

Pressure Reducing Pilot Valve

Model #2PBL

This is a direct acting valve, actuated by a pressure responsive diaphragm, which tends to reach equilibrium with the set spring force. Fully balanced trim ensures high accuracy and stability. When used in a pressure reducing circuit, the pilot modulates closed as downstream pressure rises above set point.

Features

- Internal or external pressure sensing
- Differential pressure sensing
- Direct pressure gauge installation

Typical Applications

- Pressure reducing valves sizes 6-12" (Standard model #2PBL)
- Flow Control Valves sizes 8-16" (Modified to differential sensing #2PBL-DR)
- Closing surge control (additional feature 49) for sizes 10-16" (Modified to external pressure sensing #2PBL-R)

Technical Data

Pressure Rating: 25 bar; 350 psi

Working Temperature: Water up to 80°C; 180°F

Flow Factor: Kv 0.96; Cv 1.13

Standard Materials:

Body: Bronze/Stainless Steel

Cover: Brass/Stainless Steel/polyamide 6+30% F.G

Elastomers: NBR/EPDM

Internals: Stainless Steel & Brass

Spring: Stainless Steel 302/316

Optional Materials:

Metal Parts: Nickel Aluminum Bronze, Duplex, Hastalloy, Titanium

Elastomers: FPM (Viton®)

Adjustment Range

Spring		Pressure		
St. St. 302 Bronze Body	St. St. 316 St. St. Body	bar	psi	
J*	N/A	0.2-1.7	3-25	Standard
K	Y	0.5-3	7-43	
N	L	0.8-6.5	12-94	
V	T	1-10	15-150	
P	W	1-16	15-230	
N/A	Z	5-25	72-362	

* For #2PBL-DR- differential sensing

Connections:

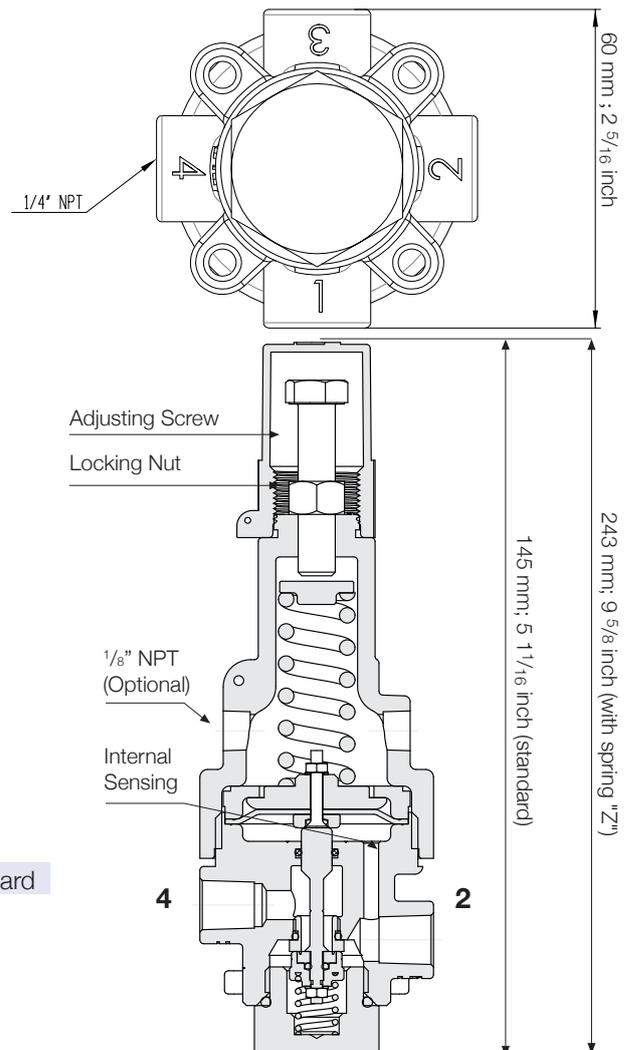
- 1 - Remote sensing (optional) or pressure gauge
- 2 - Downstream
- 3 - Remote sensing (optional) or pressure gauge
- 4 - Valve control chamber

Upstream pressure is connected to valve control chamber via a restriction.



Bronze

Stainless Steel



Weight:

1.2 Kg / 2.6 lbs - Bronze, Stainless Steel
1.7 Kg / 3.7 lbs. - with 25 bar spring

