



# Pressure Sustaining Pilot Valve

## Model #3PB

This is a direct acting valve, actuated by a pressure responsive diaphragm, which tends to reach equilibrium with the set spring force. When used in a pressure relief/sustaining circuit, the pilot modulates open as upstream pressure rises above set point.

## Features

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

## Typical Applications

- Pressure relief/sustaining valve sizes 1½-6" (Standard model #3PB)
- Differential Pressure sustaining valve sizes 1½-6" (Modified to differential sensing #3PB-D)

## Technical Data

**Pressure Rating:** 25 bar; 350 psi

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

**Flow Factor:** Kv 0.48; Cv 0.56

### 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

**Elastomers:** FPM (Viton®)

## Adjustment Range

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

Standard

\* For #3PB-DR - differential sensing

## Connections:

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

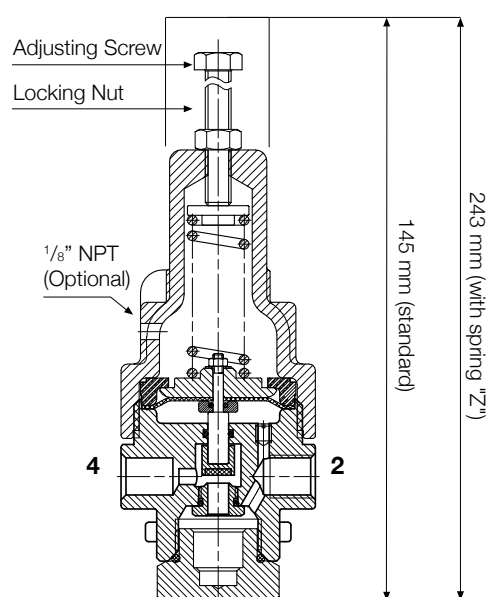
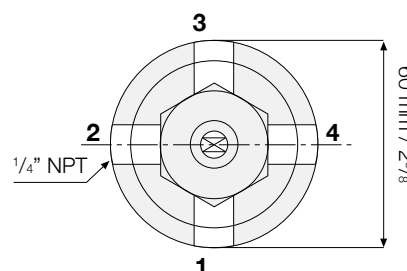
Upstream pressure is connected to valve control chamber via a restriction.



Bronze



Stainless Steel



### Weight:

1.2 Kg / 2.6 lbs - Bronze, Stainless Steel

1.7 Kg / 3.7 lbs - with 25 bar spring