Pressure Sustaining Valve
Mod. IN/IP-SP3PP

Hydraulic Function

The hydraulic valve mod. IN/IP-SP3PP is an automatic regulating valve that sustains the upstream pressure value. In case that the upstream pressure lowers the valve will close to mantain the upstream pressure.

Operation Principle

The valve is controlled by an hydraulic 3 ways pilot (mod.SP3PP) that regulate the degree of diaphragm opening accordingly to the upstream pressure value.
The pilot fill or discharge the valve chamber in order to mantain a minimum upstream pressure value, balancing the upstream pressure variations or flow changes.
The pilot can be adjusted to the desired pressure, within its limit of regulation range.
When the upstream pressure is equal or lower than the regulated pressure, the 3 ways hydraulic circuit determines the total closing of the valve.
When the upstream pressure raises over the minimum value the valve opens totally.

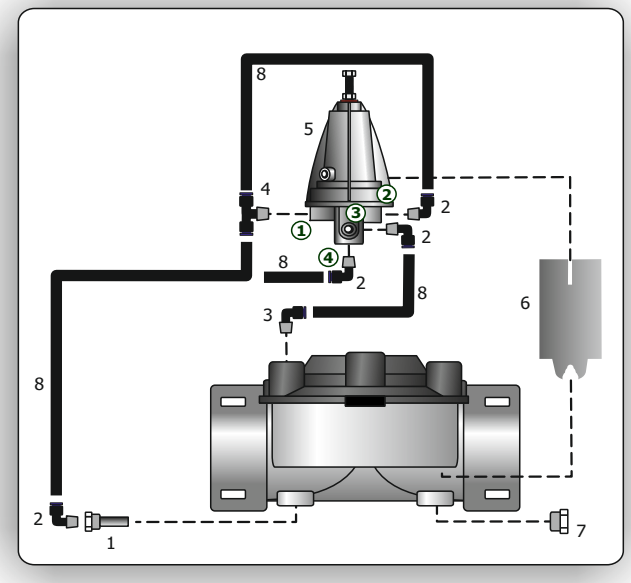
First Installation

- tighten until the limit the adjustment screw on the pilot.
- open the upstream pressure and fill the pipes with the desired minimum pressure, the valve will close and will remain closed.
- unscrew the adjustment screw progressively in order to decrease the upstream desired minimum pressure value. Stop when the valve starts to open.
- wait some minutes for the stabilization of the valve.
- check the upstream pressure with a pressure gauge. Reduce the upstream pressure in order to check that the valve start to close and mantains the desired minimum upstream pressure.
- remembre to wait for valve stabilization after each adjustment.
- once you reached the desired pressure block the adjustment screw using the locking nut.

Adjustments

The pilot adjustment screw allows to adjust the upstream pressure to a value that is within its regulation range (check Technical Characteristics).
Tightening the screw clockwise increases the regulated upstream pressure value. Unscrewing the screw counter-clockwise reduces the value of the pressure regulated, until the total opening of the valve.

Assembly Scheme



Accessories Features

Pressure Sustaining Pilot RP3PP PN10

Lower Body: reinforced nylon
Cover: reinforced nylon
Identification washer
Pressure regulation range:

Grey Spring	0,2÷1,5 bar
White Spring	0,6÷3,0 bar
Red Spring (Standard)	1,0÷5,5 bar
Black Spring	2,0÷9,0 bar

Optionals

Manual Handle CM4V

Body: brass
Sealing seat: teflon
Sphere: stainless stees
Cover connection: Ø1/4"M BSP
OPEN/CLOSE/AUTO: Ø1/8"F BSP

Reccomendations

- do not disassemble the valve or its circuit when the pipe is in pressure.
- do not use with pressures beyond Nominal values.

LEGEND:
1 - Filter Ø1/4"M-1/8"F
2 - Elbow Ø1/8"M pipe Ø 6 mm
3 - Elbow Ø1/4"M pipe Ø 6 mm
4 - Tee Ø1/8"M pipe Ø 6 mm
5 - Pressure Sustaining Pilot SP3PP
6 - Pilot stainless steel support
7 - Plug Ø1/4"M
8 - Micropipe HDPE Ø 6 mm

① - Sensor Port
② - Water Inlet
③ - Common
④ - Discharge

NOTES:
- fittings and micropipe Ø 8 mm for valves of Ø6" or superior.
- the technical characteristics can change without prior notice.