



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:

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

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

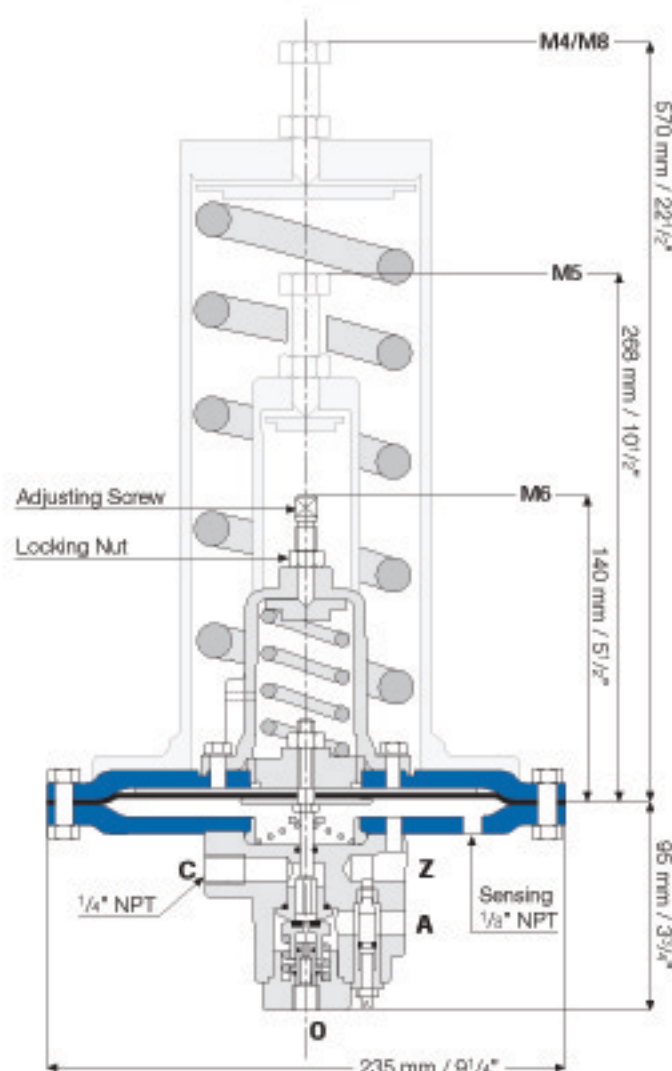
O - Upstream

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.

