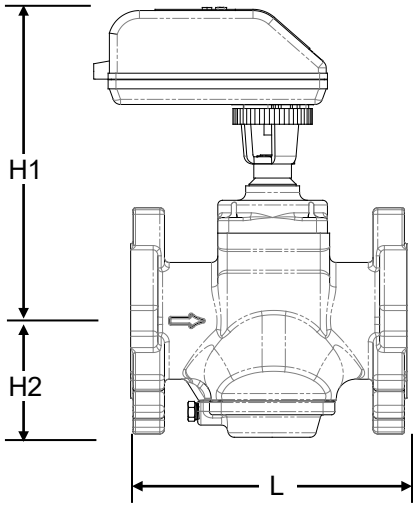
## SPECIFICATIONS

| | |
|---|---|
| **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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12/25
F-4271N

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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)

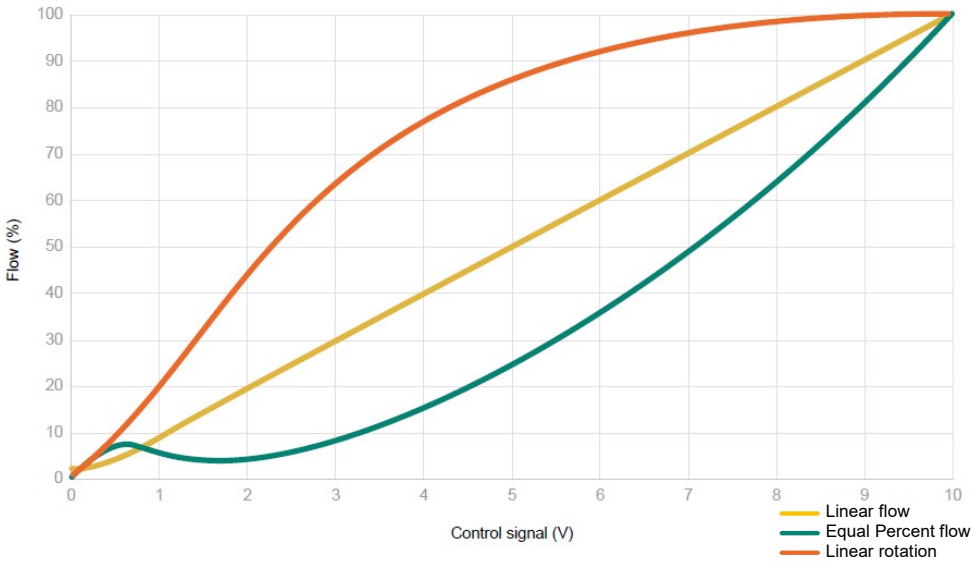
Add W for Weather Shield for Outdoor Installation

Select Actuator:
1=Standard - Non-Failsafe (SM.0.0.1.3)
2=Standard - Failsafe (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: SM.0.0.1.3 – Standard Non-Failsafe<br>#2: SM.0.0.1.4 – Standard Failsafe<br>#5: SM.0.0.1.5 – BACnet or Modbus - Non-Failsafe<br>#6: SM.0.0.1.6 – BACnet or Modbus - Non-Failsafe |
| **Supply Voltage:** | 24V AC ±20%, 50/60 Hz or 24V DC ±20% |
| **Power Consumption:** | SM.0.0.1.3/5: 24V AC: 2.2VA standby / 3.8VA operating / 15VA max<br>SM.0.0.1.3/5: 24V DC: 1.0W standby / 1.7W operating / 8.0W max<br>SM.0.0.1.4/6: 24V AC: 3.3VA standby / 4.5VA operating / 15VA max<br>SM.0.0.1.4/6: 24V DC: 2.0W standby / 3.0W operating / 8.0W max |
| **Type:** | Electrical, Bi-directional synchronous motor |
| **Control Signal:** | 0(2)-10VDC<br>0(4)-20mA<br>Digital 3-point floating or 2-Position |
| **Feedback:** | Linear Flow<br>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:** | SM.0.0.1.4/6: 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° |
| **Electrical Connection:** | SM.0.0.1.3/4: Fixed, 5 wires x 0.75 mm2 / AWG18, halogen free, 1 meter / 3 ft<br>SM.0.0.1.5/6: 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 |
| **BACnet Device Profile:** | BACnet Application Specific Controller (B-ASC) type server |
| **BACnet Interface:** | EIA-285 / RS-485 |
| **BACnet Protocol:** | BACnet MS/TP |
| **BACnet Baud Rates:** | 9600,19200,38400,76800 and 115200 |
| **BACnet Services (BIBBS):** | DS-RP-B, DS-WP-B, DM-DDB-B, DM-DOB-B and DM-DCC-B |
| **BACnet Participants:** | Up to 32 recommended, max. 127 participants |
| **BACnet Load:** | 1/8 |

Listed temperature regulating equipment 41 X 9

Class 2 circuit

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