

QUICK PRESSURE RELIEF 2-WAY MINI PILOT

Model PC-3Q-A-MP

This pilot integrates all principal functions of a 2-Way control circuit in a single assembly. It is a direct acting pilots valve, actuated by a pressure responsive diaphragm, which seeks to reach equilibrium between hydraulic and set spring forces. The pilot opens at upstream pressure rise above set point. An integral restriction acts as an upstream flow restrictor smoothing valve closing and simplifying the control circuit.

Features

- Internal Restriction
- Direct Pressure Gauge Installation

Typical Applications

- Pressure Relief Valves Quick Type (Downstream to PRV)

Technical Data

Pressure Rating: 232 psi

Water Temperature Range: 32-140 °F

Flow Factor:

Ports inlet to outlet: Cv 0.75

Height (H): 6.1 Inch

Weight: 1.41 Lbs

Ports: ¼" NPT

Standard Materials:

Body: Brass

Cover: Polyamide 6 & 30% GF

Diaphragm & Seals: NBR

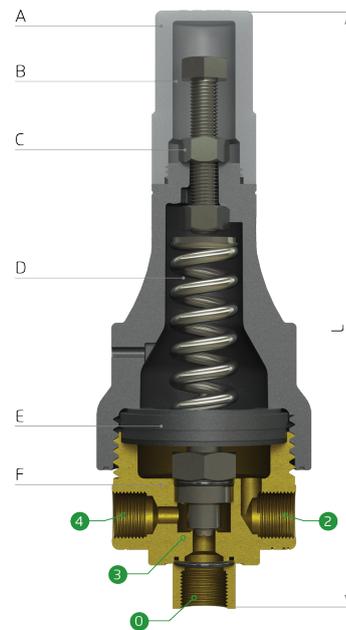
Internal Parts: Stainless Steel

Spring: Stainless Steel

Adjustment Range:

Spring	Spring Color	Setting range	Material
V	Blue & White	15-150 psi	St. St. 302
P	White	15-230 psi	St. St. 302

Standard spring - marked in bold



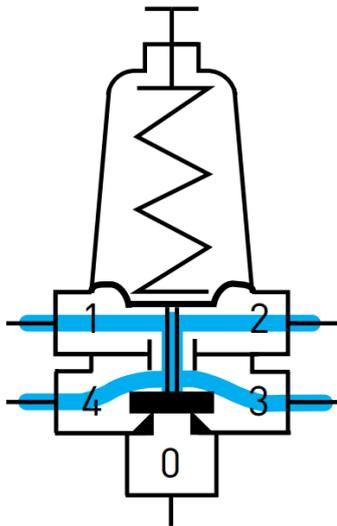
Part	Description
A	Non-tamper safety cap (Optional)
B	Adjusting screw
C	Locking nut
D	Calibration spring
E	Diaphragm
F	Body

Port	Connections
0	Downstream
1,2	Upstream
3	Plugged
4	Valve Control Chamber

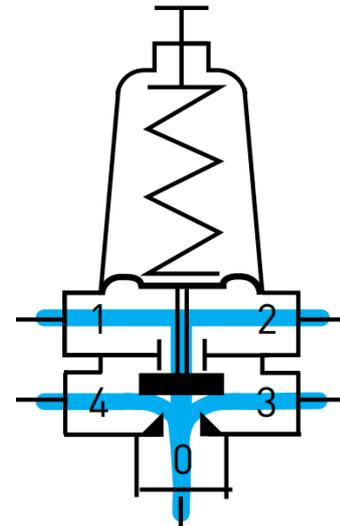


Operation:

Pressure Sustaining Pilot commands the valve to modulate open when upstream pressure rises above calibrated set point, relieving excessive line pressure.



Main Valve Closed
System pressure
lower than setting:
1,2 <--> 3,4 |<-->| 0



Main Valve Opens
System pressure
Higher than setting:
1,2 <--> 3,4 <--> 0