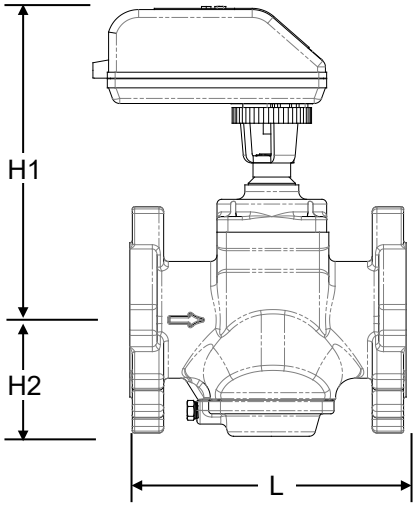
SPECIFICATIONS

Static Pressure:	580 PSI
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:	Stainless Steel & PPS (glass-reinforced)
Diaphragm:	HNBR
End Connections[1]:	ANSI Class 150/300
Stem Seals:	EPDM O-Rings
Test Ports:	1/4" ISO
Maximum Close Off Pressure:	116 PSID
Shut Off Leakage:	ANSI/FCI 70-2 206 /IEC 60534-4 Class IV



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

All dimensions are for planning purposes only and may change without notice.

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"	9.9"	3.7"	•	•	•	•	29
	3"				•	•			
MVP4__	3"	12.6"	11.3"	5.3"	•	•	•	•	71
	4"				•	•			
MVP5__	5"	16.6"	13.3"	7.1"	•	•	•	•	131
	6"				•				
MVP6__	8"	28.5"	18.4"	11.5"		•		•	506
	10"				•		•		

NOTES

[1] Studs and bolts for installation are supplied by others.
[2] Weight includes valve and actuator.

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MODEL NUMBER SELECTION

M V P _ _ B _ _

Select a Valve Size:
3=2-1/2"–3", 4=3"–4", 5=5"–6", 6=8"-10"

Select a PSID control range:
1=4.4 – 116 PSID (Not Available on 8"/10")
2=5.1 – 116 PSID
3=7.3 – 116 High Flow (3"/4" only)

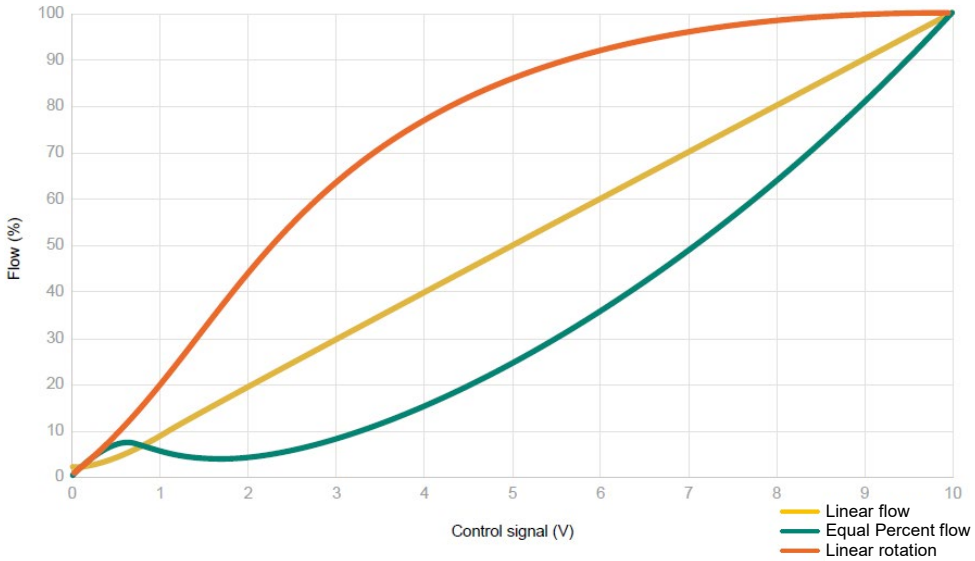
Add W for Weather Shield for Outdoor Installation

Select Actuator:
1=Standard - Non-Failsafe (9656-01/SM.0.0.1.3)
2=Standard - Failsafe (9656-02/SM.0.0.1.4)
5=BACnet / Modbus - Non-Failsafe (SM.0.0.1.5)
6=BACnet / Modbus - Failsafe (SM.0.0.1.6)

