

ALTITUDE POSITIONING PILOT VALVE

Model #8

This high sensitivity, direct acting, 3-Way positioning pilot 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: 25 bar; 400 psi

Working Temperature: Water up to 60°C; 150°F

Flow Factor:

Closing (O to C): Kv 0.26; Cv 0.3

Opening (C to A): Kv 0.35; Cv 0.4

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: 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

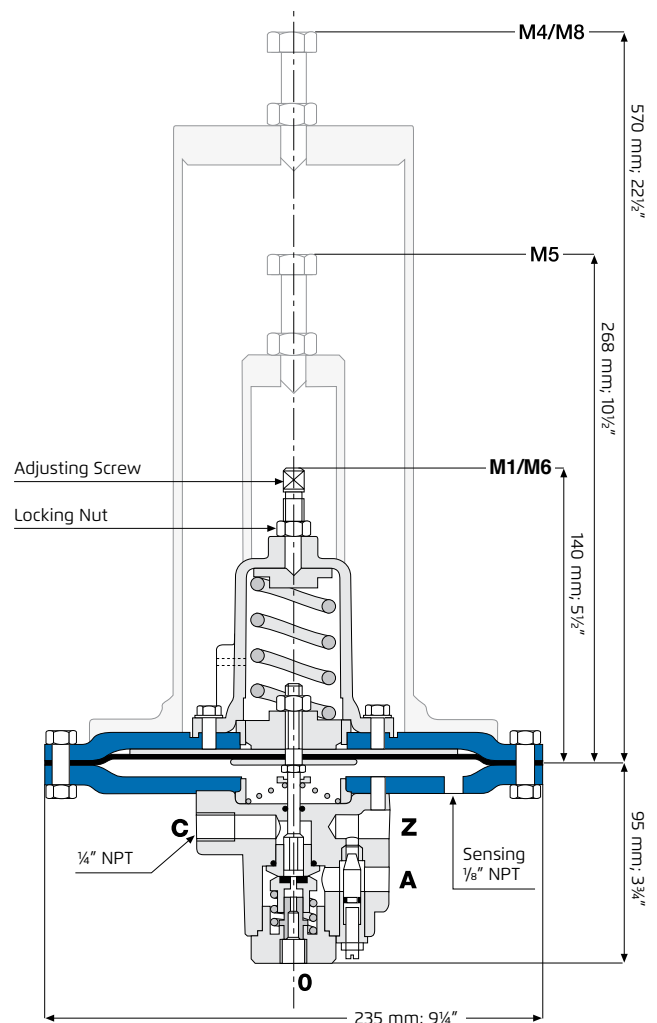
O - Upstream for reducing (reservoir filling), vent for sustaining (reservoir outlet)

C - Valve control chamber

A/Z - Vent for reducing, upstream for sustaining

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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