

3-Way Pressure Reducing Control Valve

Application

The brass hydraulic valve with brass pilot is best for general water supply system, irrigation, filtration network and systems subjected to sudden demand changes with medium pressure rating. The 3-way brass pilot with unique diaphragm, enables precise pressure control.



Description

The valve maintains a preset downstream pressure regardless of upstream pressure or flow fluctuations. The Hydraulic valve is controlled by a 3-way pilot valve. The pilot valve has a spring loaded diaphragm which is sensitive to downstream pressure. The pilot spring is preset to desired reduced pressure. The pilot valve maintains a constant downstream pressure by gradually opening and closing the hydraulic valve at any flow rate. When no flow exists in the system, it closes itself automatically.

Technical Specifications

- Inlet/ Outlet connection: 1", 1½" & 2" BSP/ NPT Female Threaded
- Hydraulic Valves Ports: 4nos.x Female threaded ¼" - 19 BSP or ¼" - 18NPT
- 3 Way Pilot Ports: 4nos. X Female threaded ¼"-19 BSP or ¼"-18NPT
- Operating Pressure Range/ Pressure Adjustment : 0.6 - 6 kg/cm² (8 - 85Psi)
- Pressure Rating: PN10
- Temperature Range: (with water) upto 60°C

Features

- It may be used horizontally or vertically in the system.
- Precise pressure Control with very less reaction time.
- Arrow & number marking for correct installation.
- Min. Head loss due to its inside design.

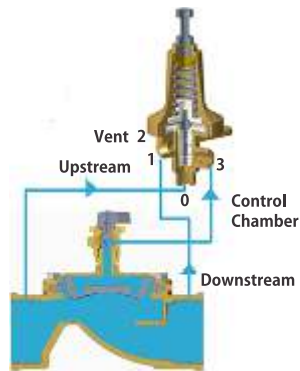
Adjustments

- Standard Pressure Adjustment from the factory: 3 kg/cm²
- Adjust the desired reduced set pressure with the adjusting screw on the pilot.

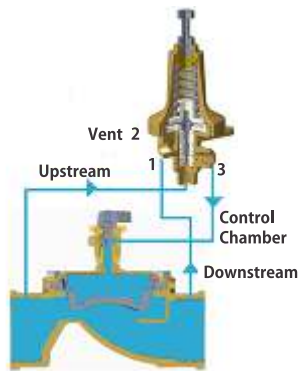
3-Way Pressure Reducing Control Valve

Pressure Reducing valve Functions

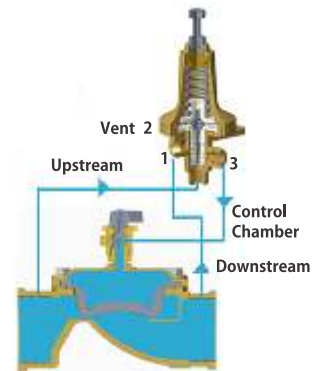
- When the downstream pressure is lower than the desired pressure: Valve Fully Open
- When the down Stream pressure is equal to desired set pressure.
- When the down stream pressure position is higher than desired set position.



Lower Pressure Position



Modulating Pressure Position



High Pressure Position

3-Way Pressure Sustaining/Relief Control Valve

Application

The brass hydraulic valve with brass pilot is best for the protection of most of the irrigation systems, filter manifolds protection, line fill-up control, domestic and industrial supply systems. The 3-way brass pilot with unique diaphragm, enables precise pressure control.



Description

- Pressure sustaining valve installed in-line, it sustain minimum back pressure, preventing line emptying and pump overloading.
- Pressure relief valve installed off-line, when 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 spring is preset to desired sustained pressure. The pilot valve maintains a constant upstream pressure regardless of flow variations. The valve will be in closed position, if upstream pressure below the desired set pressure, and fully open when the upstream pressure exceeds the desired set pressure.

Technical Specifications

- Inlet/ Outlet connection: 1", 1½" & 2" BSP/ NPT Female Threaded
- Hydraulic Valves Ports: 4nos.x Female threaded ¼" - 19 BSP or ¼" - 18NPT
- 3 Way Pilot Ports: 4nos. X Female threaded ¼" -19 BSP or ¼"-18NPT
- Operating Pressure Range/ Pressure Adjustment : 0.6 - 6 kg/cm² (8 - 85Psi)
- Pressure Rating: PN10
- Temperature Range: (with water) upto 60° C

Features

- It may be installed horizontally or vertically in the system.
- Precise pressure Control with very less reaction time.
- Arrow & number marking for correct installation.
- Min. Head loss due to its inside design.

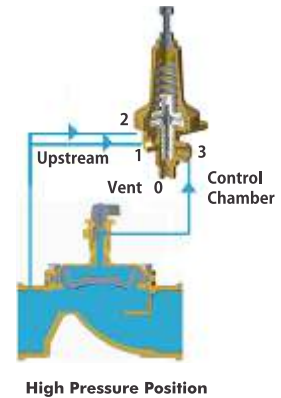
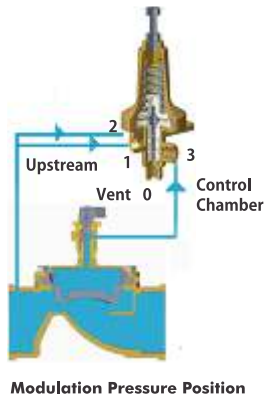
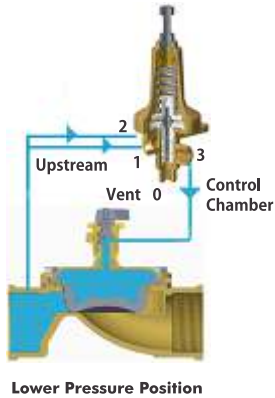
Adjustments

- Standard Pressure Adjustment from the factory: 3 kg/cm²
- Adjust the desired sustained set pressure with the adjusting screw on the pilot.

3-Way Pressure Sustaining/Relief Control Valve

Pressure Sustaining/Relief Valve Functions

- When the upstream pressure is lower than the desired set pressure: Valve fully closed.
- When the Upstream pressure is equal to desired set pressure.
- When the upstream pressure position is higher than desired set position.



Components & Accessories



Main Valve



Pilot Valve



3-Way Valve



1/8" x 8mm Elbow



1/4" x 8mm Elbow



1/4" End Plug



8mm PVC Tubing