

PRESSURE SUSTAINING 2-WAY MINI PILOT

Model PC-30-A-P

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 relief/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

Typical Applications

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

Technical Data

Pressure Rating: 10 bar

Water Temperature Range: 0-50 °C

Flow Factor:

Ports inlet to outlet: Kv 0.29

Height (H): 160 mm

Weight: 0.24 Kg

Ports: 1/8" NPT

Standard Materials:

Body: Polyamide 6 & 30% GF

Cover: Polyamide 6 & 30% GF

Diaphragm & Seals: NBR

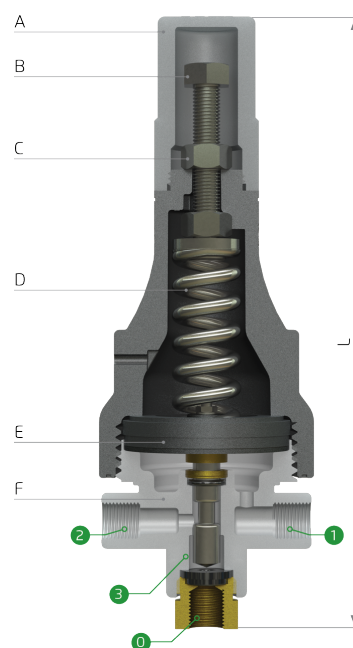
Internal Parts: Stainless Steel

Spring: Stainless Steel

Adjustment Range:

Spring	Spring Color	Setting range	Material
N	Natural	0.8-6.5 bar	St. St. 302
V	Blue & White	1.0-10.0 bar	St. St. 302

Standard spring - marked in bold

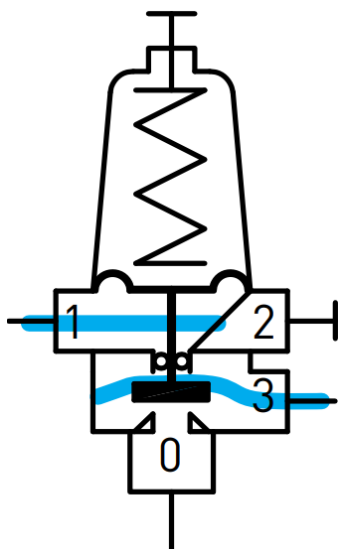


Part	Description
A	Non-tamper safety cap (Optional)
B	Adjusting screw
C	Locking nut
D	Calibration spring
E	Diaphragm
F	Body

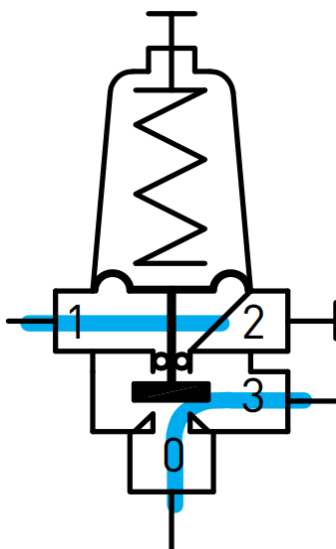
Port	Connections
0	Downstream
1	Remote Sensing
2	Plugged
3	Upstream (Downstream from inlet restriction and from control chamber connection)

Operation:

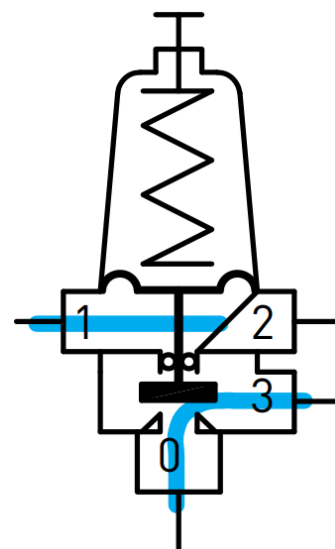
The PC-30 sensing chamber is connected to the valve upstream pressure in a pressure sustaining circuit, the pilot modulates closed as upstream pressure drops below set point, and modulates to open when upstream pressure rises above set point, the 2W pilot is following the pressure sustaining valve position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



Modulating close
Regulated pressure
Lower than setting:
 $0 | < \rightarrow 3$



Stable Position
Regulated pressure
equal to setting:
 $0 < \rightarrow 3$
controlled passage



Modulating Open
Regulated pressure
higher than setting:
 $0 < \rightarrow 3$

Ordering guide:

Cat. no.	Description
500406P200	PC-30-A-P W/SPRING "N" (0.8-6.5 bar), 2W-PLASTIC PRESSURE SUSTAINING PILOT VALVE
500406P500	PC-30-A-P W/SPRING "V" (1-10), 2W-PLASTIC PRESSURE SUSTAINING PILOT VALVE