

## High Sensitivity Pressure Reducing Pilot Valve

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 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

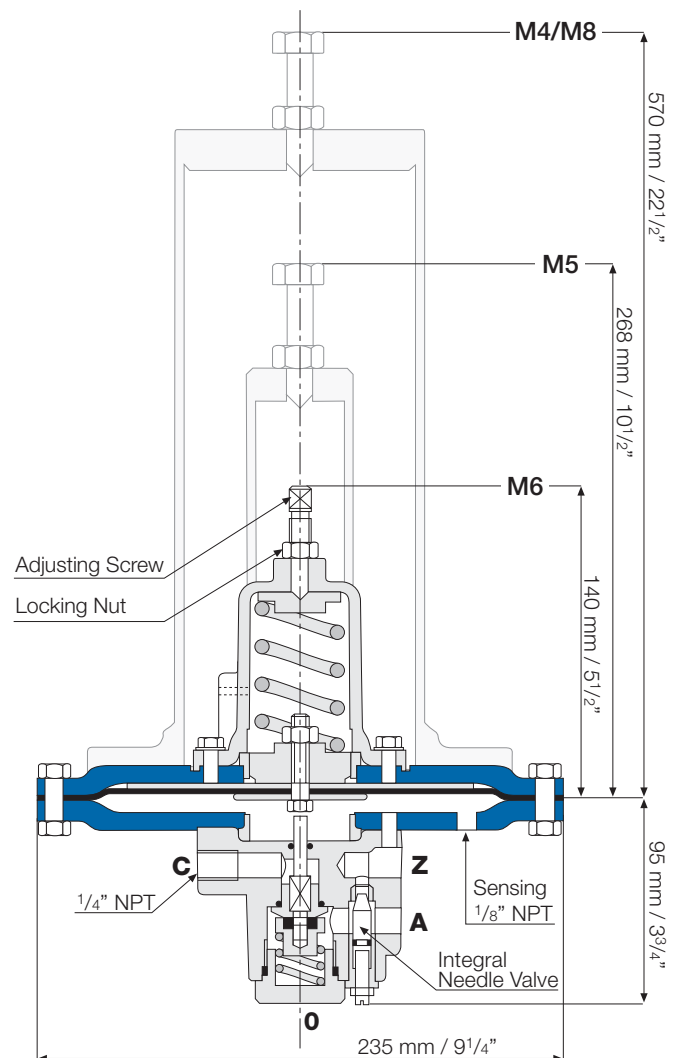
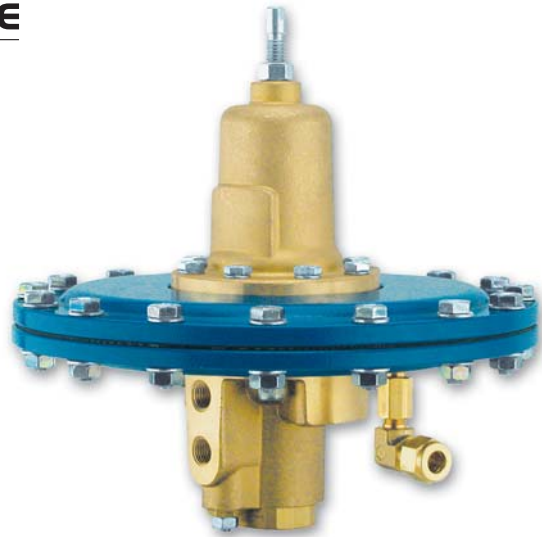
**Pressure Rating:** 16 bar (230 psi)  
**Working Temperature:** Water up to 80°C (180°F)  
**Flow Factor:** Kv 1.0 (Cv 1.2)  
**Standard Materials:**  
**Body & cover:** Brass  
**Diaphragm Covers:** Fusion bonded epoxy coated Steel  
**Elastomers:** NBR  
**Internals:** Stainless Steel & Brass  
**Spring:** 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	Standard
M5	5-22	17-72	
M4	15-35	49-115	Optional
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



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

