



Hydraulic Valve

Mod. IN/IP-CM4V (Local)

Mod. IN/IP-SH (Remote)

Hydraulic Function

The hydraulic valves mod. IN/IP-CM4V and IN/IP-SH are on-off valves that allow to open and to close in the network without external power sources.

The difference between the models is only to have the possibility of local hydraulic control (CM4V) or remote hydraulic control (SH).

Operation Principle

The valve mod. IN/IP-CM4V is controlled by a special 4 ways valve (mod. CM4V) that allows the total diaphragm opening or closing.

This manual control valve is placed upon the cover in hydraulic connection with the valve chamber. A small handle allows to manually select 3 different options:

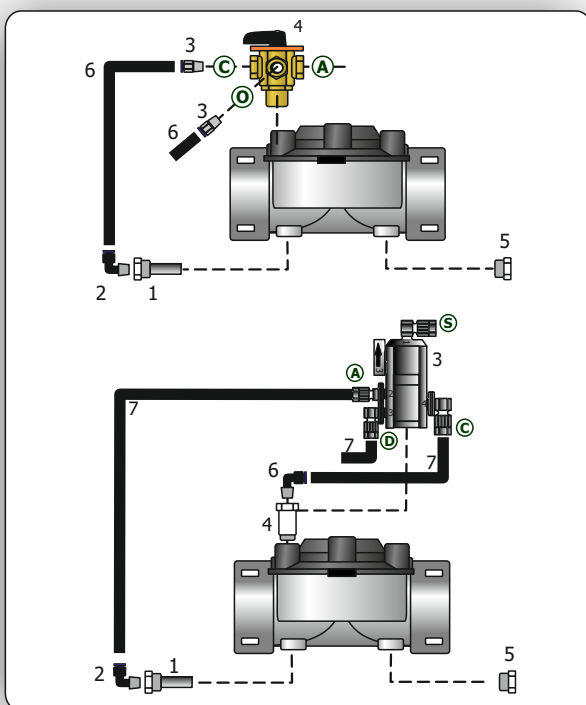
- **CLOSE:** it puts in connection the chamber with the inlet pressure closing totally the valve
- **OPEN:** it puts in connection the chamber with the external atmosphere discharging the water outside and opening totally the valve
- **AUTO:** this connection allows to equip the valve with hydraulic or electrohydraulic accessories for its automatic operation.

The valve mod. IN/IP-SH is controlled by a hydraulic relay (mod. SH) that allows the total diaphragm opening or closing. The hydraulic relay is placed upon the cover in connection with the valve chamber and it maintains it normally closed. Feeding the relay by an external line of pressurized water it is possible to cause the valve opening from remote stations. Cutting the pressure to the hydraulic relay control line, the valve returns to totally close. This special relay (mod. SH) have also a lever for local on-off control.

First Installation

Valves IN/IP-CM4V and IN/IP-SH do not require specific first installation operations, only needs to execute some opening and closing maneuvers in order to evacuate all the air from the control chamber.

Assembly Scheme



Accessories Features



Manual Handle CM4V

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



Accessories Features



Hydraulic Relay SH

Body: nylon
Diaphragm: NBR

Connections: micropipe Ø 8 mm

Recommenations

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

LEGEND (IN/IP-CM4V):

- | | |
|----------------------------------|----------------------|
| 1 - Filter Ø1/4" M-1/8" F | ⊙ - Close |
| 2 - Elbow Ø1/8" M tubo Ø 6 mm | ⊙ - Open |
| 3 - Straight Ø1/8" M pipe Ø 6 mm | ⊙ - Auto (Automatic) |
| 4 - Manual handle CM4V | |
| 5 - Plug Ø1/4" M | |
| 6 - Micropipe PEAD Ø 6 mm | |

LEGEND (IN/IP-SH):

- | | |
|-------------------------------|---------------------|
| 1 - Filter Ø1/4" M-1/8" F | Ⓐ - Water Inlet |
| 2 - Elbow Ø1/8" M tubo Ø 8 mm | ⊙ - Common |
| 3 - Hydraulic Relay | ⊙ - Discharge |
| 4 - Extension Ø1/4" M-Ø1/4" F | ⊙ - External Signal |
| 5 - Plug Ø1/4" M | |
| 6 - Elbow Ø1/4" M tubo Ø 8 mm | |
| 7 - Micropipe HDPE Ø 8 mm | |

NOTES:

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