TYPE E6 MAIN VALVE
HIGH PRESSURE-HIGH LIFT
COLD SERVICE

SIZES 3/4" - 12"
PRESSURES to 250 PSIG at 200°F

- Normally Closed
- Single Seat
- Balanced Hycar Diaphragm
- Protected Main Spring
- Composition Disc for Tight Shutoff
- Air & Gas Applications
- Accurate Regulation Unaffected by Service Conditions
- ANSI/FCI 70-2 Class VI Shutoff
- Virtually Frictionless for Long Service Life
- Packless Construction
- Easy In-line Maintenance
- Wide Variety of Pilots for Many Applications

OPTIONS
- Dashpot for Water Service
- Insulcap Insulating Jacket
- Balanced Construction
- EZ Connections

TYPICAL CONFIGURATIONS
PRESSURE REDUCING ................... TYPE E6D
AIR ADJUSTED ......................... TYPE E6A
BACK PRESSURE ........................ TYPE E6Q
PUMP GOVERNOR ....................... TYPE E6P
LOAD ALLOCATING .................... TYPE E6FD
AIR CONTROLLED ..................... TYPE E6AP60
ELECTRONIC SLOW START .......... TYPE E6D208D
SOLENOID CONTROLLED ............. TYPE E6MD
SOLENOID ACTUATED ................. TYPE E6M
DIFFERENTIAL ......................... TYPE E6N
TEMPERATURE CONTROL ............ TYPE E6T

APPLICATION DATA
- Pressure Regulating for Compressed Air Distribution
- Pressure Regulating for Gas Service
- 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 ASME/ANSI</th>
<th>Temperature PSIG (bar) °F (°C)</th>
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</thead>
<tbody>
<tr>
<td>CAST IRON</td>
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</tr>
<tr>
<td>B16.4 Class 250 NPT</td>
<td>250 (17.2)</td>
<td>200 (93)</td>
</tr>
<tr>
<td>B16.1 Class 125 Flanged</td>
<td>125 (8.6)</td>
<td>200 (93)</td>
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</table>

Other pressure/temperature ratings available; consult factory.

Canadian Registration # OC 0591.9C

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

SIZING INFO PAGE 108

RATED FLOW COEFFICIENTS (Cv)

<table>
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<tr>
<th>SEAT FACTOR</th>
<th>3/4</th>
<th>1</th>
<th>1 1/4</th>
<th>1 1/2</th>
<th>2</th>
<th>2 1/2</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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<tr>
<td>Full</td>
<td>7.6</td>
<td>11.7</td>
<td>18.9</td>
<td>27.4</td>
<td>43</td>
<td>67</td>
<td>95</td>
<td>159</td>
<td>258</td>
<td>350</td>
<td>665</td>
<td>1018</td>
<td>1611</td>
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<td>Normal</td>
<td>5.7</td>
<td>10.0</td>
<td>13.4</td>
<td>19.8</td>
<td>25</td>
<td>35</td>
<td>59</td>
<td>120</td>
<td>176</td>
<td>228</td>
<td>366</td>
<td>525</td>
<td>952</td>
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</table>
TYPE E6 MAIN VALVE

SPECIFICATION

The valve shall be self-operated, external pilot type, single seated, composition disc, hycar diaphragm actuated, normally closed design. The valve will function quickly and shut tight on dead end service. Seats and stems shall be of stainless steel. There shall be no springs in the flow space 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 UNS C92200
Stem ..................................... 303 St. Stl. ASTM A582
Disc ........................................ Hycar Comp.
Seat 3/4 - 5" ....................... 420 St. Stl. ASTM 473 CA-40
Seat 6 - 8" .......................... 316 St. Stl. ASTM A743 CF-8M
Gasket ................................. Non-asbestos
Diaphragm .............................. Hycar
Spring ..................................... Steel
Disc Holder ............................. ASTM B16 UNS C36000

DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

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<tr>
<th>SIZE</th>
<th>A ANSI NPT 125</th>
<th>A ANSI 250</th>
<th>B ANSI NPT 125</th>
<th>B ANSI 250</th>
<th>C Std. Mount</th>
<th>C Integral Mount</th>
<th>D* ANSI NPT 125</th>
<th>D* ANSI 250</th>
<th>APPROX. WT. ANSI NPT 125</th>
<th>APPROX. WT. ANSI 250</th>
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<td>½</td>
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<td>—</td>
<td>—</td>
<td>—</td>
<td>6 3/16 (19)</td>
<td>2 1/8 (73)</td>
<td>3 1/4 (92)</td>
<td>6 3/16 (19)</td>
<td>18 (8)</td>
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<tr>
<td>1</td>
<td>5 5/16 (25)</td>
<td>5 1/4 (137)</td>
<td>6 1/2 (152)</td>
<td>6 3/16 (19)</td>
<td>3 1/4 (92)</td>
<td>4 4/16 (111)</td>
<td>6 3/16 (19)</td>
<td>6 3/16 (168)</td>
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<td>1¼</td>
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<td>4 1/2 (102)</td>
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<td>5 1/16 (137)</td>
<td>11 3/16 (257)</td>
<td>11 3/16 (283)</td>
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<td>6 3/16 (151)</td>
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<td>13 3/16 (343)</td>
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<td>13 3/16 (346)</td>
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<tr>
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<td>—</td>
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<td>17 3/16 (448)</td>
<td>17 3/16 (448)</td>
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*Add 100% to D dimension for stem removal clearance.