# 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 "0"
- 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 (0 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

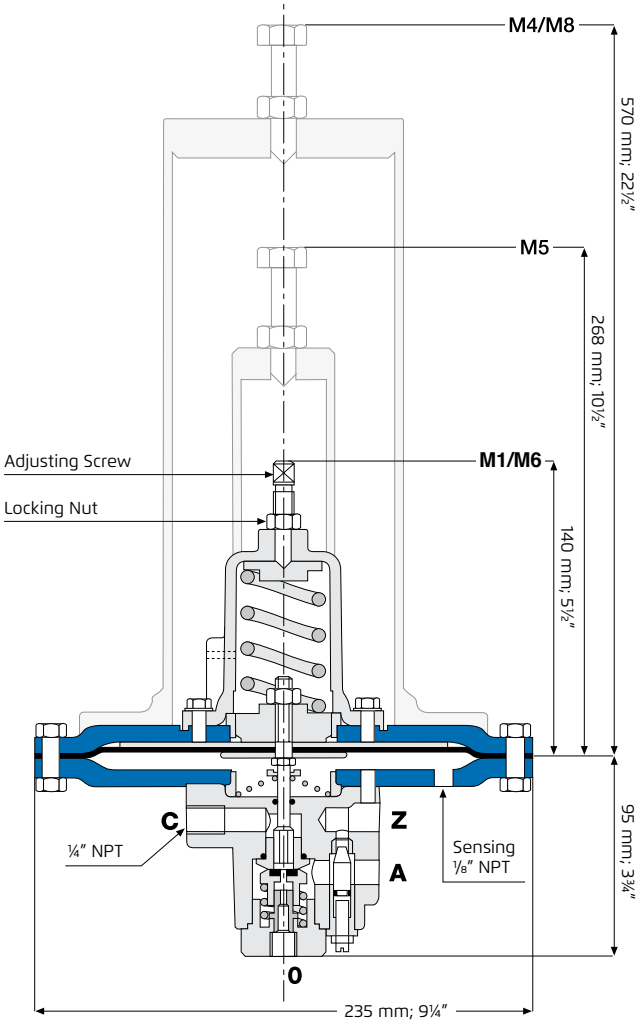
| Code | Pressure | |
|---|---|---|
| | Meter | Feet |
| M1 | 2-8 | 7-26 |
| M6 | 2-14 | 7-46 |
| M5 | 5-22 | 17-72 |
| M4 | 15-35 | 49-115 |
| M8 | 25-70 | 82-230 |

Standard
Optional

## Connections

**0** - Upstream 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.**

All images in this catalog are for illustration only