Motorized Valves
Stainless Steel Body • 3/8" to 3/4" NPT

Features
• High flow due to angled seat design
• Anti-water hammer design (fluid entry under the disc)
• Actuator rotatable through 360°
• 2-way normally closed operation
• Fluid isolation between electrical actuator and valve body
• LEDs identify valve position and status
• Vacuum service up to $7 \times 10^{-3}$ Torr
• RoHS 2 compliant
• Ideal for “Lead Free” applications
• Feedback signal for 24 VDC and 24 to 48 AC

General
Fluid: Air, inert gas, liquids (water, oil, light slurries)
Fluid Temperature Range: 14°F to 194°F (-10°C to 90°C)
Ambient Temperature Range: 14°F to 122°F (-10°C to 50°C)
Maximum Viscosity: 2,700 SSU
Response Time: < 1.3 sec. (opening) / < 1.3 sec. (closing)

Construction
Valve Parts in Contact with Fluids

<table>
<thead>
<tr>
<th>Part</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve Body</td>
<td>316L Stainless Steel</td>
</tr>
<tr>
<td>Operator</td>
<td>Translucent Polyamide (PA)</td>
</tr>
<tr>
<td>Stuffing Box Housing</td>
<td>PBT (Thermoplastic Polyester Resin), 30% fiberglass reinforced</td>
</tr>
<tr>
<td>Stem Valve</td>
<td>303 Stainless Steel</td>
</tr>
<tr>
<td>Stuffing Box Packing</td>
<td>NBR</td>
</tr>
<tr>
<td>Wiper Seal</td>
<td>NBR</td>
</tr>
<tr>
<td>Disc Seal</td>
<td>NBR</td>
</tr>
</tbody>
</table>

Electrical

<table>
<thead>
<tr>
<th>Connector</th>
<th>DIN Plug (ISO 4400 Form A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>12 W (operating), 0 W (holding) Max peak current: 0.7 A (startup)</td>
</tr>
<tr>
<td>Visual Indication</td>
<td>LED</td>
</tr>
<tr>
<td>Enclosure</td>
<td>IP65</td>
</tr>
<tr>
<td>Standard Voltages</td>
<td>DC: 24V AC: 110 to 250V / 50-60 Hz 24 to 48V / 50-60 Hz</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>12 cycles/min at 14°F (-10°C) 4 cycles/min at 122°F (50°C)</td>
</tr>
</tbody>
</table>

How to Order

```
8290C52V0KEFC + V1
```

Base Catalog Number Refer to the Specifications Section
Voltage Code
- V1 24 VDC
- VW 110 to 250V / 50-60 Hz
- UA 24 to 40V / 50-60 Hz

Approvals
Meets applicable CE directives with provisions of ROHS 2 directive.
### Specifications (English units)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Min.</td>
<td>Max.</td>
<td></td>
<td>24V (DC) 110 to 250V (50-60 Hz) 24 to 48V (50-60 Hz)</td>
<td>DC</td>
</tr>
<tr>
<td>3/8</td>
<td>3.1</td>
<td>0</td>
<td>87</td>
<td>194</td>
<td>8290C52V0KEFC</td>
<td>V1</td>
</tr>
<tr>
<td>1/2</td>
<td>4.4</td>
<td>0</td>
<td>72</td>
<td>194</td>
<td>8290C53V0KEFC</td>
<td>V1</td>
</tr>
</tbody>
</table>

### Specifications (Metric units)

<table>
<thead>
<tr>
<th>Pipe Size (in)</th>
<th>Kv Flow Factor (m³/h)</th>
<th>Max. Fluid Temp. °C</th>
<th>Base Catalog Number</th>
<th>Voltage Code</th>
<th>Const. Ref.</th>
<th>Approx. Shipping Weight (kgs)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Min.</td>
<td>Max.</td>
<td></td>
<td>24V (DC) 110 to 250V (50-60 Hz) 24 to 48V (50-60 Hz)</td>
<td>DC</td>
</tr>
<tr>
<td>3/8</td>
<td>2.7</td>
<td>0</td>
<td>6</td>
<td>90</td>
<td>8290C52V0KEFC</td>
<td>V1</td>
</tr>
<tr>
<td>1/2</td>
<td>3.8</td>
<td>0</td>
<td>5</td>
<td>90</td>
<td>8290C53V0KEFC</td>
<td>V1</td>
</tr>
<tr>
<td>3/4</td>
<td>6.0</td>
<td>0</td>
<td>4</td>
<td>90</td>
<td>8290C54V0KEFC</td>
<td>V1</td>
</tr>
</tbody>
</table>

### Dimensions (inches (mm))

<table>
<thead>
<tr>
<th>Const. Ref.</th>
<th>ØA (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
<th>ØF (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Version</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>3/8</td>
<td>135</td>
<td>141</td>
<td>129</td>
<td>155</td>
<td>67</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>8.5</td>
<td>8.9</td>
<td>8.5</td>
<td>6.5</td>
<td>3.3</td>
</tr>
<tr>
<td></td>
<td>1/2</td>
<td>5.6</td>
<td>5.7</td>
<td>5.2</td>
<td>2.6</td>
<td>2.6</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>142</td>
<td>145</td>
<td>131</td>
<td>65</td>
<td>67</td>
</tr>
<tr>
<td></td>
<td>3/4</td>
<td>5.9</td>
<td>6</td>
<td>5.4</td>
<td>3</td>
<td>2.6</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>150</td>
<td>152</td>
<td>136</td>
<td>75</td>
<td>67</td>
</tr>
<tr>
<td>AC Version</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>3/8</td>
<td>6.7</td>
<td>7.4</td>
<td>6.9</td>
<td>2.2</td>
<td>2.8</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>171</td>
<td>189</td>
<td>175</td>
<td>55</td>
<td>71</td>
</tr>
<tr>
<td></td>
<td>1/2</td>
<td>7</td>
<td>7.5</td>
<td>7</td>
<td>2.6</td>
<td>2.8</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>178</td>
<td>189</td>
<td>175</td>
<td>65</td>
<td>71</td>
</tr>
<tr>
<td></td>
<td>3/4</td>
<td>7.3</td>
<td>7.7</td>
<td>7.1</td>
<td>3</td>
<td>2.8</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>186</td>
<td>196</td>
<td>180</td>
<td>75</td>
<td>71</td>
</tr>
</tbody>
</table>

### Replacement DC to AC Adapter

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>P290CA430078001</td>
<td>110 to 250V / 50-60 Hz</td>
</tr>
<tr>
<td>P290CA438907007</td>
<td>24 to 48V / 50-60 Hz</td>
</tr>
</tbody>
</table>

Valves can be mounted in any position.