

Pressure Reducing Pilot Valve

Model #2PB

This is a direct acting pilot 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 1 1/2"-10" (Standard model #2PB)
- Flow Control Valves sizes 1 1/2"-4" (Modified to differential sensing #2PB-D)
- Closing surge control (additional feature 49) for sizes 1 1/2"-10" (Modified to external pressure sensing #2PB-R)

Technical Data

Pressure Rating: 25 bar; 350 psi
Working Temperature: Water up to 80°C; 180°F
Flow Factor: Kv 0.46 m³/h @ 1bar ΔP; Cv 0.51 GPM @ 1psi ΔP
Standard Materials:
Body: Bronze
Cover: Brass
Elastomers: NBR
Internals: Stainless Steel & Brass
Spring: Galvanized Steel
Optional Materials:
Metal Parts: Stainless Steel, Nickel Aluminum Bronze, Hastalloy
Elastomers: FPM (Viton®)

Adjustment Range

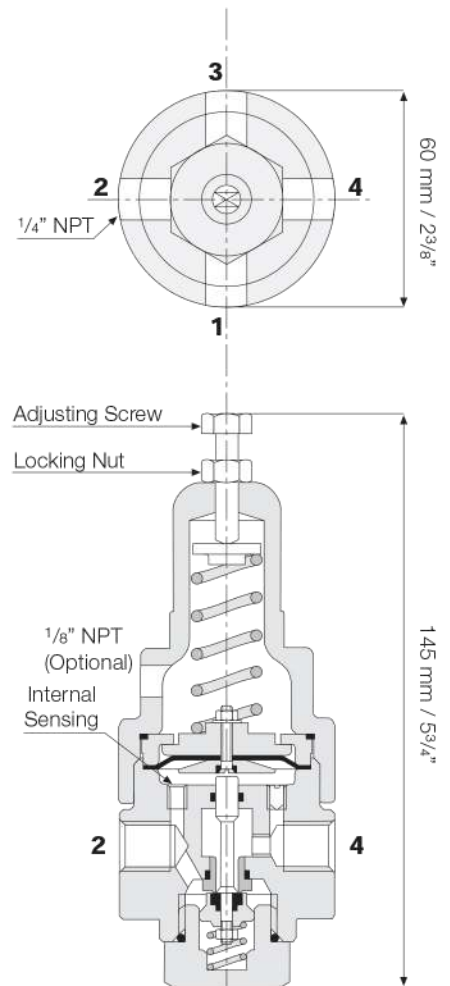
Spring	Pressure		
	bar	psi	
M	1-16	15-230	Standard
N	0.8-6.5	11-95	Optional
J*	0.2-1.7	3-25	

* For #2PB-D, 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.



Weight: 1.5 Kg; 3.3 lbs.