



Pressure Reducing Valve Mod. IM-RP3PP

Hydraulic Function

The hydraulic valve mod. IM-RP3PP is an automatic regulating valve that allows to reduce the inlet pressure value to a lower predetermined and constant outlet value.

Operation Principle

The valve is controlled by a hydraulic 3 ways pilot (mod. RP3PP) that regulate the degree of diaphragm opening accordingly to the downstream pressure value.

The pilot fill or discharge the valve chamber in order to maintain the downstream pressure to a desired 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 inlet pressure is equal or lower than the regulated pressure, the 3 ways hydraulic circuit determines the total opening of the valve in order to limit the head loss.

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

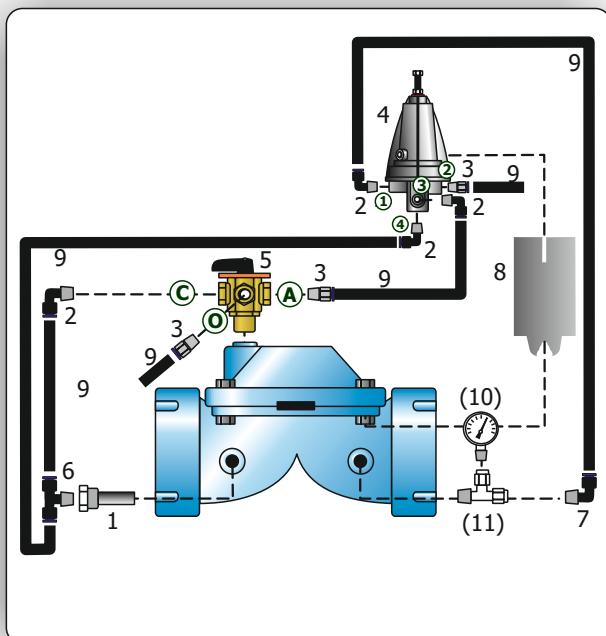
- unscrew totally the adjustment screw on the pilot.
- open the upstream pressure and fill the pipes, the valve will close and will remain closed.
- tighten the adjustment screw progressively in order to increase the downstream pressure value. By doing this the valve will open and will maintain a certain downstream pressure.
- wait some minutes for the stabilization of the valve.
- check the downstream pressure with a pressure gauge.
- continue to tighten the adjustment screw and check with the pressure gauge until you reach the desired downstream pressure.
- remember 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 downstream pressure to a value that is within its regulation range (check Technical Characteristics).

Tightening the screw clockwise increases the regulated downstream pressure value. Unscrewing the screw counter-clockwise reduces the value of the pressure regulated, until the total closing of the valve.

Assembly



Accessories Features

Pressure Reducing 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 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 RP3B

Body inferior: brass

Cover: brass

Class of pressure: PN 16

Ranks: like RP3PP



Caution

- not disassemble 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 - Elbow Ø1/8" M pipe Ø 6 mm
- 3 - Straight Ø1/8" M pipe Ø 6 mm
- 4 - Pilot RP3PP
- 5 - Manual handle CM4V
- 6 - Tee Ø1/8" M pipe Ø 6 mm
- 7 - Elbow Ø1/4" pipe Ø 6 mm
- 8 - Pilot stainless steel support
- 9 - Micropipe PEAD Ø 6 mm
- 10 - Pressure gauge (optional)
- 11 - Tee Ø1/4" M pipe Ø 6 mm (optional)

- ① - Sense line
- ② - Discharge
- ③ - Common
- ④ - Alimentación
- Ⓒ - Close
- Ⓓ - Open
- Ⓐ - Auto (Automatic)

NOTES:

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