YRA

Automatic Balancing Valves
Adjustable Flow regulator & port section
YRA

AutoFlow regulator, adjustably set to automatically limit the flow to within 5% of the specified amount over 95% of the control range. The flow cartridge is removable from the valve body to provide access for regulator inspection and cleaning without breaking the main piping. Internal wear surfaces of the valve cartridge are stainless steel. Pressure / Temperature ports are standard.

Key features

> Flow Regulator
  Less wasted pumping

> Removable Flow Cartridge

> Adjustable

> Tamper Resistant

Technical description

Application:
Hydronic Balancing

Functions:
Flow regulator

Dimensions:
1/2” - 2”

Pressure class:
400 psig at 250°F

Accuracy:
± 5%

Material:
Body: DZR Brass

Articles

Nominal Dimensions & Weights / Cv Rates

<table>
<thead>
<tr>
<th>Model</th>
<th>Size in. / (mm)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Weight</th>
<th>Cv (Kv)</th>
<th>Maximum gpm (lps*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>YRA0050S</td>
<td>1/2 (15)</td>
<td>3.7 (93)</td>
<td>4.6 (117)</td>
<td>2.8 (71)</td>
<td>2.2 (55)</td>
<td>1.1 (.5)</td>
<td>7.6 (55)</td>
<td>8 (.5)</td>
</tr>
<tr>
<td>YRA0050F</td>
<td>1/2 (15)</td>
<td>4.0 (101)</td>
<td>4.8 (122)</td>
<td>2.8 (71)</td>
<td>2.2 (55)</td>
<td>1.1 (.5)</td>
<td>7.6 (55)</td>
<td>8 (.5)</td>
</tr>
<tr>
<td>YRA0075S</td>
<td>3/4 (20)</td>
<td>4.1 (103)</td>
<td>4.8 (122)</td>
<td>2.8 (71)</td>
<td>2.2 (55)</td>
<td>1.3 (.6)</td>
<td>8.7 (55)</td>
<td>8 (.5)</td>
</tr>
<tr>
<td>YRA0075F</td>
<td>3/4 (20)</td>
<td>4.2 (106)</td>
<td>4.9 (125)</td>
<td>2.8 (71)</td>
<td>2.2 (55)</td>
<td>1.3 (.6)</td>
<td>8.7 (55)</td>
<td>8 (.5)</td>
</tr>
<tr>
<td>YRA0100S</td>
<td>1 (25)</td>
<td>5.3 (136)</td>
<td>6.0 (150)</td>
<td>3.1 (80)</td>
<td>2.3 (58)</td>
<td>1.9 (.9)</td>
<td>15.3 (58)</td>
<td>18 (1.1)</td>
</tr>
<tr>
<td>YRA0100F</td>
<td>1 (25)</td>
<td>5.5 (140)</td>
<td>6.2 (157)</td>
<td>3.1 (80)</td>
<td>2.3 (58)</td>
<td>1.9 (.9)</td>
<td>15.3 (58)</td>
<td>18 (1.1)</td>
</tr>
<tr>
<td>YRA0125F</td>
<td>1 1/4 (32)</td>
<td>5.8 (148)</td>
<td>6.6 (168)</td>
<td>3.1 (80)</td>
<td>3.1 (80)</td>
<td>2.3 (1.1)</td>
<td>15.2 (80)</td>
<td>18 (1.1)</td>
</tr>
<tr>
<td>YRA0150F</td>
<td>1 1/2 (40)</td>
<td>7.0 (177)</td>
<td>7.8 (198)</td>
<td>4.9 (124)</td>
<td>2.5 (64)</td>
<td>4.5 (2.1)</td>
<td>38.7 (64)</td>
<td>50 (3.2)</td>
</tr>
<tr>
<td>YRA0200F</td>
<td>2 (50)</td>
<td>7.1 (179)</td>
<td>8.0 (203)</td>
<td>4.9 (124)</td>
<td>2.8 (70)</td>
<td>6.8 (3.1)</td>
<td>42.1 (70)</td>
<td>50 (3.2)</td>
</tr>
</tbody>
</table>

Notes

Weights based on F X F connections and will vary with mixed options/connections. All weights and dimensions are subject to minor changes. Cv’s based on component body without flow regulator.
1 1/4” - 2” available with sweat adapter Available ISO7
2 ports only available

For pump head calculations, add the indicated pressure drop of 4.6 ft (14 kPa) for 2-32 (14-220) or 11.6 ft (35 kPa) for 5-60 (35-414) to calculated drops for other components
Model Order Designation

Model Size
3/4” YRA Shown

See specifications for available connections.
3/4” Female x Female Shown

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

Options Available

PT  Standard PT (default)
DX  Dual Extended PT Ports
AV  Manual Air Vent
AA  Automatic Air Vent
XL  Extended PT

MI  Metal Tag
PI  Plastic Tag

Note

Dual PT Ports are standard
If DX is needed, please specify only once in Port 1 option
If AV or AA is required, only one other accessory will be available for Port 2 option