PRESSURE-INDEPENDENT CONTROL VALVE

SPECIFICATIONS

Static Pressure: 580psid
Media Temperature: -4°F to 248°F
Ambient Temperature: 14°F 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 Connections: 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)

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>SIZE</th>
<th>L</th>
<th>H1</th>
<th>H2</th>
<th>ASME B16.5 WELD NECK</th>
<th>ASME B16.5 SLIP ON</th>
<th>WEIGHT²</th>
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<tr>
<td></td>
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<td></td>
<td>CLASS 150</td>
<td>CLASS 300</td>
<td>CLASS 150</td>
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<tr>
<td>MVP3___</td>
<td>2-1/2”</td>
<td>8.8”</td>
<td>9.7”</td>
<td>3.74”</td>
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<td></td>
<td>3”</td>
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<tr>
<td>MVP4___</td>
<td>3”</td>
<td>12.6”</td>
<td>11.4”</td>
<td>5.3”</td>
<td>•</td>
<td>•</td>
<td>•</td>
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<tr>
<td></td>
<td>4”</td>
<td></td>
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<td>•</td>
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<td>•</td>
</tr>
<tr>
<td>MVP5___</td>
<td>5”</td>
<td>16.6”</td>
<td>13.3”</td>
<td>7.1”</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>6”</td>
<td></td>
<td></td>
<td></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>MVP6___</td>
<td>8”</td>
<td>28.5”</td>
<td>18.6”</td>
<td>11.5”</td>
<td>•</td>
<td>•</td>
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<td>10”</td>
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</table>

MODEL NUMBER SELECTION

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

Select a PSID control range:
1=4.5 – 87 PSID (Not Available on 8”/10”)
2=5.1 – 87 PSID
3=7.3 – 87 High Flow (3”/4” only)

Select Actuator:
1=Position Display - Non-Failsafe
2=Position Display - Failsafe
5=BACnet Position Display - Non-Failsafe
6=BACnet Position Display - Failsafe

± Add W for Weather Shield for Outdoor Installation

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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(949) 559-6000 Fax (949) 559-6088
www.GriswoldControls.com
FLOW RATES

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>SIZE</th>
<th>PSID RANGE</th>
<th>MAXIMUM FLOW GPM</th>
<th>TURN DOWN RATIO – MAX FLOW</th>
<th>LOWEST MAX SETTING GPM</th>
<th>TURN DOWN RATIO – LOWEST FLOW</th>
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</thead>
<tbody>
<tr>
<td>MVP31</td>
<td>2-1/2&quot; / 3&quot;</td>
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<td>157</td>
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</table>

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