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)

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>SIZE</th>
<th>L</th>
<th>H1</th>
<th>H2</th>
<th>FNPT</th>
<th>MNPT</th>
<th>SWT</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP1</td>
<td>3/4&quot;</td>
<td>4.3&quot;</td>
<td>8.7&quot;</td>
<td>2.3&quot;</td>
<td>0.88&quot;</td>
<td>1&quot;</td>
<td>0.6&quot;</td>
<td>5.3</td>
</tr>
<tr>
<td></td>
<td>1&quot;</td>
<td></td>
<td></td>
<td></td>
<td>0.88&quot;</td>
<td>1&quot;</td>
<td>1.3&quot;</td>
<td></td>
</tr>
<tr>
<td>MVP2</td>
<td>1-1/4&quot;</td>
<td>5.9&quot;</td>
<td>11&quot;</td>
<td>2.5&quot;</td>
<td>1.38&quot;</td>
<td>1.58&quot;</td>
<td>1.44&quot;</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>1-1/2&quot;</td>
<td></td>
<td></td>
<td></td>
<td>1.38&quot;</td>
<td>1.58&quot;</td>
<td>1.58&quot;</td>
<td></td>
</tr>
</tbody>
</table>

FLOW RATES

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>SIZE</th>
<th>PSID RANGE</th>
<th>MAXIMUM FLOW GPM</th>
<th>LOWEST MAX SETTING GPM</th>
<th>SHUT OFF LEAKAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP1</td>
<td>1/2&quot;</td>
<td>4.6 – 46</td>
<td>10.8</td>
<td>2.8</td>
<td>Leakage &lt; 0.05% of Cv 5.1</td>
</tr>
<tr>
<td></td>
<td>3/4&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MVP2</td>
<td>1-1/4&quot;</td>
<td>5.8 – 46</td>
<td>37</td>
<td>8.4</td>
<td>Leakage &lt; 0.05% of Cv 5.1</td>
</tr>
<tr>
<td></td>
<td>1-1/2&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MODEL NUMBER SELECTION

Select a Valve Size: 1=1/2" – 1", 2=1" – 1-1/2"
Select a PSID control range: 1=Standard
Select Actuator: 1=Position Display (Non-Failsafe) 2=Failsafe & Position Display

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

This specification © 2006 Griswold Controls

2803 Barranca Parkway, Irvine, CA 92606
(949) 559-6000 Fax (949) 559-6088
www.GriswoldControls.com
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
Position Output: 2-10 VDC, 4-20mA
Turn Time: 150 seconds (from closed to fully open)
Electrical Connection: 15mm Grommet connection
Humidity Rating: Fully Coated Electronic Board
Housing Insulation: IP 44

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.