

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 main valve can close tight for dead-end shut off when steam is not required.

Model ➪	2	5P
Sizes	(5"
Connections	ANSI 125, 250	ANSI 150,300
Construction	Cast Iron	Cast Steel
Options	Reduce Orifice [Designated by "S"

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.

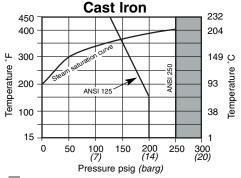
Capacities

For selection and sizing data, see TIS 3.030

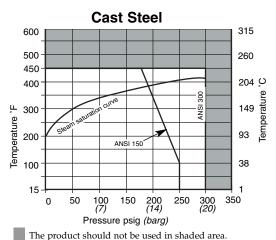
Sample Specification

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

Limiting Operating Conditions



The product should not be used in shaded area.



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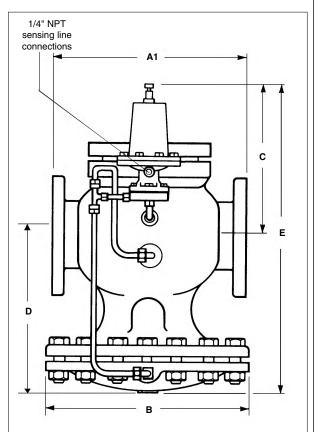
Downstream Pressure Ranges

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 240 psi

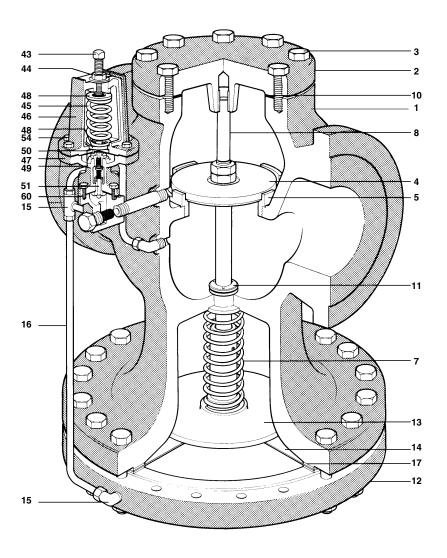
C_V Values

Size	6"	6" "S"
C _V value	260	185



Dimensions (nominal) in inches and millimeters							
Α	nsi 125/150	Ansi 250/3	300				
Size	A1	A1	В	С	D	E	Weight
6''	18.1	19.0	19.75	11.75	16.7	28.6	560 lb
	460	483	502	302	424	725	254 kg

Pilot Operated Pressure Regulator



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 regulator should both be protected with a strainer separator set. The pressure sensing line should be located in a straight section of the downstream piping at least 10 pipe diameters from the nearest fitting. Complete installation instructions are given in IMI 3.000. sensing line should be located in a straight section of the downstream

Maintenance

Maintenance
Complete installation and maintenance instructions are given in IMI 3.000 and ADVP 3029, a copy of which is supplied with each regulator. Available spare parts are shown on TIS 3.029 and 3.0271.

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