SERVO 2/3 WAY MINI PILOT

Model PC-S-A-MP

This pilot combines all principal functions of a 2-way control circuit with elements of a 3-way control circuit. It is a direct acting pilot valve, actuated by a pressure responsive diaphragm, which seeks to reach equilibrium between hydraulic and set spring forces. A fully balanced trim ensures high accuracy and stability. When used in a pressure reducing circuit, the pilot modulates closed as downstream pressure rises above setting. The pilot's unique internal design dynamically increases and decreases the main valve response speed in direct proportion to the discrepancy between actual demand and pilot setting pressures.

Features

- Integrated Dynamic Upstream Flow Restrictor
- Often Used as Differential Pressure Sensing
- Direct Pressure Gauge Installation

Typical Applications

- Pressure Reducing Valves (low pressure irrigation using lay flat - for example)
- Flow Control Valves (Differential Pilot: PC-SD-A-MP, sealed cover)
- Differential Pressure Sustaining Valves (Differential Pilot: PC-SD-A-MP, sealed cover)

Technical Data

Pressure Rating: 232 psi
Water Temperature Range: 32-140 °F
Flow Factor:
Ports inlet to outlet: Cv 0.1
Height (H): 6.3 Inch
Weight: 1.65 Lbs

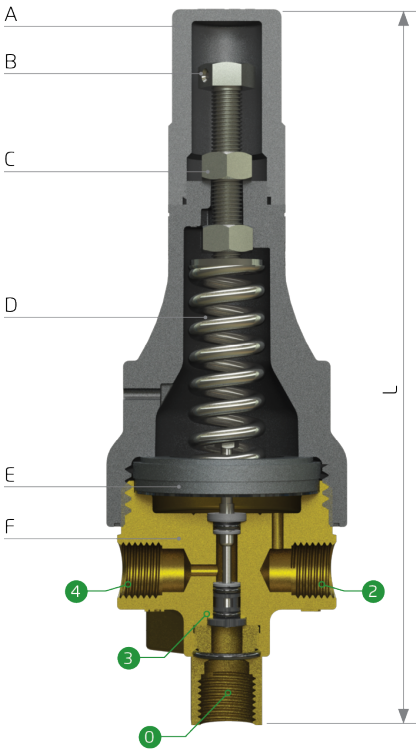
Standard Materials:

Body: Brass
Cover: Polyamide 6 & 30% GF
Diaphragm & Seals: NBR
Internal Parts: Stainless Steel
Spring: Stainless Steel

Adjustment Range:

Spring	Spring Color	Setting range	Material
J	Green	3-25 psi	
K	**Gray**	**7-43 psi**	**St. St. 302**

Standard spring - marked in bold

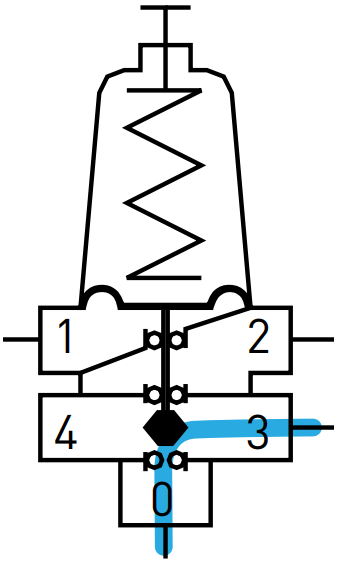


Part	Description
A	Non-tamper safety cap (Optional)
B	Adjusting screw
C	Locking nut
D	Calibration spring
E	Diaphragm
F	Body

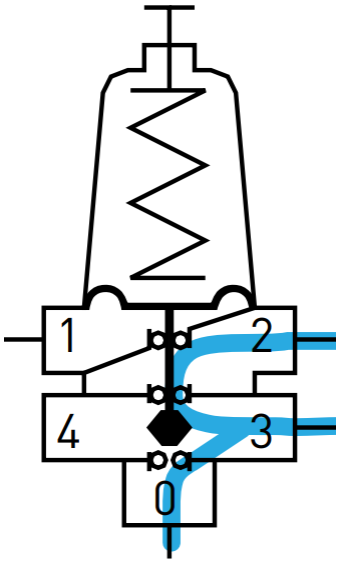
Port	Connections
0	Upstream for reducing
1	Sensing
2	Sensing, Regulated Pressure; Downstream for Reducing
3	Valve Control Chamber

Operation:

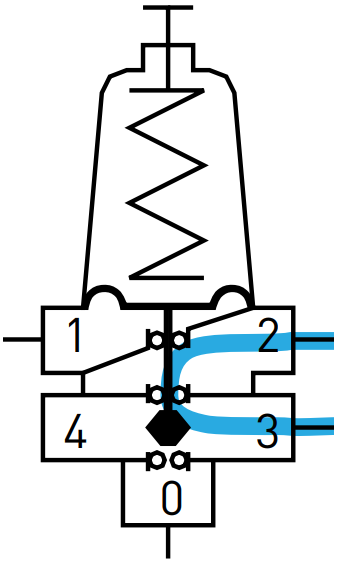
The Servo 2/3 way mini pilot is connected to the regulated pressure source according to the application. When used in a pressure reducing circuit, the pilot modulates closed as downstream pressure rises above setting.



Modulating close
Regulated pressure
higher than setting:
0 <--> 3



Stable Position
Regulated pressure
equal to setting:
0 <--> 3 <--> 2
controlled passage



Modulating Open
lower than setting:
3 <--> 2