

POSITIONING PILOT VALVE

Model X

This multi-purpose, 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".

Typical Applications

- Pressure Reducing Valves
- Pressure Sustaining Valves
- Adjustable hydraulic relay (N.O. or N.C.)
- Automatic regulation override (feature 09)

Technical Data

Pressure Rating: 400 psi

Water Temperature Range: 32-150 °F

Flow Factor:

Ports "O" to "C": Cv 0.3

Ports "C" to "A": Cv 0.4

Height (H): 9.1 Inch

Weight: 6.2 Lbs

Standard Materials:

Body: Brass or Stainless Steel 316

Cover: Brass or Stainless Steel 316

Diaphragm & Seals: NBR or EPDM

Internal Parts: Stainless Steel & Brass

Spring: Stainless Steel

Optional Materials:

Body: Nickel Aluminum Bronze, Hastelloy, Super Duplex

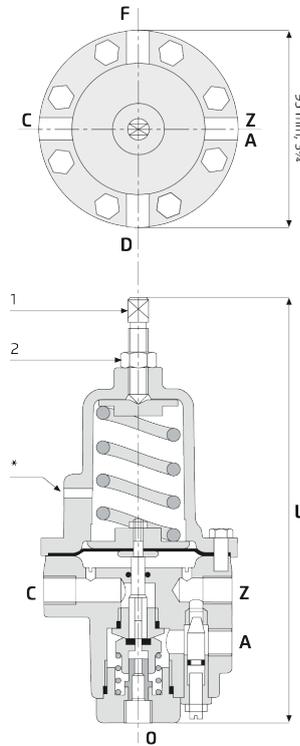
Cover: Nickel Aluminum Bronze, Hastelloy, Super Duplex

Diaphragm & Seals: FPM (Viton®)

Adjustment Range:

Spring	Setting range
3	7-43 psi
10	11-116 psi
16	15-230 psi

Standard spring - marked in bold



Part	Description
1	Adjusting screw
2	Locking nut

Port	Size	Connections
O	1/4" NPT	Upstream for reducing, vent for sustaining
A/Z	1/4" NPT	Vent for reducing, upstream for sustaining
C	1/4" NPT	Valve Control Chamber
F/D	1/4" NPT	Remote sensing or pressure gauge
*	1/8" NPT	Optional (Low Pressure Sensing for differential pilot)

Always recommended to refer to control diagram