



Pressure Reducing Servo Pilot Valve, Metal

Model PC-S-M

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
- Differential pressure sensing

Typical Applications

- Pressure Reducing Valves sizes 1 1/2-6" (Standard model PC-S-M)
- Flow Control Valves sizes 1 1/2-6" (Modified to differential sensing PC-SD-M)
- Pressure Sustaining Valves sizes 1 1/2-4" (Standard model connected as Pressure Sustaining pilot)
- Differential Pressure Sustaining Valves sizes 1 1/2-4" (Modified to PC-S-P-D and connected as Pressure Sustaining Pilots)

Technical Data

Pressure Rating: 16 bar; 232 psi

Working Temperature: Water up to 80°C; 180°F

Flow Factor: Kv 0.09 m³/h @ 1 bar Δ psi ; Cv 0.1 GPM @1psi Δp

Standard Materials:

Body: Brass

Cover: Brass

Elastomers: NBR

Internals: Stainless Steel & Brass

Spring: Stainless Steel

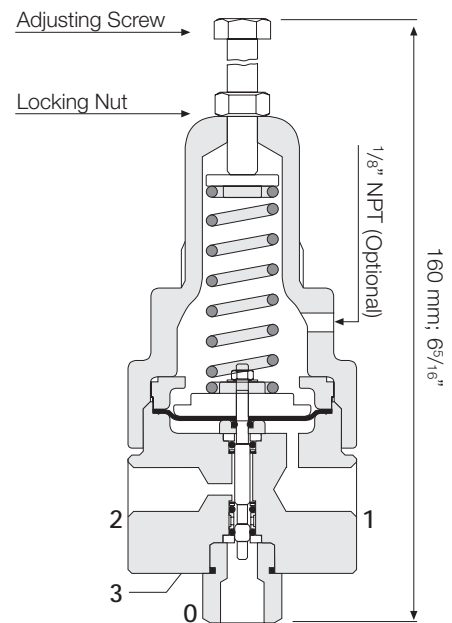
Ports: 1/4" NPT

Adjustment Range

| Spring | Pressure | | |
|---------|----------|------|----------|
| | bar | psi | |
| K-Grey | 0.5-3 | 7-40 | Standard |
| J-Green | 0.2-1.7 | 3-25 | Optional |

Connections

- 0 - Upstream for reducing, Downstream for Sustaining
- 1 - Sensing
- 2 - Downstream for reducing, Upstream for sustaining
- 3 - Valve control chamber



Weight: 1.35 Kg; 3.0 lbs.



Pressure Reducing Servo Pilot Valve, Plastic

Model PC-S-P

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 and setting pressures.

Features

- Integrated dynamic upstream flow restrictor
- Differential pressure sensing

Typical Applications

- Pressure Reducing Valves sizes 1 1/2-4" (Standard model PC-S-P)
- Flow Control Valves sizes 1 1/2-4" (Modified to differential sensing PC-SD-P)
- Pressure Sustaining Valves sizes 1 1/2-4" (Standard model connected as Pressure Sustaining Pilot)
- Differential Pressure Sustaining Valves sizes 1 1/2-4" (Modified to PC-S-P-D and connected as Pressure Sustaining Pilots)

Technical Data

Pressure Rating: 10 bar; 145 psi

Working Temperature: Water up to 50°C; 122°F

Flow Factor: Kv 0.08 m³/h @ 1bar ΔP; Cv 0.09 GPM @ 1psi ΔP

Standard Materials:

Body & Cover: Polyamide 6 + 30% F.G.

Elastomers: NBR

Internals: Stainless Steel & Brass

Spring: Stainless Steel

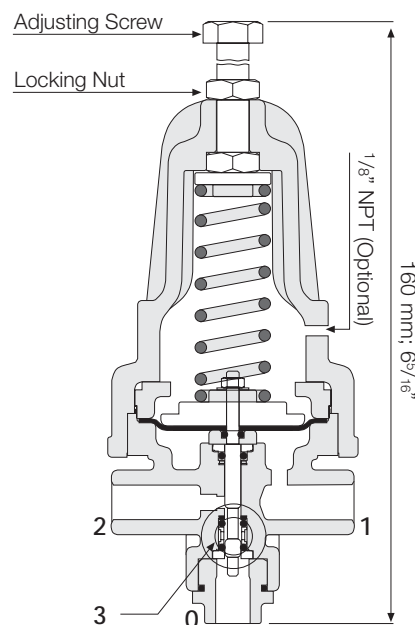
Ports: 1/8" NPT

Adjustment Range

| Spring | Pressure | | |
|---------|----------|------|----------|
| | bar | psi | |
| K-Grey | 0.5-3 | 7-40 | Standard |
| J-Green | 0.2-1.7 | 3-25 | Optional |

Connections

- 0 - Upstream for reducing, Downstream for Sustaining
- 1 - Sensing
- 2 - Downstream for reducing, Upstream for sustaining
- 3 - Valve control chamber



Weight: 0.2 Kg; 0.44 lbs.