Positioning 3-Way Pilot Valve, Metal

Model PC-X-M

This multi purpose, direct acting 3-way positioning pilot Valve is actuated by a pressure responsive diaphragm, which seeks to reach equilibrium between hydraulic and set spring forces.

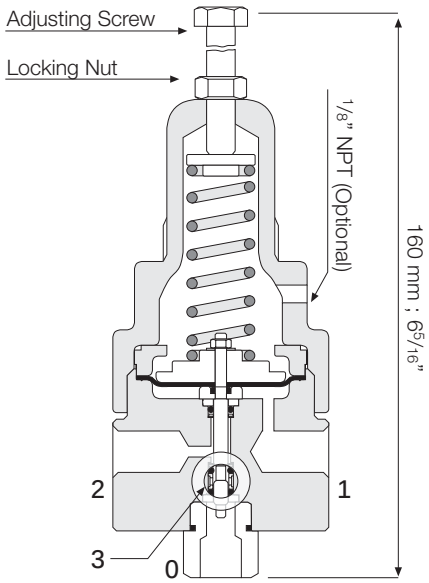
The pilot directs flow and pressure between its ports:
- When sensed pressure is above set point, it connects port “0” to “3”.
- When sensed pressure is equal to set point, it blocks connections between all ports.
- When sensed pressure is below set point, it connects port “3” with “2”. Relevant pressure is continuously sensed through port "1".

Typical Applications

- Pressure Reducing Valves (Type X) sizes 1½-6”
- Pressure Sustaining Valves (Type X) sizes 1½-6”
- Adjustable 3-Way Hydraulic Relay (N.O. or N.C.)
- Automatic Regulation Override (feature 09) sizes 1½-6”

Technical Data

Pressure Rating: 16 bar; 232 psi
Working Temperature: Water up to 80˚C; 180˚F
Flow Factor:
0 to 3: Kv 0.13 m³/h @ 1bar ΔP; Cv 0.15 GPM @ 1psi ΔP
3 to 2: Kv 0.08 m³/h @ 1bar ΔP; Cv 0.09 GPM @ 1psi ΔP
Standard Materials:
Body & cover: Brass
Elastomers: NBR
Internals: Stainless Steel & Brass
Spring: Galvanized Steel
Ports: ¼" NPT



Weight: 1.35 Kg; 3.0 lbs.

Adjustment Range

Spring	Pressure	
	bar	psi
G-Blue	1-10	15-145
H-Orange	1-7	15-100
N-Natural	0.8-6.5	11-95
K-Gray	0.5-3	7-40

Standard
Optional

Connections

0 - Upstream for reducing, Vent for sustaining
3 - Valve control chamber
2 - Vent for reducing, Upstream for sustaining
1 - Pressure Sensing

Positioning 3-Way Pilot Valve, Plastic

Model PC-X-P

This multi purpose, direct acting 3-way positioning pilot Valve is actuated by a pressure responsive diaphragm, which seeks to reach equilibrium between hydraulic and set spring forces.

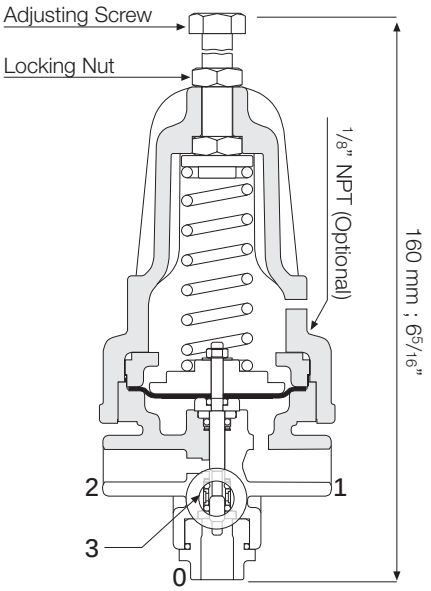
The pilot directs flow and pressure between its ports:
- When sensed pressure is above set point, it connects port “0” to “3”.
- When sensed pressure is equal to set point, it blocks connections between all ports.
- When sensed pressure is below set point, it connects port “3” with “2”.
  Relevant pressure is continuously sensed through port "1".

Typical Applications

- Pressure Reducing Valves (Type X) sizes 1½-4”
- Pressure Sustaining Valves (Type X) sizes 1½-4”
- Adjustable 3-way Hydraulic Relay (N.O. or N.C.)
- Automatic Regulation Override (feature 09) sizes 1½-4”

Technical Data

Pressure Rating: 10 bar; 145 psi
Working Temperature: Water up to 50°C; 122°F
Flow Factor:
0 to 3: Kv 0.13 m³/h @ 1bar ΔP; Cv 0.15 GPM @ 1psi ΔP
3 to 2: 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: Galvanized Steel
Ports: ⅛" NPT



Weight: 0.21Kg; 0.46 lbs.

Adjustment Range

Spring	Pressure		
	bar	psi	
H-Orange	1-7	15-100	Standard
N-Natural	0.8-6.5	11-95	Optional
K-Gray	0.5-3	7-40	

Connections

0 - Upstream for reducing, Vent for sustaining
3 - Valve control chamber
2 - Vent for reducing, Upstream for sustaining
1 - Pressure Sensing