



## Pressure Relief 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

- Pressure Relief with internal or external pressure sensing
- Available with differential pressure sensing

#### Typical Applications

- Pressure Relief valve sizes 1½-6" (Standard model #3PB)
- Differential Pressure sustaining valves, sizes 1½-6" (with sealed cover)
- Direct Acting Pressure Relief valve for Fusible Plugs pilot line

#### Approvals

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

#### Technical Data

- Pressure Rating: 25bar (365psi)
- Working Temperature: Water up to 80°C (180°F)
- Flow Factor: Kv 0.48 (Cv 0.56)

#### Materials

##### Brass/Bronze Construction

- Body: Bronze ASTM C83600
- Cover: Forged Brass
- Wetted Parts: Stainless Steel 304, Brass
- Elastomers: NBR
- Spring: Stainless Steel 302

##### Stainless steel Construction

- Body: Stainless Steel 316, ASTM A351 Gr. CF8M
- Cover: Stainless Steel 316, ASTM A351 Gr. CF8M
- Wetted Parts: Stainless Steel 316
- Elastomers: NBR
- Spring: Stainless Steel 316

##### NAB Construction

- Body: Ni-Al-Bronze ASTM B148 C95500
- Cover: Stainless Steel 316, ASTM A351 Gr. CF8M
- Wetted Parts: Monel 400
- Elastomers: NBR
- Spring: Stainless Steel 316

#### Adjustment Range

Spring	Pressure		Application
	bar	psi	
M	4-16	60-235	Class #150 / PN16 Relief Valve
Z	8.6-25	12-365	Class #300 / PN25 Relief Valve
J	0.2-1.7	3-25	Differential Pressure Sustaining

#### Connections

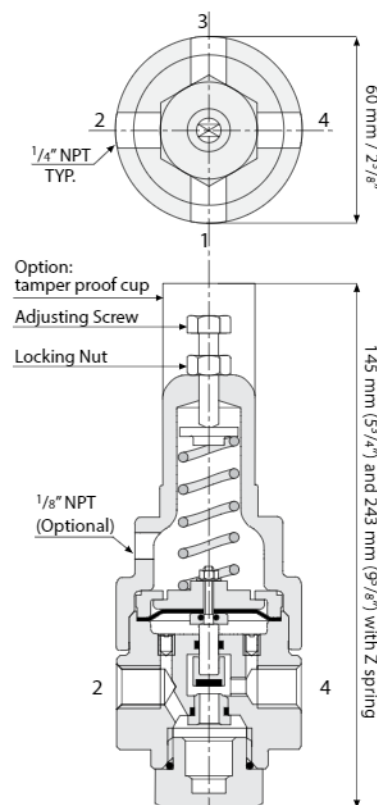
- 1 - Remote sensing
- 2 - Valve control chamber
- 3 - Remote sensing (alternative to 1)
- 4 - Downstream

#### Note:

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



(for Illustration Only)



Weight: 1.5 Kg (3.3 lbs)  
1.7 Kg (3.7 lbs) with Z spring