Automatic Balancing Valves
Mini flow regulator, ball valve and union

Engineering GREAT Solutions
ACM

Compact, Y-shaped combination ball valve, AutoFlow regulator and union with four accessory port locations. Unit is factory set to automatically limit the gpm to within ±5% of the specified amount. The flow cartridge is removable from the valve body to provide access for flow rate changes, inspection, and cleaning without breaking the main piping. The ball valve has PTFE packing, brass packing nut, blowout-proof stem, large diameter plated ball and a handle with vinyl grip. The union has EPDM o-ring and tail piece available in M, F and S connections. Ball valve end is available only in FPT or SWT. Pressure/Temperature ports are standard.

Key features

> Flow Limiting
  No wasted pumping

> ±/- 5%

> Compact
  Union, regulator and shut-off in one

> Tamper Resistance

Technical description

Application:
Hydronic Balancing

Functions:
Flow regulator, union and shut-off

Dimensions:
1/2" - 3/4"

Pressure class:
400 psig at 250° F (27 bar at 120° C)

Accuracy:
±/- 5%

Material:
Body: DZR Brass
Flow cartridge: Series 300 stainless steel wear surfaces with stainless steel spring
Connections

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Fixed Conn. (Outlet)</th>
<th>Union Conn. (Inlet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACM0050</td>
<td>1/2&quot;</td>
<td>1/2&quot; (15) S, F</td>
<td>1/2&quot; (15) F, M, S</td>
</tr>
<tr>
<td>ACM0075</td>
<td>3/4&quot;</td>
<td>3/4&quot; (20) S, F</td>
<td>3/4&quot; (20) F, M, S</td>
</tr>
</tbody>
</table>

S = sweat  F = female NPT  M = male NPT

Flow Rate

<table>
<thead>
<tr>
<th>Size</th>
<th>PSID Range</th>
<th>Flow Rate (gpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; - 3/4&quot;</td>
<td>2 - 32 (L)</td>
<td>0.33, 0.5, 0.67, 0.75, 0.88, 1.0, 1.1, 1.25, 1.5, 1.75, 2.0, 2.25, 2.5, 3.0</td>
</tr>
<tr>
<td></td>
<td>5 - 60 (H)</td>
<td>1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0</td>
</tr>
</tbody>
</table>

Articles

Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Weight</th>
<th>Cvs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACM0050</td>
<td>1/2&quot;</td>
<td>2.3</td>
<td>1.9</td>
<td>4.0</td>
<td>6.0</td>
<td>1.6</td>
<td>1.5</td>
<td>2.0</td>
<td>2.5</td>
<td>7.9</td>
</tr>
<tr>
<td>ACM0075</td>
<td>3/4&quot;</td>
<td>2.3</td>
<td>1.9</td>
<td>4.1</td>
<td>6.5</td>
<td>1.6</td>
<td>1.5</td>
<td>2.0</td>
<td>2.5</td>
<td>8.8</td>
</tr>
</tbody>
</table>

Notes
Dimensions based on S X S connections and will vary with mixed options/connections and will vary with mixed options/connections.
Weights and dimensions are subject to minor changes.
Cv’s based on the body only without flow cartridge.
*1/4” port only
See IOM for cartridge change instructions.
**Model Order Designation**

- **Model Size**: 1/2" ACM Shown
- **ACM050L - S X 050S - DP2&4, AV1 - MI - 1**
- **Connections**: Ball valve end first. See connection table. 1/2" Sweat x 1/2" Sweat Shown.
- **Connection Table**: See connection table.
- **Pressure Range**: L = 2 - 32 psi
- **Option w/ Locations**: Use for options that require specified locations. Dual P/T’s in Ports 2 & 4 and Air Vent in Port 1 Shown
- **Option w/ Locations**: Use for options that have specific locations. Metal I.D. Tag Shown
- **Options**: Use for options that have specific locations. Metal I.D. Tag Shown

**Options Available**

- **AA**: Manual Air Vent
- **DX**: Ext. P/T Ports
- **EH**: Extended Handle
- **HN**: Hose End Drain
- **MI**: Metal ID Tag
- **PI**: Plastic ID Tag
- **PL**: Plug
- **PP**: ProPress®
- **SE**: Stem Extender
- **T4**: 1/4" Tap

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