

# POSITIONING PILOT VALVE

## Model #X

This multi-purpose, direct acting, 3-Way positioning pilot is actuated by a pressure responsive diaphragm, which tends to reach equilibrium with the set spring force.

The pilot directs flow and pressure between its ports:

- When sensed pressure is above set point, it connects port "C" to "O".
- When sensed pressure is equal to set point, it blocks connections between all ports.
- When sensed pressure is below set point, it connects port "C" with "A" and "Z". An integral needle valve restricts flow through port "Z".

## Typical Applications

- Pressure Reducing Valves
- Pressure Sustaining Valves
- Adjustable hydraulic relay (N.O. or N.C.)
- Automatic regulation override (feature 09)

## Technical Data

**Pressure Rating:** 25 bar; 400 psi

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

**Flow Factor:**

Closing (O to C): Kv 0.26; Cv 0.3

Opening (C to A): Kv 0.35; Cv 0.4

**Valve Size Range:** Small - 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	Standard
10	0.8-10	11-150	
16	1-16	15-230	Optional
25*	2-25	30-350	

\* With high pressure setting kit

## Connections

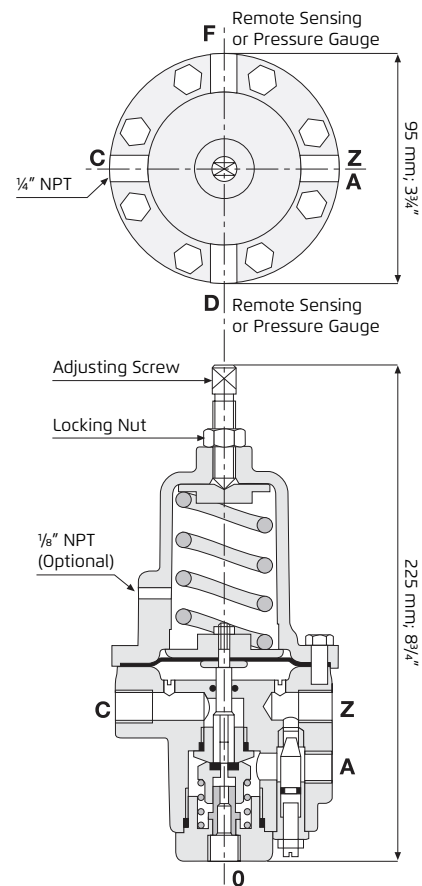
**O** - Upstream for reducing, vent for sustaining

**C** - Valve control chamber

**A/Z** - Vent for reducing, upstream for sustaining

**F/D** - 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