

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

- Differential pressure sensing
- Direct Pressure Gauge Installation
- Large variety of setting springs
- Non-tamper safety cap

Typical Applications

- Pressure relief/sustaining valves (Standard model 3PBL-R)
- Differential pressure sustaining valves (3PBL-DR)
- Surge Anticipating Valves, high pressure pilot (3PBL-R)
- Downstream over-pressure guard, feature 48 (3PBL-R)

Technical Data

Pressure Rating: 25 bar

Water Temperature Range: 0-80 °C

Flow Factor: Kv 0.96

Height (H): 185 mm; with 25 bar spring Z- 243 mm

Width (W): 60 mm

Weight: 1.2 Kg; with 25 bar spring Z- 1.7 Kg

Standard Materials:

Body: Bronze or St. St. 316

Cover: Brass, St. St. 316 or Polyamide (for cold water)

Lower Plug: St. St. 316, Brass or Polyamide

Diaphragm & Seals: NBR or EPDM

Internal Parts: Stainless Steel & Brass

Spring: Stainless Steel

Optional Materials:

Body: Nickel Aluminum Bronze, Hastelloy, Super Duplex

Cover: Nickel Aluminum Bronze, Hastelloy, Super Duplex

Diaphragm & Seals: FPM (Viton®)

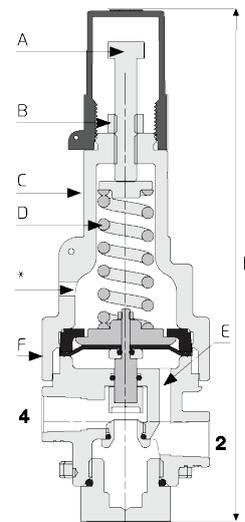
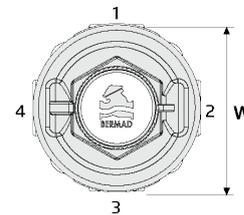
The technical data refers to metal cover and lower plug only.

Adjustment Range:

Spring	Spring Color	Setting range	Material
J	Green	0.2-1.7 bar	
K	Gray	0.5-3.0 bar	St. St. 302
Y	Gray & Red	0.5-3.0 bar	St. St. 316
N*	Natural	0.8-6.5 bar	
L*	Red & Orange	0.8-6.5 bar	
V	Blue & White	1.0-10.0 bar	St. St. 302
T	Blue & Red	1.0-10.0 bar	St. St. 316
P	White	1.0-16.0 bar	St. St. 302
W	White & Red	1.0-16.0 bar	St. St. 316
Z	Red	5.0-25.0 bar	St. St. 316

Standard spring - marked in bold

* For #3PBL-DR - differential pressure for flow control



Part	Description
A	Adjusting screw
B	Locking nut
C	Cover
D	Spring
E	Internal sensing
F	Body

Port	Size	Connections
2	¼" NPT	In
4	¼" NPT	Out
1/3	¼" NPT	Remote sensing or pressure gauge
*	⅛" NPT	Optional