



High Sensitivity Pressure Reducing Pilot Valve

Model #82

This pilot integrates all principal functions of a 2-Way control circuit in a single assembly. It is a high sensitivity, direct acting pilot 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
- Differential pressure sensing (model #7)

Typical Applications

- Modulating Altitude Control Valves sizes 1 1/2-14"
- High Sensitivity Pressure Reducing Valves sizes 1 1/2-14"
- Low ΔP Flow Control Valves sizes 1 1/2-14"
(modified to differential sensing model #7)

Technical Data

Pressure Rating: 16 bar; 230 psi

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

Flow Factor: Kv 1.0 m³/h @ 1bar ΔP; Cv 1.26 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

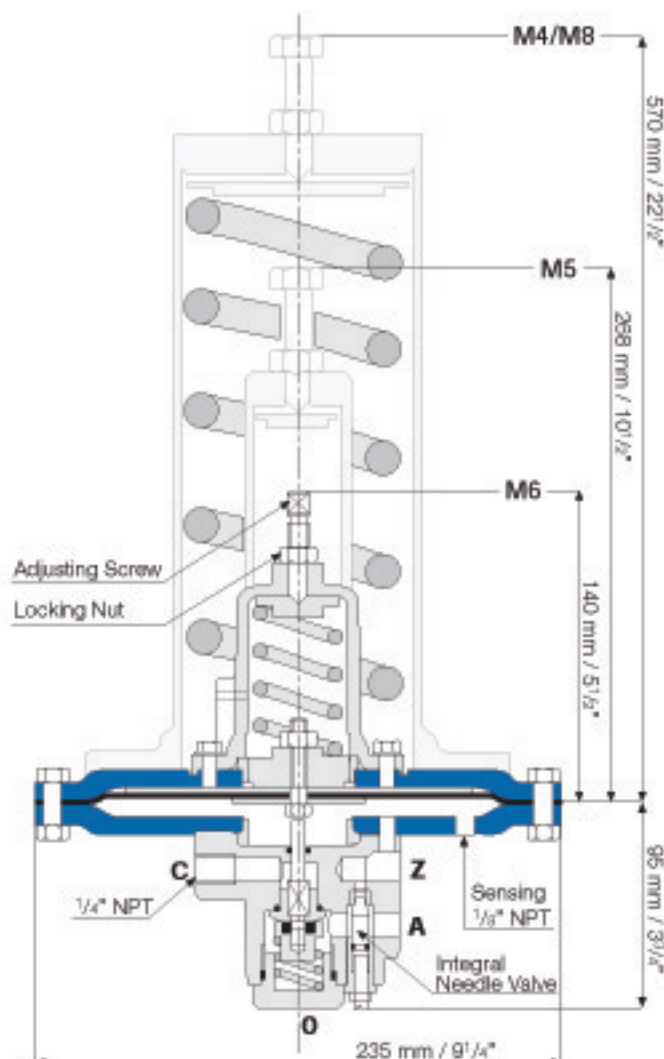
Connections

Z - Upstream

A - Valve control chamber

C - Downstream

Sensing - For altitude control – still point at reservoir bottom
For pressure reducing – to valve downstream



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