Pressure Reducing Valve
Residential and Commercial Water Systems

- Model C150E
- 1/2” thru 2”
- High capacity globe style design
- Unleded Bronze Body
- NSF/ANSI 61-2010 certified by IAPMO R&T
- NSF/ANSI 372
FEATURES/BENEFITS
- High capacity globe style design
- Single union with FNTP tailpiece standard, inlet and outlet both male threaded for union on either or both sides.
- Replaceable acetal cartridge with integral stainless steel strainer
  Built-in bypass prevents buildup of excessive system pressure caused by thermal expansion
- Nylon reinforced Buna-N diaphragm
- Balanced piston design
- May be installed in any position
- Short lay length makes for easy retrofit
- No special tools required
- Serviceable in-line
- Available with BSPT threads (optional)

PRODUCT OPERATION
The Flomatic Pressure Reducing Valve (PRV) Model C150E when properly installed will regulate high upstream (inlet pressure) to a lower regulated downstream (outlet pressure) constant pressure within a range regardless of water flow. This is accomplished by an adjustable spring loaded balancing valve factory set to automatically regulate the downstream pressure to 50 psi. The regulating pressure is field adjustable. Bypass should be considered for low flow application.

PRODUCT SPECIFICATION
- Connection: NPT (Male/Female)
- Max pressure: 400 PSI (27 bar)
- Max temperature: 180°F (80°C)
- Pressure Regulating Setting: Factory set at 50 psi
- Standard spring adjustment range: Valve sizes: 1/2” thru 2”: 15 to 75 psi *
- Maximum pressure reduction ratio 4:1

* Optional spring ranges available for this valve are 15 - 150 psi spring

PRODUCT OPTIONS

END-CONNECTIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
<th>INLET</th>
<th>OUTLET</th>
</tr>
</thead>
<tbody>
<tr>
<td>C150E</td>
<td>Standard Model Un-ledged valve body</td>
<td>Female/NPT Union</td>
<td>Single Union End W/Female NPT</td>
</tr>
<tr>
<td>C150ET</td>
<td>Un-ledged valve body</td>
<td>Female/Male NPT (No Union Nut)</td>
<td>Female/Male NPT (No Union Nut)</td>
</tr>
<tr>
<td>C150EPX</td>
<td>Un-ledged valve body</td>
<td>PEX</td>
<td>PEX</td>
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</table>

Double Union Cross-Reference Guide - PEX union inlet and outlet (3/4” and 1” only)

<table>
<thead>
<tr>
<th>Size</th>
<th>FLOMATIC (proposed)</th>
<th>WILKINS</th>
<th>WATTS</th>
<th>APPolo</th>
<th>CONBRACO</th>
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<tbody>
<tr>
<td>3/4” &amp; 1”</td>
<td>Series C150E</td>
<td>Series NR3</td>
<td>Series LFN45</td>
<td>Series 36CLF</td>
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<tr>
<td></td>
<td>C150E PEX</td>
<td>NR3XL PEX</td>
<td>LFN45BDU-PEX-M1</td>
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DELIVERS CONSTANT PRESSURE AUTOMATICALLY
**PRODUCT SPECIFICATION**

- Optional spring ranges available for this valve are 15 - 150 psi spring.
- Maximum pressure reduction ratio: 4:1
- Standard spring adjustment range:
  - Valve sizes: 1/2" thru 2": 15 to 75 psi
- Pressure Regulating Setting: Factory set at 50 psi
- Max temperature: 180°F
- Max pressure: 400 PSI (27 bar)
- Connection: NPT (Male/Female)

**PRODUCT OPTIONS**

- **C150EPEX**: Un-leaded valve body PEX
- **C150ET**: Un-leaded valve body

### FEATURES/BENEFITS

- Available with BSPT threads (optional)
- No special tools required
- May be installed in any position
- Balanced piston design
- Nylon reinforced Buna-N diaphragm
- Built-in bypass prevents buildup of excessive system pressure caused by thermal expansion

### CONNECTIONS

- **3/4"** to **1-1/2"**
  - Male threaded for union on either or both sides.
  - Single union with FNTP tailpiece standard, inlet and outlet both.

