

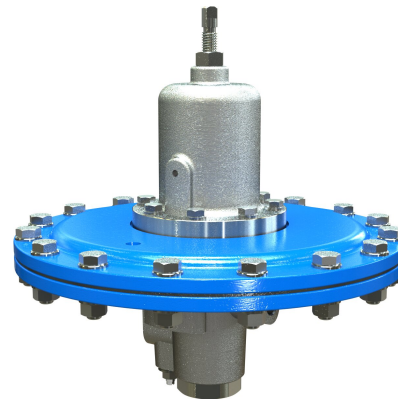
ALTITUDE POSITIONING PILOT VALVE

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

Water Temperature Range: 0-60 °C

Flow Factor:

Ports "O" to "C": Kv 0.26

Ports "C" to "A": Kv 0.35

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

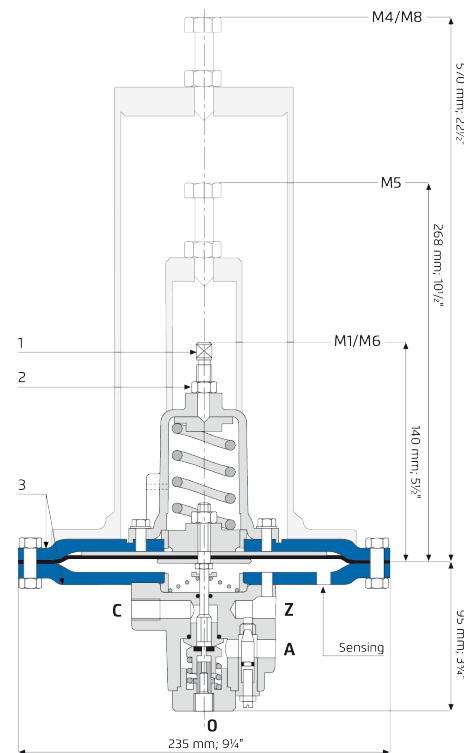
Optional Materials:

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	Diaphragm covers

Port	Size	Connections
O	1/4" NPT	Upstream for reducing (reservoir filling), vent for sustaining (reservoir outlet)
A/Z	1/4" NPT	Vent for reducing, upstream for sustaining
C	1/4" NPT	Valve Control Chamber
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