ACM SBS

Automatic Balancing Valves
Mini flow regulator, ball valve and union

Engineering GREAT Solutions
ACM SBS

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 stainless steel stem, large diameter stainless 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

> Compact
  Union, regulator and shut-off in one

> ±/- 5%

> 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)

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

**Accuracy:**
±/- 5%
## Connections

<table>
<thead>
<tr>
<th>Model</th>
<th>Size in./mm</th>
<th>Fixed Conn. (Outlet) in./mm</th>
<th>Union Conn. (Inlet) in./mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACMSBS0050</td>
<td>1/2&quot; (15)</td>
<td>1/2&quot; (15) S, F</td>
<td>1/2&quot; (15) F, M, S</td>
</tr>
<tr>
<td>ACMSBS0075</td>
<td>3/4&quot; (20)</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>
</tr>
</thead>
<tbody>
<tr>
<td>ACMSBS0050</td>
<td>1/2</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>
</tr>
<tr>
<td>ACMSBS0075</td>
<td>3/4</td>
<td>2.3</td>
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<td>1.5</td>
<td>2.0</td>
<td>2.5</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 SBS Shown

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

ACMSBS050L - S X 050S - DP2&4, AV1 - MI - 1

Connections
Ball valve end first. See connection table.
1/2” Sweat x 1/2” Sweat Shown.

Options
Use for options that have specific locations.
Metal I.D. Tag Shown

S = female sweat
F = female NPT
M = male NPT

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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