FLOW RATES

MODEL NO.	SIZE	PSID RANGE	LOWEST MAXIMUM SETTING (GPM)	FLOW INCREMENTS (GPM)	MAXIMUM FLOW SETTING (GPM)
MVP31	2-1/2" / 3"	4.4 – 116	1.13	1.13	113
MVP32	2-1/2" / 3"	5.1 – 116	1.57	1.57	157
MVP41	3" / 4"	4.4 – 116	1.49	1.49	149
MVP42	3" / 4"	5.1 – 116	2.25	2.25	225
MVP43	3" / 4"	7.3 – 116	3.20	3.20	320
MVP51	5" / 6"	4.4 – 116	3.69	3.69	369
MVP52	5" / 6"	5.1 – 116	4.68	4.68	468
MVP62	8" / 10"	5.1 - 116	12.2	12.2	1220

CONTROL CURVE



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ACTUATOR SPECIFICATIONS

Model:	#1: 9656-01 (SM.0.0.1.3) – **Standard** Non-Failsafe #2: 9656-02 (SM.0.0.1.4) – **Standard** Failsafe #5: SM.0.0.1.5 – **BACnet or Modbus** - Non-Failsafe #6: SM.0.0.1.6 – **BACnet or Modbus** - Failsafe
Supply Voltage:	24V AC ±20%, 50/60 Hz or 24V DC ±20%
Power Consumption:	Non-Failsafe: 24V AC: 2.2VA standby / 3.8VA operating / 15VA max Non-Failsafe: 24V DC: 1.0W standby / 1.7W operating / 8.0W max Failsafe: 24V AC: 3.3VA standby / 4.5VA operating / 15VA max Failsafe: 24V DC: 2.0W standby / 3.0W operating / 8.0W max
Type:	Electrical, Bi-directional synchronous motor
Control Signal:	0(2)-10VDC 0(4)-20mA Digital 3-point floating or 2-Position
Resolution:	1:1000 (0-10V analog) and 1:800 (2-10V analog)
Feedback:	Linear Flow Auto (equal to analog control signal), 0-10V DC, 2-10V DC or 4-20mA
Control Mode:	Linear flow, equal percentage or linear rotation
Failsafe Setting:	Only 9656-02/ (SM.0.0.1.4) and SM.0.0.1.6: Fail in place or settable 0-100% open
Turn Time:	MVP3-5: 190 seconds (from closed to fully open) MVP6: 317 seconds
Stroke:	MVP3-5: 2160°; MVP6: 3600°
Actuator Torque:	79.66 in-lbs opening / 66.38 in-lbs closing
Electrical Connection:	Standard: Fixed, 5 wires x 0.75 mm2 / AWG18, halogen free, 1 meter / 3 ft BACnet/Modbus: Fixed, 7 wires x 0.75 mm2 / AWG18, halogen free, 1 meter / 3 ft
Direction of Rotation:	Bi-directional
CE conformity:	EN 60730, class II
Humidity Rating:	5-95% RH non condensing
Housing Insulation:	IP 54 including upside down mounting
Housing Material:	UL94 V0-rated plastic; top: PA (glass-reinforced), bottom: PC (glass-reinforced)
Programming:	External programming of all settings, interface buttons and display
Calibration:	Automatic calibration at start-up

Class 2 circuit

Listed temperature regulating equipment 41 X 9

ACTUATOR SPECIFICATIONS (BACnet / Modbus only)

BACnet Device Profile:	BACnet Application Specific Controller (B-ASC) type server
BACnet Protocol:	BACnet MS/TP
BACnet Fallback action:	Yes
BACnet Services (BIBBS):	DS-RP-B, DS-WP-B, DM-DDB-B, DM-DOB-B and DM-DCC-B
Modbus/BACnet Baud:	9600,19200,38400,76800 and 115200 Supported
Modbus/BACnet Interface:	EIA-485 / RS-485
Modbus/BACnet Participants:	Up to 32 recommended, max. 127 participants
Modbus/BACnet Load:	1/8
Modbus Transmission:	RTU slave
Modbus Start/Stop Bits:	8N2 (standard)

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