

PRESSURE-INDEPENDENT CONTROL VALVE

SPECIFICATIONS

Static Pressure:	580psid
Media Temperature:	-4° to 248°F
Ambient Temperature:	14° to 131°F
Body Material:	Ductile Iron, ASTM A536-65T, Class 60-45-18
Flow Regulation Unit:	316 Stainless Steel
Diaphragm:	EPDM
End Connections¹:	ANSI Class 300 ² ANSI Class 150
Stem Seals:	EPDM and Nitrile O-Rings
Test Ports:	1/4" ISO
Maximum Close Off Pressure:	101 PSID
Maximum Operational ΔP:	58 PSID

DIMENSIONS & WEIGHTS (NOMINAL) (measured in inches/lbs. unless noted)

MODEL NO.	SIZE	L	H1	H2	WEIGHT ³
MVP3__	2-1/2"	8.8"	9.7"	3.74"	27.8
	3"				
MVP4__	3"	12.6"	11.4"	5.3"	75
	4"				
MVP5__	5"	16.6"	13.3"	7.1"	148
	6"				

FLOW RATES

MODEL NO.	SIZE	PSID RANGE	MAXIMUM FLOW GPM	TURN DOWN RATIO – MAX FLOW	LOWEST MAX SETTING GPM	TURN DOWN RATIO – LOWEST MAX FLOW	SHUT OFF LEAKAGE	Cv
MVP31	2-1/2" / 3"	5.1 – 58	112	1:228	39	1:38	Leakage < 0.2% of Cv	45
MVP32	2-1/2" / 3"	11.6 – 58	155		55			45
MVP41	3" / 4"	5.1 – 58	147		55			88
MVP42	3" / 4"	8.6 – 58	222		73			88
MVP51	5" / 6"	5.1 – 58	370		103			178
MVP52	5" / 6"	8.6 – 58	469		118			178

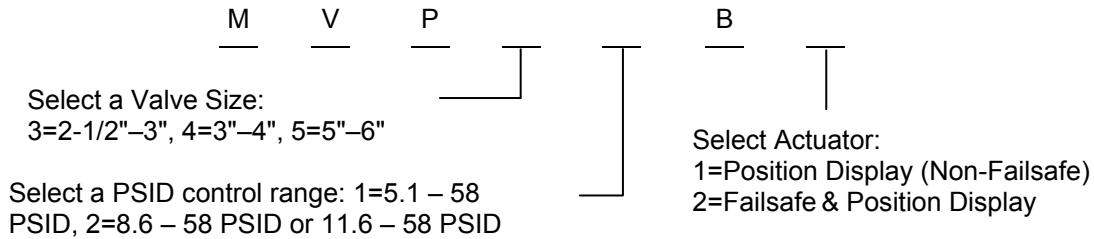
NOTES

¹ Studs and bolts are supplied for 2-1/2" / 3" valve only. Valves are not compatible with slip on flanges.
² 2-1/2" to 4" valves are compatible with both Class 150 and Class 300 flanges. 5"/6" valve is compatible with Class 150 flanges.
³ Weight includes valve and actuator.

Replaces form F-4271G

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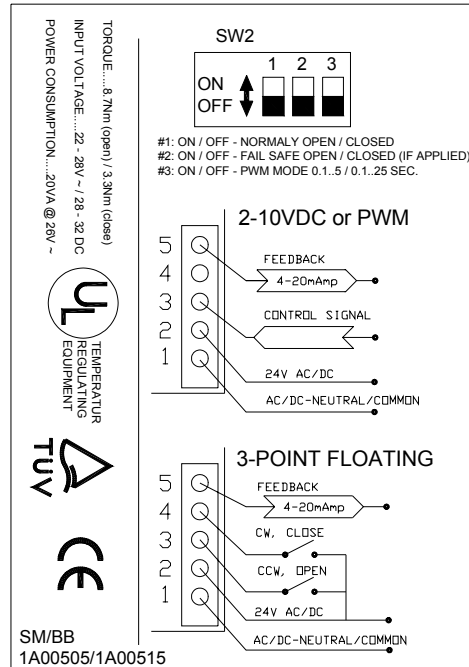
MODEL NUMBER SELECTION



ACTUATOR SPECIFICATIONS

- | | |
|-------------------------------|--|
| Supply Voltage: | 22-26 Volt AC or 28-32 Volt DC |
| Power Consumption: | 20 VA |
| Frequency: | 50/60 HZ |
| Control Input: | 2-10 VDC
4-20mA
3-point floating
Pulse Width Modulation |
| Position Output: | 2-10 VDC 4-20mA |
| Turn Time: | 150 seconds (from closed to fully open) |
| Electrical Connection: | 15mm Grommet connection |
| Direction of Rotation: | Bi-directional |
| Humidity Rating: | Fully Coated Electronic Board |
| Housing Insulation: | IP 44 |

Wiring:



GENERAL DESCRIPTION

MVP Series Valves are self-balancing, dynamic flow control valves that are pressure independent, two-way, modulating to accept digital or analog input signals. The valves accept 2-10 VDC, 4-20 mA or digital 3-point floating input signals. Each valve has an adjustable maximum flow rate setting to enable flow limitation and balancing to the coils or zones that the valves are controlling.

All MVP actuators are microprocessor based with a self-calibrating feature.

The valve is wafer style for fitting between flanges.

Replaces form F-4271G

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