

# PRESSURE REDUCING PILOT VALVE

## WITH INTEGRAL NEEDLE VALVE

### Model #2

This pilot integrates all principal functions of a 2-Way control circuit in a single assembly. It 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 reducing circuit, the pilot modulates closed as downstream pressure rises above set point. An integral needle valve acts as an upstream flow restrictor as well as a closing speed control.

### Features

- Integral needle valve
- Internal or external pressure sensing
- Differential pressure sensing
- Direct pressure gauge installation

### Typical Applications

- Pressure Reducing Valves sizes (Standard model #2)
- Flow Control Valves (Modified to differential sensing #2-DR)
- Surge Anticipating Valves as low pressure pilot (Modified to external pressure sensing #2-R)
- Surge control closing additional feature 49 (Modified to external pressure sensing #2-R)

### Technical Data

**Pressure Rating:** 40 bar; 600 psi

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

**Flow Factor:** Kv 1.0; Cv 1.2

**Valve Size Range:** Medium

#### Standard Materials:

**Body & cover:** Brass

**Elastomers:** NBR

**Internals:** Stainless Steel & Brass

**Spring:** Galvanized Steel

#### Optional Materials:

**Metal Parts:** Stainless Steel, Nickel Aluminum Bronze, Hastalloy

**Elastomers:** FPM (Viton®)

### Adjustment Range

Spring	Pressure	
	bar	psi
3	0.5-3	7-43
10	0.8-10	11-150
16	1-16	15-230
25*	2-25	30-350
16*	2-30	30-430
16*	2-45	30-650

Standard  
Optional

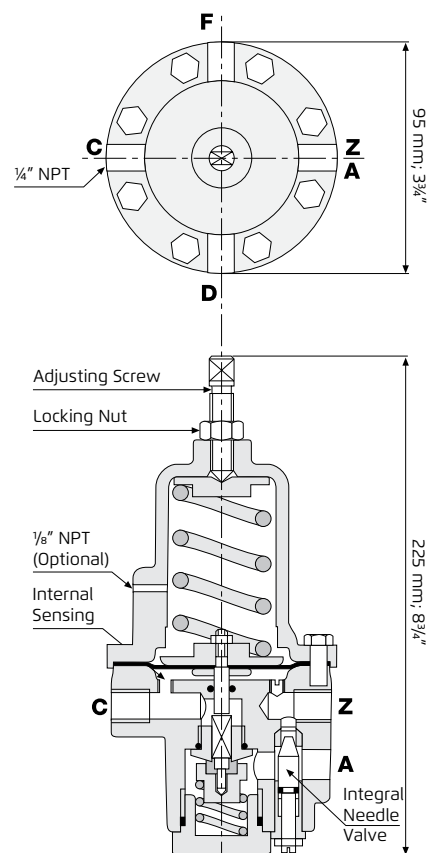
\* With high pressure setting kit

### Connections

**Z** - Upstream    **A** - Valve control chamber

**C** - Downstream    **F/D** - External sensing/pressure gauge

\* Always recommended to refer to control diagram



**Weight: 2.7 Kg; 6 lbs.**

High pressure setting kit add 128; mm; 5" to pilot height.