

PRESSURE-INDEPENDENT CONTROL VALVE

SPECIFICATIONS

Static Pressure:	360 PSID
Media Temperature:	-22° to 248°F
Ambient Temperature:	14° to 131°F
Body Material:	Forged Brass ASTM B584
Flow Regulation Unit:	304 Stainless Steel
Diaphragm:	Hydrogenated acrylonitrile butadiene rubber
End Connections:	Bronze Alloy ISO, NPT or Sweat
Stem Seals:	EPDM and Nitrile O-Rings
Body Tappings :	1/4" ISO
Maximum Close Off Pressure:	101 PSID
Maximum Operational ΔP:	46 PSID

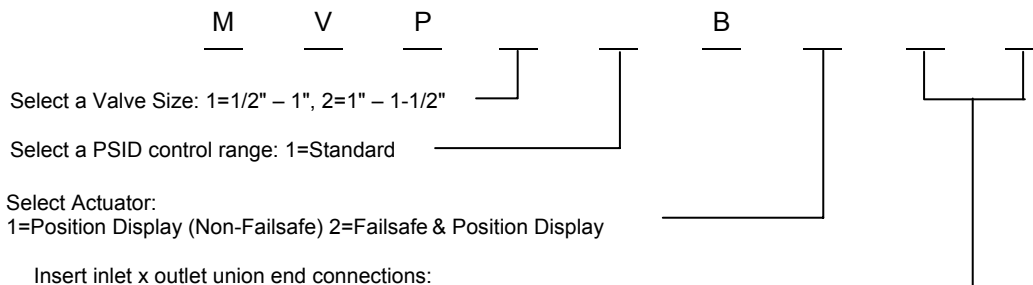
DIMENSIONS & WEIGHTS (NOMINAL) (measured in inches/lbs. unless noted)

MODEL NO.	SIZE	L	H1	H2	NPT/ANSI Connections ¹			WEIGHT ²
					FNPT	MNPT	SWT	
MVP11	1/2"	4.3"	8.7"	2.3"	0.88"	1"	0.6"	5.3
	3/4"				0.88"	1"	1.3"	
	1"				N/A	1.32"	1.25"	
MVP21	1"	5.9"	11"	2.5"	1.38"	1.58"	1.38"	10
	1-1/4"				1.38"	1.58"	1.44"	
	1-1/2"				1.38"	1.58"	1.58"	

FLOW RATES

MODEL NO.	SIZE	PSID RANGE	MAXIMUM FLOW GPM	LOWEST MAX SETTING GPM	SHUT OFF LEAKAGE
MVP11	1/2"	4.6 – 46	10.8	2.8	Leakage < 0.05% of Cv 5.1
	3/4"				
	1"				
MVP21	1"	5.8 – 46	37	8.4	Leakage < 0.05% of Cv 5.1
	1-1/4"				
	1-1/2"				

MODEL NUMBER SELECTION



Body Model & Size	Female Threaded	Female Sweat	Male Threaded
MVP1, 1/2" – 1"	E=1/2", F=3/4", G ³ =1"	K=3/8", L=1/2", M=3/4", N=1"	H=1/2", I=3/4", J=1"
MVP2, 1" – 1-1/2"	G=1", P=1-1/4", Q=1-1/2"	N=1", K=1-1/4", W=1-1/2"	H=1/2", I=3/4", J=1", S=1-1/4", T=1-1/2"

NOTES:

¹ Add end connection to body length.
² Weight includes valve and actuator.
³ Female threaded tailpiece not available; male threaded tailpiece used with adapter.

Replaces form F-4270E

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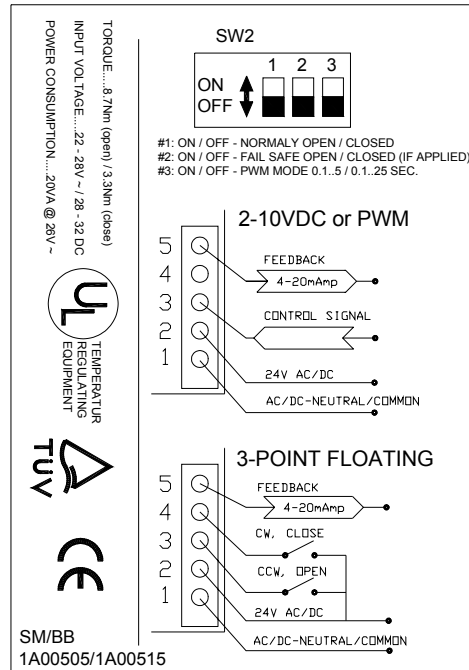
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ACTUATOR SPECIFICATIONS

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.

Replaces form F-4270E

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