



Positioning Pilot Valve

Model #X

This multi-purpose, direct acting, 3-Way positioning pilot valve 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 (Type X) sizes 1 1/2-10"
- Pressure Sustaining Valves (Type X) sizes 1 1/2-10"
- Adjustable hydraulic relay (N.O. or N.C.)
- Automatic regulation override (feature 09) sizes 1 1/2-10"

Technical Data

Pressure Rating: 25 bar; 350 psi

Working Temperature: Water up to 80°C; 180°F

Flow Factor:

O to C: Kv 0.26 m³/h @ 1bar ΔP; Cv 0.3 GPM @ 1psi ΔP

C to A: Kv 0.35 m³/h @ 1bar ΔP; Cv 0.4 GPM @ 1psi ΔP

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	
16	1-16	15-230	Standard
10	0.8-10	7-150	Optional

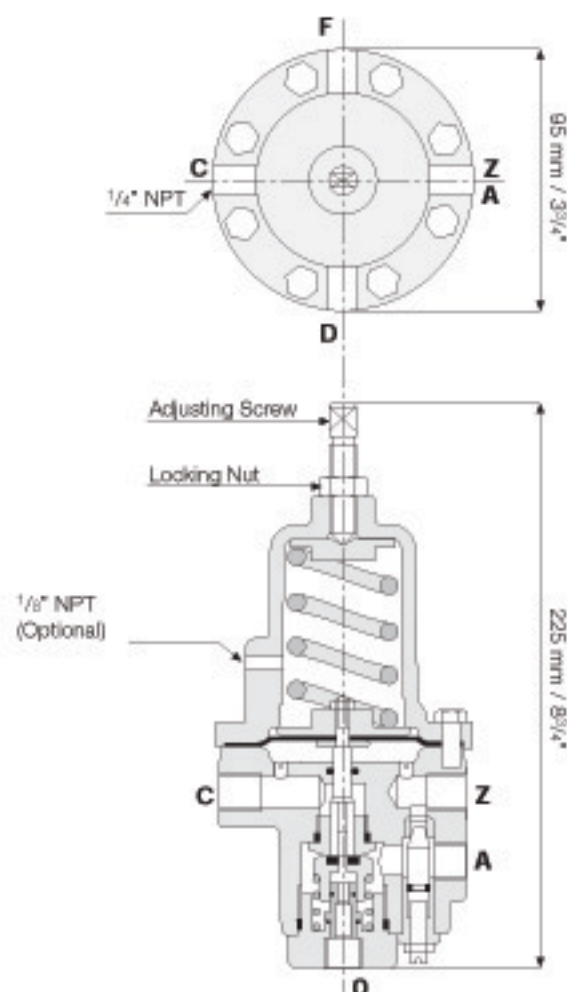
Connections

O - Upstream for reducing, vent for sustaining

C - Valve control chamber

A/Z - Vent for reducing, upstream for sustaining

F/D - Sensing/pressure gauge



Weight: 2.7 Kg / 6 lbs.