

PRESSURE SUSTAINING 2-WAY MINI PILOT

Model PC-30-A-MP

This is a 2-way direct acting pilot valve, actuated by a pressure responsive diaphragm, which seeks to reach equilibrium between hydraulic and set spring forces. When used in a pressure sustaining circuit, the pilot modulates open as upstream pressure rises above set point.

Features

- High Quality
 - All calibration springs made of Stainless Steel
- Differential pressure sensing
- Direct Pressure Gauge Installation

Typical Applications

- Pressure Sustaining Valves Installed Inline
- Circulation Valves Installed Offline
- Differential Pressure Sustaining

Technical Data

Pressure Rating: 232 psi

Water Temperature Range: 32-140 °F

Flow Factor:

Ports inlet to outlet: Cv 0.75

Height (H): 6.3 Inch

Weight: 1.41 Lbs

Ports: ¼" NPT

Standard Materials:

Body: Brass

Cover: Polyamide 6 & 30% GF

Diaphragm & Seals: NBR

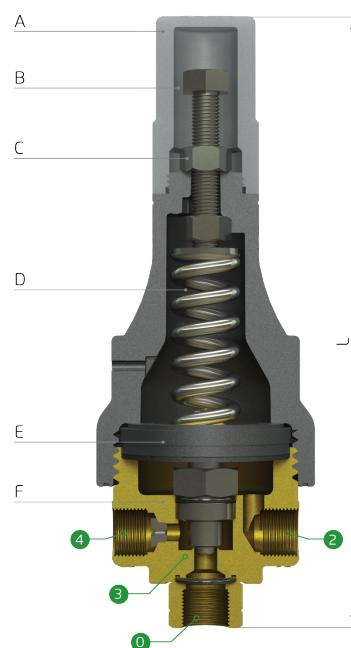
Internal Parts: Stainless Steel

Spring: Stainless Steel

Adjustment Range:

Spring	Spring Color	Setting range	Material
N	Natural	12-95 psi	St. St. 302
V	Blue & White	15-150 psi	St. St. 302

Standard spring - marked in bold

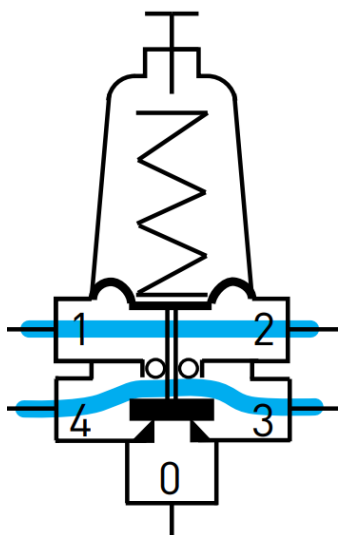


Part	Description
A	Non-tamper safety cap (Optional)
B	Adjusting screw
C	Locking nut
D	Calibration spring
E	Diaphragm
F	Body

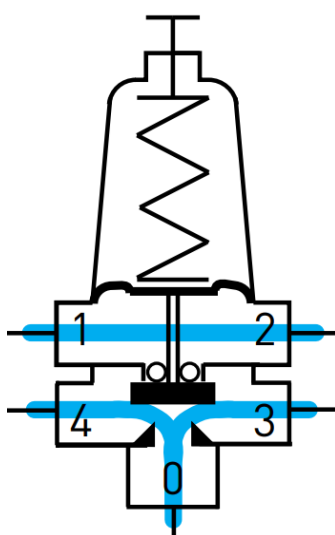
Port	Connections
0	Downstream
1,2	Sensing / Pressure Gauge
3	Valve Control Chamber
4	Upstream (Through internal restriction)

Operation:

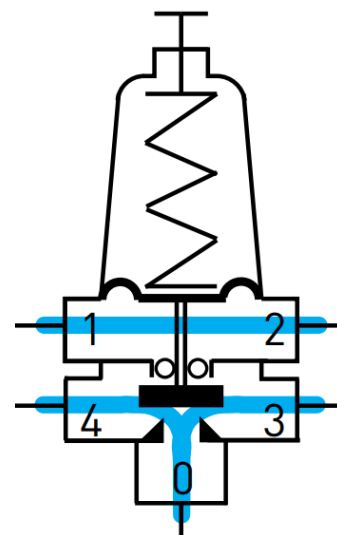
The PC-30 sensing chamber is connected to the valve upstream pressure in a pressure sustaining circuit, the pilot modulates closed as upstream pressure drops below set point, and modulates to open when upstream pressure rises above set point, the 2W pilot is following the pressure sustaining valve position in the main line.



Modulating close
Regulated pressure
Lower than setting:
 $4 \leftrightarrow 3 \mid \leftrightarrow 0$



Stable Position
Regulated pressure
equal to setting:
 $4 \leftrightarrow 3 \leftrightarrow 0$
controlled passage



Modulating Open
Regulated pressure
higher than setting:
 $4 \leftrightarrow 3 \leftrightarrow 0$

Ordering guide:

Cat. no.	Description
500401P800	PC-30-A-MP, W/SPRING "N" (0.8-6.5 bar), 2W-METAL PRESSURE SUSTAINING MINI PILOT VALVE, WITH PLASTIC COVER
500401P500	PC-30-A-MP, W/SPRING "V" (1-10 bar), 2W-METAL PRESSURE SUSTAINING MINI PILOT VALVE, WITH PLASTIC COVER