

PRESSURE SUSTAINING PILOT VALVE

Model #3PBL

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 (Standard model #3PBL)
- Differential Pressure sustaining valve (Modified to differential sensing #3PBL-B)

Technical Data

Pressure Rating: 25 bar; 400 psi

Working Temperature: Water up to 60°C; 150°F

Flow Factor: Kv 0.96; Cv 1.13

Valve Size Range: Small - Medium

Standard Materials:

Body: Bronze/Stainless Steel

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

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
N/A	J*	0.2-1.7	3-25
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 #3PBL-DR - differential sensing

Connections

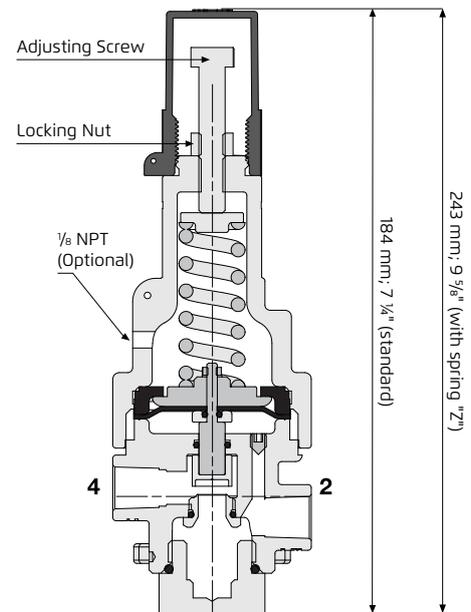
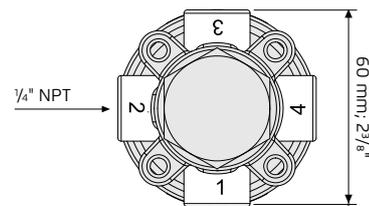
- 1 - Remote sensing or pressure gauge 2 - IN
 3 - Remote sensing or pressure gauge 4 - OUT

* Always recommended to refer to control diagram



Bronze

Stainless Steel



Weights:

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



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