

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: 230 psi

Water Temperature Range: 32-150 °F

Flow Factor: Cv 1.2

Weight: M1/M6 - 22 Lbs; M5 - 24 Lbs; M4 - 42 Lbs; M8 - 49 Lbs

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

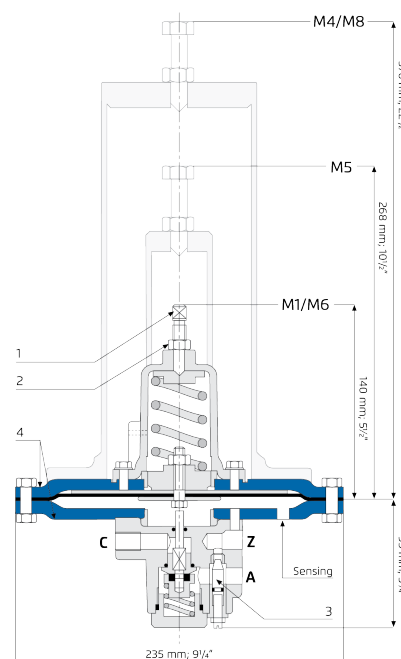
Optional Materials:

Diaphragm & Seals: FPM (Viton®)

Adjustment Range:

Spring	Setting range
M1	7-26 feet
M6	7-46 feet
M5	17-72 feet
M4	49-115 feet
M8	82-230 feet

Standard spring - marked in bold



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

Port	Size	Connections
A	1/4" NPT	Valve Control Chamber
C	1/4" NPT	Downstream
Z	1/4" NPT	Upstream
Sensing	1/8" NPT	For altitude control - still point at reservoir bottom. For pressure reducing - to valve downstream

Always recommended to refer to control diagram