



Pressure Sustaining Valve Mod. IM-SP3PP

Hydraulic Function

The hydraulic valve mod. IM-SP3PP is an automatic regulating valve that sustains the upstream pressure value. In case that the upstream pressure lowers the valve will close to maintain 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 maintain 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.

The circuit has a 3 ways manual handle (mod. CM4V) that allows to totally open or close the valve apart from the presence of the regulating pilot.

First Installation

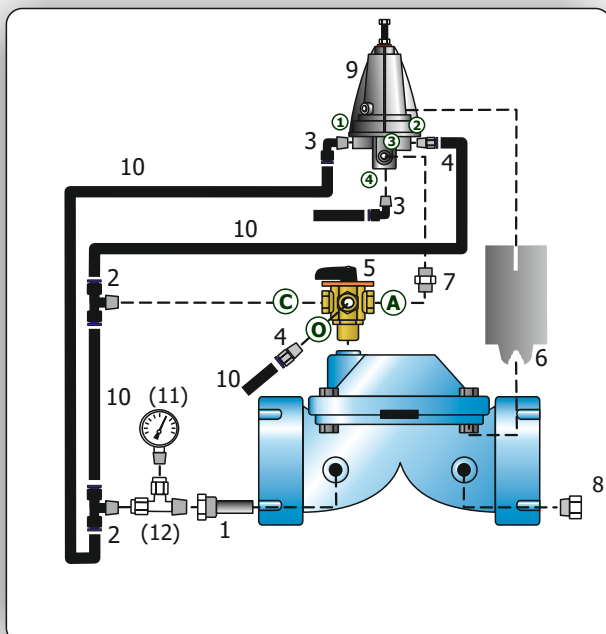
- tighten until the limit the adjustment screw on the pilot.
- open the upstream pressure and fill the pipes with the desired minimum pressure, the valve will close and will remain closed.
- unscrew the adjustment screw progressively in order to decrease the upstream desired minimum pressure value. Stop 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 maintains 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



Accessories Features

Pressure Sustaining Pilot SP3PP 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 1,0÷5,5 bar
(Standard)

Black Spring 2,0÷9,0 bar



Manual Handle CM4V

Body: brass

Sealing seat: teflon

Sphere: stainless stees

Cover connection: Ø1/4" M BSP

OPEN/CLOSE/AUTO: Ø1/8" F BSP



Availables options

Pilot SP3B

Body inferior: brass

Cover: brass

Class of pressure: PN 16

Ranks: like SP3PP



Caution

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

LEGEND:

- 1 - Filter Ø1/4" M-1/8" F
- 2 - Tee Ø1/8" M pipe Ø 6 mm
- 3 - Elbow Ø1/8" M pipe Ø 6 mm
- 4 - Straight Ø1/8" M pipe Ø 6 mm
- 5 - Manual handle CM4V
- 6 - Pilot stainless steel support
- 7 - Nipple Ø1/8" M-M
- 8 - Plug Ø1/4" M
- 9 - Pilot SP3PP
- 10 - Micropipe PEAD Ø 6 mm
- 11 - Pressure gauge (optional)
- 12 - Tee Ø1/8" M Ø1/8" F (optional)

- ① - Sense line © - Close
 ② - Discharge Ⓞ - Open
 ③ - Common Ⓐ - Auto (Automatic)
 ④ - Alimentation

NOTES:

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