

PRESSURE-INDEPENDENT CONTROL VALVE

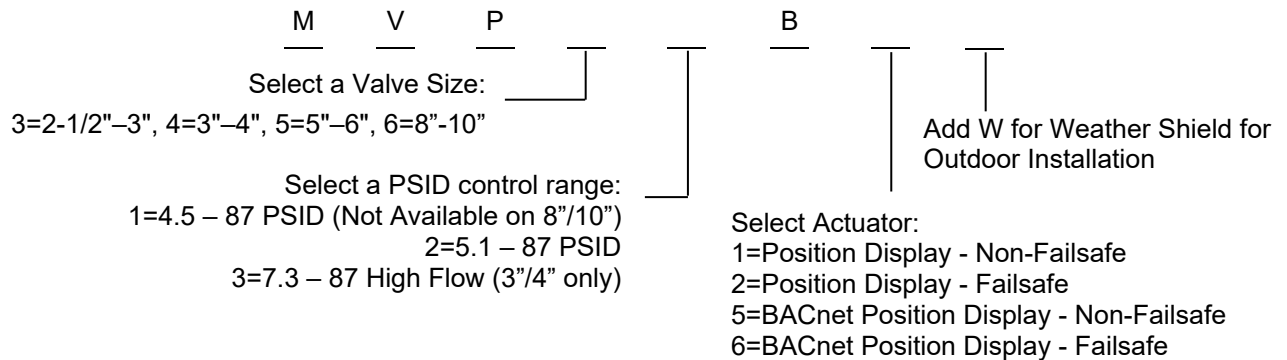
SPECIFICATIONS

Static Pressure:	580psid
Media Temperature:	-4° to 248°F
Ambient Temperature:	14° to 122°F
Body Material:	Ductile Iron, ASTM A395, Class 60-40-18
Flow Regulation Unit:	316 Stainless Steel
Diaphragm:	Hydrogenated acrylonitrile butadiene rubber
End Connections¹:	ANSI Class 150/300
Stem Seals:	EPDM and Nitrile O-Rings
Test Ports:	1/4" ISO
Maximum Close Off Pressure:	100 PSID
Maximum Operational ΔP:	87 PSID
Shut Off Leakage:	ANSI/FCI 70-2 2006 /IEC 60534-4 Class IV

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

MODEL NO.	SIZE	L	H1	H2	ASME B16.5 WELD NECK		ASME B16.5 SLIP ON		WEIGHT ²
					CLASS 150	CLASS 300	CLASS 150	CLASS 300	
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"				•	•	•	•	
MVP6__	8"	28.5"	18.6"	11.5"	•	•	•	•	547
	10"				•	•	•	•	

MODEL NUMBER SELECTION



NOTES

¹ Studs and bolts for installation are supplied by others.
² Weight includes valve and actuator.
 Replaces form F-4271

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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
MVP31	2-1/2" / 3"	4.5 – 87	113	1:228	40.7	1:38
MVP32	2-1/2" / 3"	5.1 – 87	157		56.3	
MVP41	3" / 4"	4.5 – 87	149		55.4	
MVP42	3" / 4"	5.1 – 87	225		75.0	
MVP43	3" / 4"	7.3 – 87	320		58.3	
MVP51	5" / 6"	4.5 – 87	369		103	
MVP52	5" / 6"	5.1 – 87	468		113	
MVP62	8" / 10"	5.1 - 87	1220		146	

ACTUATOR SPECIFICATIONS

- Supply Voltage:** 24V AC/DC
- Power Consumption:** 12 VA
- Frequency:** 50/60 HZ
- Control Input:** 0-10VDC, 2-10 VDC
0-20mA, 2-20mA
3-point floating
- Feedback Position Output:** Automatic Match of Control Input
- Turn Time:** 190 seconds (from closed to fully open)
- Electrical Connection:** 5 wires 22AWG halogen free cable, 1 meter
- Direction of Rotation:** Bi-directional
- Humidity Rating:** 5-95% RH non condensing
- Housing Insulation:** IP 54 including upside down mounting
- Housing Material:** UL94 V0-rated plastic
- Programming:** External programming of all settings, interface buttons and display
- Calibration:** Automatic calibration at start-up
- BACnet Device Profile:** BACnet Application Specific Controller (B-ASC) type server
- BACnet Protocol:** BACnet Master Slave/Token passing (MS/TP)
- BACnet Baud Rates:** Supported – 9600, 19200, 38400 and 76800
- BACnet Services (BIBBS):** DS-RP-B, DS-WP-B, DM-DDB-B, DM-DOB-B and DM-DCC-B



Listed temperature regulating equipment 41 X 9

Class 2 circuit

Replaces form F-4271

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9/17

F-4271L



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