### MATERIALS

- Valve body: Un-leded bronze
- Valve cover: Composite (1/2", 3/4", 1" & 1 1/4")
- Un-leded bronze valve cover (1 1/4" thru 2")
- Spring & fasteners: Stainless steel
- Internal parts: Corrosion resistant

### ITEM / QUANTITY / DESCRIPTION / MATERIAL

<table>
<thead>
<tr>
<th>Item #</th>
<th>Qty.</th>
<th>Description</th>
<th>Material</th>
<th>Item #</th>
<th>Qty.</th>
<th>Description</th>
<th>Material</th>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Adjusting Screw</td>
<td>Steel</td>
<td>15</td>
<td>1</td>
<td>Large Washer</td>
<td>Stainless Steel 18-8</td>
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<tr>
<td>2</td>
<td>1</td>
<td>*Spacer</td>
<td>ABS</td>
<td>16</td>
<td>1</td>
<td>Stem</td>
<td>Stainless Steel 304</td>
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<td>3</td>
<td>1</td>
<td>Jam Nut</td>
<td>Steel or Bronze</td>
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<td>1</td>
<td>O-Ring</td>
<td>Buna-n</td>
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<td>4</td>
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<td>Valve Cover</td>
<td>Noryl or 89833</td>
<td>18</td>
<td>1</td>
<td>Cartridge</td>
<td>Delrin</td>
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<td>5</td>
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<td>Disc Holder</td>
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<td>Disc</td>
<td>EPDM</td>
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<td>7</td>
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<td>HHCS</td>
<td>Stainless Steel 18-8</td>
<td>21</td>
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<td>Plastic Washer</td>
<td>Delrin</td>
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<td>HHCS</td>
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<td>Tooth Lock Washer</td>
<td>Steel</td>
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<td>Small Washer</td>
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<td>10</td>
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<td>O’Ring</td>
<td>Buna-n</td>
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<td>Body</td>
<td>Bronze C89833</td>
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<td>O’Ring</td>
<td>Buna-n</td>
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<td>Union Disc</td>
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<td>1</td>
<td>Diaphragm</td>
<td>Nitrile / Nylon</td>
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<td>1</td>
<td>Union Nut</td>
<td>Bronze C31400</td>
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<td>13</td>
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<td>Union</td>
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<td>Friction Ring</td>
<td>Brass C36000</td>
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</table>

*On 1/2" - 1 1/4" only*
FEATURES
- Sizes: 1/2", 3/4", 1", 1½", 2"
- Maximum Pressure: 400 psi
- Reduced Pressure Ranges: 15 psi to 75 psi, 15 psi to 150 psi
- Maximum Water Temperature: 180°F
- Factory pre-set: 50 psi
- Standard Thread Connections (FNPT): ANSI B 1.20.1

STANDARD COMPLIANCE
- ASSE® LISTED 1003
- IAPMO® LISTED
- CSA® LISTED (1/2" thru 1½")
- CITY OF LOS ANGELES APPROVED
- NSF/ANSI 61-2010 CERTIFIED BY IAPMO R&T (1/2" thru 1½")
- NSF/ANSI 372

Double Threaded End Connections
Simplify installation with pipe size flexibility. Standard models are equipped with one union end connection and male/female threaded connection on the other valve end. Several different end-connection and sizes are available.

- Delivers constant pressure automatically
- Domestic well water systems
- Municipal / Public water systems
- Irrigation and sprinkler systems
- Pump booster systems

HEAD LOSS CHARTS
One of the lowest flow losses in the industry

Note: Valve fully open with no spring, for full of curve consult factory or visit website. Flomatic can accept no responsibility for possible errors in catalogues, brochures and other printed material. Flomatic reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Flomatic and the Flomatic logotype are trademarks of Flomatic. All rights reserved.