

HIGH SENSITIVITY PRESSURE REDUCING PILOT VALVE

Model #82/#7

This pilot integrates all principal functions of a 2-Way control circuit in a single assembly.

It is a high sensitivity, direct acting 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
- High Sensitivity Pressure Reducing Valves
- Low ΔP Flow Control Valves
(modified to differential sensing model #7)

Technical Data

Pressure Rating: 16 bar; 230 psi
Working Temperature: Water up to 60°C; 150°F
Flow Factor: Kv 1.0; Cv 1.2
Valve Size Range: Small - Medium

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: EPDM, FPM (Viton®)

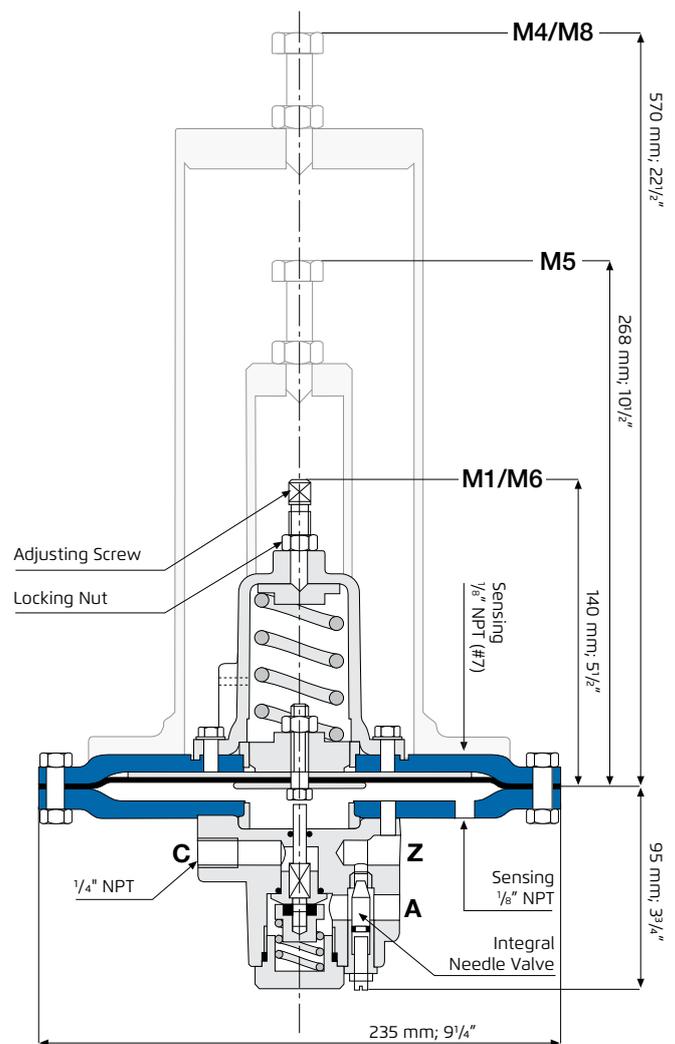
Adjustment Range

Code	Pressure		
	Meter	Feet	
M1	2-8	7-26	Standard
M6	2-14	7-46	
M5	5-22	17-72	Optional
M4	15-35	49-115	
M8	25-70	82-230	

Connections

Z - Upstream **A** - Valve control chamber **C** - Downstream
Sensing - For altitude control – still point at reservoir bottom
 For pressure reducing – to valve downstream

*Always recommended to refer to control diagram



Weights: M1/M6 -10 Kg; 22 lbs. M5 -11 Kg; 24 lbs.
 M4 -19 Kg; 42 lbs. M8 -22 Kg; 49 lbs.

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