



Pressure Reducing Pilot Valve

Model FP#2PBL

The model FP#2PBL is a direct acting, single seated spring loaded diaphragm pressure reducing pilot valve. It is actuated by a pressure responsive diaphragm, which tends to reach equilibrium with the pre-set and field adjustable spring force. It's fully balanced poppet design ensures high accuracy and stability.

When installed as a Pressure Reducing pilot valve on a BERMAD Water Control or Deluge valve, it automatically controls the main valve to reduce a higher inlet pressure to a lower constant outlet pressure, maintaining the chosen pre-set downstream pressure regardless of fluctuations in the high pressure supply line.



(for Illustration Only)

Features

- Internal pressure sensing
- Fully balanced for accuracy and stability
- Wide flow range
- Available with differential pressure sensing
- Optional remote sensing

Typical Applications

- Pressure control deluge valves, sizes 1½-10" (model FP#2PBL-P or W)
- Pressure reducing valves, sizes 1½-10" (model FP#2PBL-P or W)
- Pressure Differential Control Valve (PDCV) sizes 1½-10" (model FP#2PBL-DY)
- Air Pressure Regulator on BERMAD AMD-75/76 (model FP#2PBL-Y)

Approvals

- UL-Listed and FM Approved when installed on BERMAD specific valve models

Technical Data

- Pressure Rating: 28 bar (400 psi), 50 bar version model 2PBL-HP available
- Working Temperature: Water up to 80°C (180°F)
- Flow Factor: Kv 0.96 (Cv 1.13)

Standard Materials

- Body: Bronze ASTM B584
- Cover: Brass
- Elastomers: NBR (Buna N)
- Internals: Stainless Steel & Brass
- Spring: Stainless Steel (see table)
- Tamper Proof Cap: Polycarbonate

Optional Materials

- All Stainless Steel 316, CF8M Body
- Nickel Aluminum Bronze ASTM B171 GR.C63000 Body
- Super Duplex 25Cr Body

Adjustment Range

Spring	Pressure		Application
	bar	psi	
P / W	2-16	30-235	PRV/Deluge
Y	0.5-3	7-43	Air Regulator/PDCV

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

Connections

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

