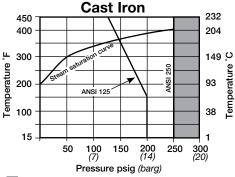
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Pilot Operated Pressure Regulator 6" 25P

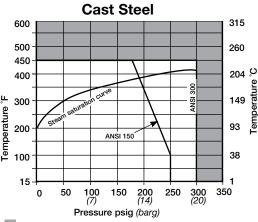
The 25P is a self-actuated pilotoperated pressure regulator. Downstream pressure is fed back through an external sensing line to the pressure pilot, which adjusts the opening of the main valve so as to maintain the set pressure. The valve meets Class IV shut-off specifications but is not suitable for dead-end service.

| Model | 2 | 5P |
|--------------|---------------|---------------|
| Sizes | 6" | |
| Connections | ANSI 125, 250 | ANSI 150,300 |
| Construction | Cast Iron | Cast Steel |
| Options | | Designated by |

Limiting Operating Conditions



The product should not be used in shaded area.



The product should not be used in shaded area.

Note: Maximum temperature for Stainless Steel tubing is 600°F

Downstream Pressure Ranges

For the following downstream pressures, three color-coded pilot valve springs are available:

Yellow: 3 to 30 psi Blue: 20 to 100 psi Red: 80 to 250 psi

C. Values

| Size | 6" | 6" "S" |
|---------|-----|--------|
| C value | 280 | 156 |

Typical Applications

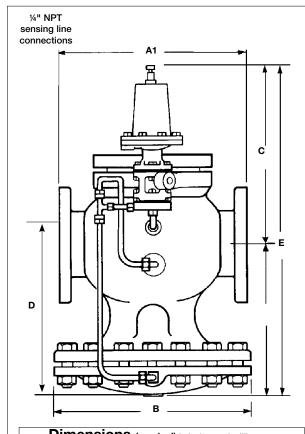
The 25P is a reliable, accurate regulator to reduce steam from a high supply pressure to the most efficient operating pressure of the equipment, and to protect the equipment from dangerously high pressures.

Capacities

For selection and sizing data, see TI-3-030-US

Sample Specification

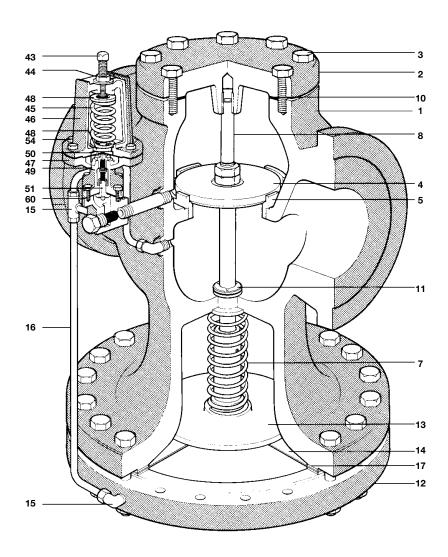
The pressure regulator shall be of the pilot-actuated diaphragm operated type. The main valve shall be single-seated with hardened stainless steel trim; the regulator body shall be cast iron. The pilot shall be externally mounted to the regulator body.



| Α | NSI 125/15 | 0 ANSI 250 | 0/300 | | | | |
|------|------------|------------|-------|------|------|------|--------|
| Size | A1 | A1 | В | С | D | E | Weight |
| 6" | 18.1 | 18.9 | 19.75 | 14.9 | 17.1 | 32.1 | 595 lb |
| | 460 | 481 | 502 | 380 | 435 | 815 | 270 kg |

In the interests of development and improvement of the product, we reserve the right to change the specification. 378 Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.

Pilot Operated Pressure Regulator 6" 25P



| Co | nstruction Mate | erials | |
|-----|------------------------|-----------------|------------------|
| No. | Part | Material | |
| 1 | Valve Body | Cast Iron | ASTM A 126 CL B |
| | | Cast Steel | ASTM A 216 WC B |
| 2 | Cover | Cast Iron | ASTM A 126 CL B |
| | | Cast Steel | ASTM A 216 WC B |
| 3 | Cover Bolts | Steel | AISI 1038 |
| 4 | Main Valve Head | Stainless Steel | ASTM A 743 CA 40 |
| 5 | Main Valve Seat | Stainless Steel | ASTM A 743 CA 40 |
| 7 | Valve Return Spring | Stainless Steel | AISI 302 |
| 8 | Valve Stem | Stainless Steel | AISI 304 |
| 10 | Cover Gasket | Graphite | BS 2815 A |
| 11 | Stem Bushing | Brass | ASTM B16 |
| 12 | Lower Diaphragm Case | Cast Iron | ASTM A 126 CL B |
| | | Cast Steel | ASTM A 216 WC B |
| 13 | Diaphragm Plate | Stainless Steel | ASTM A 743 CA 40 |
| 14 | Main Diaphragm (2 ply) | Stainless Steel | AISI 301 |
| 15 | Tube & Orifice | Brass | ASTM B16 |
| 16 | Tubing Assembly | Copper | ASTM B280 (122) |
| 17 | Diaphragm Gasket (2) | Graphite | BS 2815 A |
| 43 | Adjustment Screw | Stainless Steel | AISI 304 |
| 44 | Jam Nut | Brass | ASTM B16 |
| 45 | Pilot Valve Spring | Steel | AISI 1060 |
| 46 | Upper Diaphragm Case | Cast Iron | ASTM A 126 CL B |
| | | Cast Steel | ASTM A 216 WC B |

| No. | Part | Material | |
|-----|-----------------------|-----------------------|-----------------|
| 47 | Lower Diaphragm Case | Cast Iron | ASTM A 126 CL B |
| | | Cast Steel | ASTM A 216 WC E |
| 48 | Spring Plate | Steel | ASTM A569 |
| 49 | Diaphragm | Stainless Steel | ASTM A240 |
| 50 | Diaphragm Plate | Brass | ASTM B36 |
| 51 | Head & Seat Assembly | Stainless Steel | AISI 440 |
| | | Stainless Steel | AISI 440F |
| 54 | Diaphragm Case Screws | Steel 5/16" - 18 x 1" | ASTM A449 |
| 60 | Pilot Gasket | Graphite | |

Installation

The regulator should be installed in a horizontal line with suitable bypass and isolating valves. A steam trap should be installed upstream to prevent condensate from reaching the regulator. The trap and p regulator should both be protected with a strainer separator set. The 8 pressure sensing line should be located in a straight section of the glownstream piping at least 10 pipe diameters from the nearest fitting. Complete installation instructions are given in IM-3-000-US.

Maintenance

Complete maintenance instructions are given in IM-3-000-US and $\frac{1}{60}$ ADVP 3029, a copy of which is supplied with each regulator. Available spare parts are shown on TI-1-1121-US and TI-3-0271-US.

TI-3-016-US 7.18