



# HIGH SENSITIVITY PRESSURE REDUCING PILOT VALVE

# Model 82 Pilot

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

# **Typical Applications**

- Modulating Altitude Control Valves
- High Sensitivity Pressure Reducing Valves

#### **Technical Data**

Pressure Rating: 16 bar

Water Temperature Range: 0-60 °C

Flow Factor: Kv 1.0

Weight: M1/M6 - 10 Kg; M5 - 11 Kg; M4 - 19 Kg; M8 - 22 Kg

### **Standard Materials:**

Body: Brass or Stainless Steel 316 Cover: Brass or Stainless Steel 316 Diaphragm Covers: Epoxy coated steel Diaphragm & Seals: NBR or EPDM Internal Parts: Stainless Steel & Brass Spring: Stainless or Galvanized Steel

## **Optional Materials:**

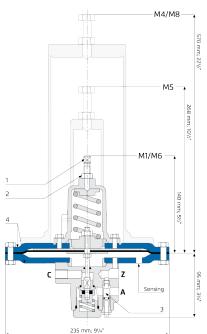
Diaphragm & Seals: FPM (Viton®)

#### Adjustment Range:

Spring	Setting range
M1	2-8 meter
M6	2-14 meter
M5	5-22 meter
M4	15-35 meter
M8	25-70 meter

Standard spring - marked in bold





Part	Description	
1	Adjusting screw	
2	Locking nut	
3	Integral needle-valve	
4	Diaphragm covers	

Port	Size	Connections
Α	¼" NPT	Valve Control Chamber
C	¼" NPT	Downstream
Z	¼" NPT	Upstream
Sensing	) %" NPT	For altitude control - still point at reservoir bottom. For pressure reducing - to valve downstream

Always recommended to refer to control diagram



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