

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

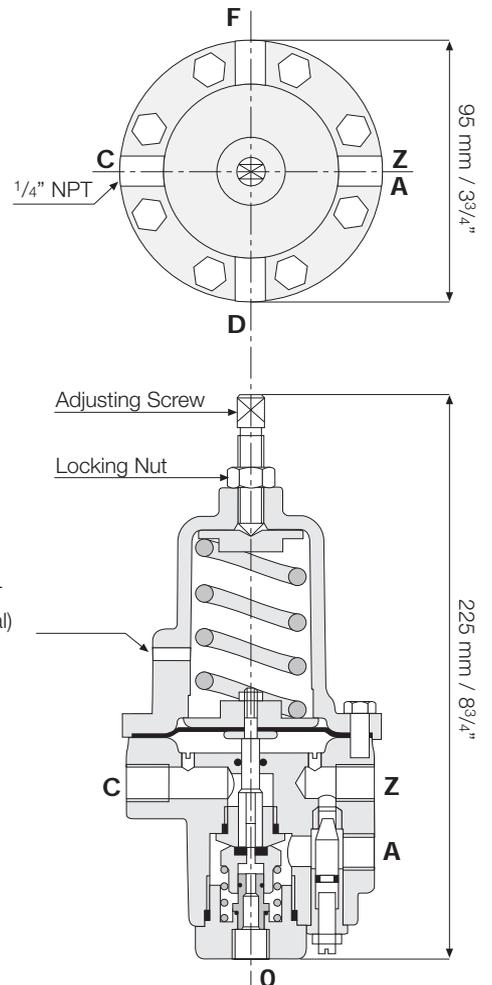
Pressure Rating: 25 bar; 350 psi
Working Temperature: Water up to 80°C; 180°F
Flow Factor:
 0 to C: Kv 0.26 m³/h @ 1bar ΔP; Cv 0.3 GPM @ 1psi ΔP
 C to A: Kv 0.35 m³/h @ 1bar ΔP; Cv 0.4 GPM @ 1psi ΔP
Standard Materials:
Body & cover: Brass
Elastomers: NBR
Internals: Stainless Steel & Brass
Spring: Galvanized 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

- 0 - 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.





Altitude Positioning Pilot Valve

Model #8

This high sensitivity, 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"



Technical Data

Pressure Rating: 16 bar; 230 psi

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

Flow Factor:

0 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

Diaphragm Covers: Fusion bonded epoxy coated steel

Elastomers: NBR

Internals: Stainless Steel & Brass

Spring: Galvanized Steel

Optional Materials:

Metal Parts:

Stainless Steel, Nickel Aluminum Bronze, Hastalloy

Elastomers: FPM (Viton®)

Adjustment Range

Code	Pilot	
	Meter	Feet
M6	2-14	7-46
M5	5-22	17-72
M4	15-35	49-115
M8	25-70	82-230

Standard

Optional

Connections

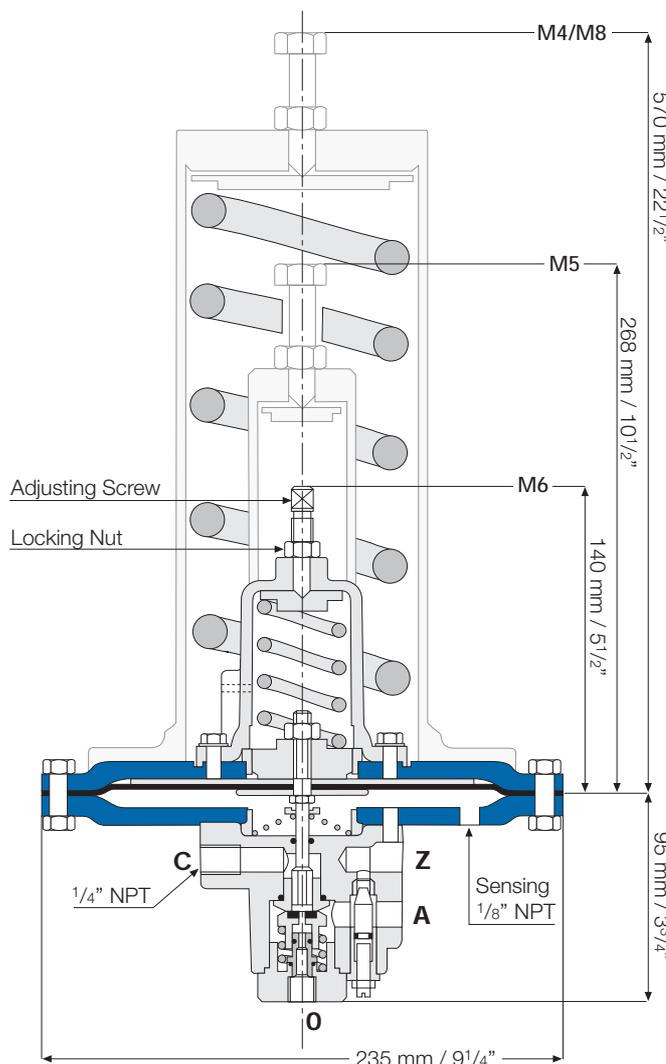
0 - Upstream

C - Valve control chamber

A - Vent (Z plugged)

Z - Vent through needle valve (A plugged)

Sensing - Still point at reservoir bottom



Weights: M6 -10 Kg; 22 lbs. M5 -11 Kg; 24 lbs.
M4 -19 Kg; 42 lbs. M8 -22 Kg; 49 lbs.

