**DPIC992F**

**PICV - DN50 / DN150**

Pressure Independent Control Valves offer full authority and an automatic balancing function

### Features & Benefits

- **Energy savings**: Optimal control creates energy savings when used as part of a variable flow system.
- **Easy to install**: For use with large plant items such as Air Handling Units (AHU), the PICV is compact and easy to install in limited and difficult site conditions.
- **Accurate flow rates**: Built-in differential pressure controller ensures accurate system design flow rates are achieved and eliminates overflows caused by fluctuating system pressures, which in turn reduces the system running costs.
- **Precise temperature control**: Linear or equal percentage characteristics, settable with an actuator, contribute to precise environmental temperature control.

### Materials

<table>
<thead>
<tr>
<th>PART</th>
<th>MATERIAL</th>
<th>SPECIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>Ductile Iron</td>
<td>EN-GJS-450-10 (GCD450)</td>
</tr>
<tr>
<td>Bonnet</td>
<td>Ductile Iron</td>
<td>EN-GJS-450-10 (GCD450)</td>
</tr>
<tr>
<td>Bottom Cover</td>
<td>Ductile Iron</td>
<td>EN-GJS-450-10 (GCD450)</td>
</tr>
<tr>
<td>O-Rings</td>
<td>EPDM</td>
<td>-</td>
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</tbody>
</table>

#### Flow Controller

- **Seat**: Bronze
  - BS EN 1982: CC491K
- **Plug**: Bronze
  - BS EN 1982: CC491K
- **Stem**: Stainless Steel
  - 304S15 / 1.4301
- **Bearing Sleeve**: Nylon
  - PA66
- **Guide Bush**: Stainless Steel
  - 304S15 / 1.4301

#### Pressure Controller

- **Plug / Stem / Guide**: Nylon
  - PA66
- **Diaphragm**: EPDM
  - -
- **Diaphragm Plate**: Stainless Steel
  - 304S15 / 1.4301
- **Springs**: Spring Steel
  - -

### Dimensions & Weights

<table>
<thead>
<tr>
<th>Size (DN)</th>
<th>L (mm)</th>
<th>W1 (mm)</th>
<th>W2 (mm)</th>
<th>H1 (mm)</th>
<th>H2 (mm)</th>
<th>D (mm)</th>
<th>B (mm)</th>
<th>WEIGHT (kg)</th>
<th>MAX FLOW RATE (m³/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN50</td>
<td>254</td>
<td>139</td>
<td>154</td>
<td>101</td>
<td>291</td>
<td>165</td>
<td>50</td>
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<td>DN65</td>
<td>272</td>
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<td>154</td>
<td>185</td>
<td>300</td>
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<td>260</td>
<td>320</td>
<td>220</td>
<td>100</td>
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<td>DN125</td>
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<td>250</td>
<td>125</td>
<td>93</td>
<td>90</td>
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<tr>
<td>DN150</td>
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<td>198</td>
<td>212</td>
<td>350</td>
<td>400</td>
<td>285</td>
<td>150</td>
<td>162</td>
<td>150</td>
</tr>
</tbody>
</table>

### Pressure/Temperature Ratings

<table>
<thead>
<tr>
<th>TEMPERATURE (°C)</th>
<th>PRESSURE (BAR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 to 120</td>
<td>16</td>
</tr>
</tbody>
</table>

### Notes:

- This Valve is designed to function only with the actuator fitted and cannot be used as a Constant Flow Regulator i.e. without the actuator fitted.
- All dimensions are nominal.

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