



SHARP 3-WAY MINI-PILOT

Model PC-SHARP-X-MP

SHARP is a sensitive and accurate diaphragm-operated mini-pilot. It is a multi-purpose 3-Way mini-pilot, based on a balance between the hydraulic force acting on the diaphragm, and the mechanical force of the calibration spring.

Features

- Universal Mini-Pilot
 - Serves as a Pressure Reducing Pilot, Pressure Sustaining Pilot, Flow Control Pilot [PC-XD-M] & Hydraulic Relay
- High Quality
 - All calibration springs made of Stainless Steel
- Accurate & Flexible
- Direct Pressure Gauge Installation

Typical Applications

- Pressure Reducing Valves
- Pressure Sustaining Valves
- Pressure Reducing & Sustaining Valves
- Flow Control (Pilot with Sealed Cover, full metal version: PC-XD-M)
- Hydraulic Relay

Technical Data

Pressure Rating: 16 bar

Water Temperature Range: 0-60 °C

Flow Factor:

Ports "0" to "3": Kv 0.2 Ports "3" to "2": Kv 0.16 Height (H): 180 mm Weight: 0.71 Kg Ports: "4" NPT

Standard Materials:

Body: Brass

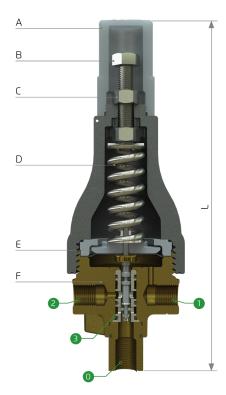
Cover: Polyamide 6 & 30% GF Diaphragm & Seals: NBR Internal Parts: Stainless Steel Spring: Stainless Steel

Adjustment Range:

Spring	Spring Color	Setting range	Material
K	Gray	0.5-3.0 bar	St. St. 302
N	Natural	0.8-6.5 bar	St. St. 302
V	Blue & White	1.0-10.0 bar	St. St. 302
Р	White	1.0-16.0 bar	St. St. 302

Standard spring - marked in bold





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

Port	Connections
0	Upstream: Pressure Reducing/Flow Control; Vent: Pressure Sustaining
1	Sensing
2	Vent: Pressure Reducing/Flow Control; Upstream: Pressure Sustaining
3	Valve Control Chamber

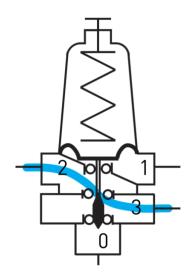
 $[\]mbox{*}$ Flow Control Pilot [PC-XD-M] include low pressure sensing port on the metal sealed cover

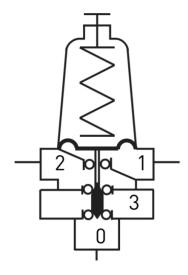


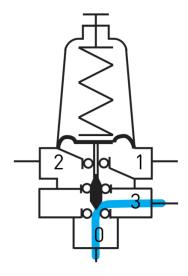
PC-SHARP-X-MP

Operation:

The SHARP Mini-Pilot sensing chamber is connected to the relevant pressure source according to application. The SHARP directs control pressure to & from valve control chamber, by opening and closing water passages (schematic drawing):







When sensed pressure lower than setting: 2<-->3 Modulating Open (PRV) Modulating Close (PSV) When sensed pressure equal to setting: 2|<-->|3|<-->|0 "locked position" all passages locked

When sensed pressure higher than setting: 0<-->3 Modulating Close (PRV) Modulating Open (PSV)

Ordering guide:

Cat. no.	Description
5004L1GK00	PC-SHARP-X-MP, W/SPRING "K" (0.5-3.0 bar) 3W-METAL MULTI PURPOSE PILOT VALVE, WITH PLASTIC COVER PN16
5004L1G200	PC-SHARP-X-MP, W/SPRING "N" (0.8-6.5 bar), 3W-METAL MULTI PURPOSE PILOT VALVE, WITH PLASTIC COVER PN16
5004L1G400	PC-SHARP-X-MP, W/SPRING "V" (1-10 bar), 3W-METAL MULTI PURPOSE PILOT VALVE, WITH PLASTIC COVER PN16
5004L1GP00	PC-SHARP-X-MP, W/SPRING "P" (1-16 bar), 3W-METAL MULTI PURPOSE PILOT VALVE, WITH PLASTIC COVER PN16

