BERMAD Irrigation

SHARP 3-Way Mini-Pilot

PC-SHARP-X

SHARP is the most sensitive and accurate mini-pilot in the market. It is a multi-purpose 3-Way mini-pilot, diaphragm-operated, based on a balance between the hydraulic force acting on the diaphragm, and the mechanical force of the calibration spring. The SHARP replaces the PC-X mini-pilot through all applications range.

Features and Benefits

- Universal Mini-Pilot: Serves as a pressure reducing pilot, pressure sustaining pilot, flow control Pilot [PC-XD] & hydraulic relay
- **Easy fit-in:** Connections are identical to PC-X & Servo (PC-S)mini-pilots, allowing easy & simple on-site upgrade
- High Quality: All calibration springs made of Stainless Steel
- Accurate & Flexible: Pressure setting range: 0.5-10bar; 8-145psi. Tolerance: < 2m; 3psi

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:

- When sensed pressure equal to setting: 2 | → |3 | → |0 "locked"
- When sensed pressure lower than setting: 2 3

Typical Applications

- Pressure Reducing Pressure Reducing & Sustaining
- Pressure Sustaining Flow Control (with Sealed Cover "D")
 - Hydraulic Relay

Technical Data

Pressures Rating: PN10 Temperature Resistance: Water up to 50°C; 122°F

Flow Factor: KV (@1 bar DP); CV (@1 psi DP)

Ports "0" to "3": 0.22m³/h; 0.25gpm Ports "3" to "2": 0.16m³/h; 0.18gpm

Construction Materials:

Plastic Cover: Polyamide (Nylon) 6 with 30% Glass Fiber Metal Cover: Brass Plastic Body: Polyamide (Nylon) 6 with 30% Glass Fiber

Metal Body: Brass

Elastomers: NBR

Internal Metal Parts: Stainless Steel

- Spring: Stainless Steel
- Ports: 1/8" NPT (Plastic Base) 1/4" (Metal Base)

Connections

0 - Upstream - Pressure Reducing/Flow Control; Vent: Pressure Sustaining

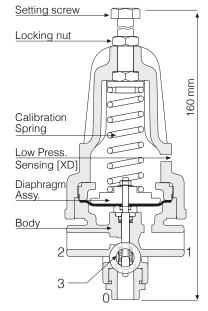
- 3 Valve Control Chamber
- 2 Vent: Pressure Reducing/Flow Control; Upstream: Pressure Sustaining
 1 Sensing
- **Cover –** Low Pressure Sensing: Flow Control (PC-XD)

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Mini-Pilot Valves





0.21kg; 0.46lb

Calibration range of springs

| Spring | Spring color | Setting Range |
|--------|--------------|------------------------|
| J | Green | 0.2-1.7bar; 3-25psi |
| K | Grey | 0.5-3.0bar; 8-44psi |
| N | Colorless | 0.8-6.5bar; 11-94psi |
| V | Blue-white | 1.0-10bar; 14-145psi |
| Р | White | 1.0-16.0bar; 14-230psi |

Ordering guide

| Description | Cat. no. |
|--|------------|
| SHARP Plastic with green spring J (0.2–1.7bar; 3-24psi) | 5008L1G500 |
| SHARP Plastic with grey spring K (0.5–3.0bar; 8-44psi) | 5008L1G200 |
| SHARP Plastic with colorless spring N (0.8–6.5bar; 11-94psi) | 5008L1G400 |
| SHARP Metal with blue-white spring V (1.0-16bar; 14-230psi), Plastic Cover | 5004L1G200 |
| SHARP Metal with colorless spring N (0.8 -6.5bar; 11-94psi), Plastic Cover | 5004L1G400 |
| SHARP Plastic, Sealed Cover "D", with green spring J (0.2–1.7bar; 3-24psi) | 5004L1G800 |

