TYPE E2 MAIN VALVE

LOW PRESSURE
LOW DIFFERENTIAL

SIZES 3/4" - 12"
PRESSURES to 15 PSIG at 250°F

- Normally Closed
- Single Seat
- Hycar Diaphragm
- Protected Main Spring
- Gas & Steam Applications
- Accurate Regulation Unaffected by Service Conditions
- ANSI/FCI 70-2 Class IV Shutoff
- Virtually Frictionless for Long Service Life
- Packless Construction
- Easy In-line Maintenance
- Wide Variety of Pilots for Many Applications
- Minimum Operating ∆P 3 psi (.2 bar)
- Lifetime Warranty against Wiredrawing of Seat & Disc *

OPTIONS See page 42
- Composition Disc for liquid, air or gas service
- Insulcap Insulating Jacket
- Integral Mount Pilot
- EZ Connections

TYPICAL CONFIGURATIONS

PRESSURE REDUCING ................. TYPE E2D
AIR ADJUSTED .................. TYPE E2A SERIES
BACK PRESSURE ......................... TYPE E2Q
LOAD ALLOCATING .................. TYPE E2FD
AIR CONTROLLED ...................... TYPE E2AP60
ELECTRONIC SLOW START ......... TYPE E2D208D
SOLENOID CONTROLLED .............. TYPE E2MD
SOLENOID ACTUATED .................. TYPE E2M
DIFFERENTIAL ......................... TYPE E2N
TEMPERATURE CONTROL .......... TYPE E2T14
TEMP. & PRESSURE CONTROL ...... TYPE E2T134

APPLICATION DATA
- Pressure Regulating for Steam Distribution
- Regulating for Process Control (Temperature or Pressure)
- Maintain Back Pressure or Differential Pressure
- For use with Self-contained, Pneumatic or Electronic Pilots
- Single Point or Multiple Use Applications
- Slow Start-up or Shutdown

VALVE RATINGS

<table>
<thead>
<tr>
<th>Valve Ends</th>
<th>Pressure</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASME/ANSI</td>
<td>PSIG (bar)</td>
<td>°F (°C)</td>
</tr>
<tr>
<td>CAST IRON</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B16.4 Class 250 NPT</td>
<td>15 (1.03)</td>
<td>250°F (121°C)</td>
</tr>
<tr>
<td>B16.1 Class 125 Flanged</td>
<td>15 (1.03)</td>
<td>250°F (121°C)</td>
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Canadian Registration # OC 0591.9C

Installation Tip: Add EZ Connections for ease of maintenance
SEE PAGE 42

RATED FLOW COEFFICIENTS (Cv)

<table>
<thead>
<tr>
<th>SEAT FACTOR</th>
<th>1/8</th>
<th>1</th>
<th>1/4</th>
<th>1/2</th>
<th>2</th>
<th>21/2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
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<tbody>
<tr>
<td>Full</td>
<td>7.6</td>
<td>11.7</td>
<td>18.9</td>
<td>27.4</td>
<td>44</td>
<td>68</td>
<td>96</td>
<td>143</td>
<td>202</td>
<td>255</td>
<td>465</td>
<td>748</td>
<td>1118</td>
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<tr>
<td>70%-75%</td>
<td>—</td>
<td>8.8</td>
<td>13.2</td>
<td>19.2</td>
<td>30.8</td>
<td>47.6</td>
<td>67.2</td>
<td>100</td>
<td>141</td>
<td>178</td>
<td>—</td>
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<tr>
<td>45%</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>12.3</td>
<td>30.6</td>
<td>—</td>
<td>64.4</td>
<td>—</td>
<td>11.4</td>
<td>—</td>
<td>336</td>
<td>—</td>
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* When installed according to factory specifications.
**TYPE E2 MAIN VALVE**

**SPECIFICATION**

The valve shall be self-operated, external pilot type, single seated, hycar diaphragm actuated, normally closed design. The valve will function quickly and shut tight on dead end service. Internal parts including seats, discs and stems shall be of stainless steel. There shall be no springs in the steam flow path and no stuffing box. The valve shall be easy to maintain with all parts accessible without removal from the line.

**MATERIALS OF CONSTRUCTION**

Body, Cast Iron .................. ASTM A126 Cl. B  
Body, Cast Bronze .......... ASTM B61-80 61UNSC 92200  
Stem .................................. 303 St. Std. ASTM A582  
Disc 3/4 - 2" .................... 420 St. Std. ASTM A743 CA-40  
Disc 2-1/2 - 12" ............. 304 St. Std. ASTM A167/A240  
Seat .................................. 420 St. Std. ASTM A743 CA-40  
Gasket ................................. Non-asbestos  
Diaphragm .......................... Hycar  
Spring ................................. Steel

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**DIMENSIONS** inches (mm), **WEIGHTS** pounds (kg)

<table>
<thead>
<tr>
<th>SIZE</th>
<th>CI</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>APPROX. WT.</th>
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<td>2</td>
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<td>18</td>
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<td>1</td>
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<tr>
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<td>6</td>
<td>9</td>
<td>4</td>
<td>8</td>
<td>30</td>
</tr>
<tr>
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<td>9</td>
<td>4</td>
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<td>7</td>
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<td>12</td>
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<td>1060</td>
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*Add 55% to D dimension for stem removal clearance.*