

ELECTRIC VALVES

3-WAY PRESSURE CONTROL VALVE



The 3-way brass pilot has a unique diaphragm that enables precise pressure control on hydraulic valves.

TECHNICAL FEATURES

- Universal function (reducing, sustaining or relieving pressure)
- 3-way operating system
- Port connection: 1/4" BSP/ NPT female threaded
- 3-way pilot port: female threaded 1/4" - 19" BSP or 1/4" - 18" NPT
- 3 different pilot ports available with max. operating & pressure adjustment range
- Suitable for valve sizes 40 mm - 150 mm (1 1/2" - 6")

Identification of pilot	Adjustment (bar)	Max. operating pressure (bar)
Natural color spring	0.7 - 6.5	16
Blue color spring	1 - 10	20
Red color spring	1 - 16	20

BENEFITS

- Horizontal or vertical installation in the system
- Precise pressure control with very short reaction time
- Arrow and number markings assist in correct installation
- Minimal head loss due to its interior design

ADJUSTMENTS

- Standard pressure adjustment: 3 kg/cm²
- Desired set pressure is attained by adjusting with adjusting screw on the pilot.

PRESSURE SUSTAINING/RELIEF VALVE FUNCTIONS:

1. When the upstream pressure is lower than the desired set pressure (valve fully closed)
2. When the upstream pressure is equal to desired set pressure
3. When the upstream pressure position is higher than desired set position

APPLICATION

The pressure-sustaining valve is installed in-line, sustaining minimum back pressure, and preventing line emptying and pump overloading.

The pressure relief valve is installed off-line: when the line pressure rises above a desired set pressure, the valve opens to reduce excessive upstream pressure. The hydraulic valve is controlled by a 3-way pilot valve. The pilot valve has a spring-loaded diaphragm which is sensitive to upstream pressure.

The pilot valve maintains constant upstream pressure, regardless of flow variations. The valve is in closed position if the upstream pressure is lower than the desired set pressure; and is fully open when the upstream pressure exceeds the desired set pressure.