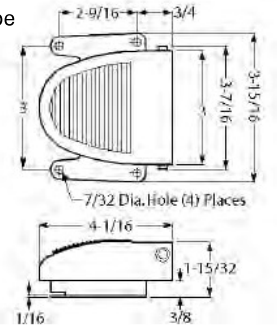
Envelope dimensions of valves are shown in the chart below.

Model	Actuator	Act. Force lbs. @ 100 PSI		Act. Stroke Distance			Envelope Dimensions		
		NC	NO	To Crack Open	To Full Open	To Over Travel	Len.	Wid.	Hgt.
MV-5	Pin Plunger	2.5	3.3	.035	.046	.035	1 3/4	1 1/16	1
MV-10	Straight Leaf	1.2	1.5	.100	.137	.079	2 3/16	1 1/16	1 1/4
MV-15	Steel Roller	1.0	1.3	.100	.137	.079	2 3/16	1 1/16	1 5/8
MV-20	1-Way Roller Leaf	1.0	1.3	.100	.137	.079	2 3/16	1 1/16	2 1/16
MV-25	Roller Plunger	2.8	3.5	.035	.046	.155	1 3/4	1 1/16	2 3/16
MV-30	Cross Roller	2.8	3.5	.035	.046	.155	1 3/4	1 1/16	2 3/16
MV-35	Flip Toggle	1.5	2.3	35°	35°	35°	1 3/4	1 1/16	2 5/16
MV-40	Ball Roller	2.5	3.3	.035	.046	.035	1 3/4	1 1/16	1 19/32
MV-45	Straight Plunger	2.5	3.3	.035	.046	.155	1 3/4	1 1/16	1 29/32
MV-50	Fingertip Lever	1.0	1.3	.100	.137	.079	2 5/8	1 1/16	1 3/8
MV-60	Pressure Piloted	40*	40*	-	-	-	1 3/4	1 1/16	1 5/8
MV-70	Extended Leaf	0.7	1.0	.255	.315	.195	4 1/2	1 1/16	1 9/16
MV-75	HD Roller Leaf	2.8	3.5	.093	.119	.129	2 1/4	1 3/4	3 7/16
MV-80	HD 1-Way Roller	2.8	3.5	.093	.119	.129	2 1/8	1 3/4	4 1/8
MV-85	HD Extended Rod	0.4	0.6	.637	.782	.330	6 1/4	1 3/4	3 1/8
MV-90	Nylon Roller	1.0	1.3	.100	.137	.079	2 3/16	1 1/16	1 5/8
MV-140	Palm Actuator	2.5	3.3	-	-	-	1 3/4	1 3/8	2 1/4
MV-MH	Mushroom Head	-	-	-	-	-	1 3/4	1 1/2	2 5/8
MV-TP	Two Position	-	-	-	-	-	1 3/4	1 1/2	3 1/32
MV-FH	Flush Head	-	-	-	-	-	1 3/4	1 1/2	2 7/32
MV-EH	Extended Head	-	-	-	-	-	1 3/4	1 1/2	2 13/32
MV-ES	Emergency Stop	-	-	-	-	-	2 1/2	2 1/2	2 7/8
MV-EMS	Emergency Stop	-	-	-	-	-	1 3/4	1 5/8	3 1/4

\* PSI; NO=Normally Open, NC= Normally Closed

Model #2060400

Model has plug-in fittings for 1/4" OD tube



Model #2060400G (Guarded)



NOTE: 2060400 and 2060400G are provided with push to connect fittings as the C4 option (described on opposite page). For Normally Open applications or where all ports are needed, specify either 2060400-C5 or 2060400G-C5.



‡ For 1 3/16" panel opening