



Modulating Float Control Valve Mod. IN/IP-GAL

Hydraulic Function

The hydraulic valve mod. IN/IP-GAL is an automatic control level valve, that assures to maintain a maximum level in a water tank.

Operation Principle

The valve mod. IN/IP-GAL is operated by a 2 ways horizontal float control pilot (mod.GAL) that determines the opening or the total closing of the valve accordingly on the filling level of the tank.

The float control pilot is placed within the tank, in correspondence of the required maximum level, while the valve is installed outside, in the pipe that fills the tank. The valve is connected hydraulically to the float control pilot by means of a micropipe of sufficient length. The float control pilot normally maintains the valve closed. When the level of the tank begins to lower, the float control pilot goes down and discharges the chamber, allowing to the valve to open itself progressively.

Once the tank is filled up again, the float control pilot returns to his horizontal position totally closing the valve.

The valve closing is slow and progressive in order to not generate dangerous pressure peaks in the pipe. The closing speed is regulated by a needle valve, adjusted in factory and sealed.

The valve mod. IN/IP-GAL must be installed following these limits:

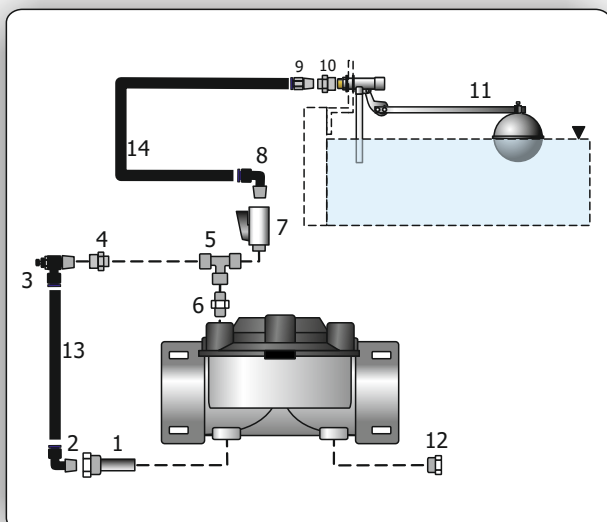
- 15 meters must be the maximum distance between float control pilot and valve body .
- 10 meters must be the maximum altitude between valve body and highest water level.
- downstream pressure must be superior to 1/3 of the upstream pressure.

Consult the manufacturer for installations outside these limits.

First Installation

- place the float control pilot in the reservoir or in the tank in correspondence of the wished maximum level and with the lever in horizontal position.
- connect the floatcontrol pilot to the valve control circuit with pipe of suitable diameter making sure its watertightness.
- open the ball valve and give pressure to the main pipe.

Assembly Scheme



Accessories Features

Float Control Pilot GAL 1/2"



Type: 2 way - modulating
Installation: horizontal
Body: brass
Lever: stainless steel
Floater: polypropylene PP
Connections: Ø1/2" F BSP
Nominal Pressure: 16 bar

Optionals

Float control Pilot GAL 3/4"



Type: 2 way - modulating
Installation: horizontal
Body: brass
Lever: stainless steel
Floater: polypropylene PP
Connection: Ø3/4" F BSP
Nominal Pressure: 16 bar

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 - Needle Valve Ø1/8"M tubo Ø 6 mm
- 4 - Reduction Ø1/8"F-Ø1/4"M
- 5 - Tee Ø1/4"F-Ø1/4"F-Ø1/4"F
- 6 - Nipple Ø1/4"M
- 7 - Ball Valve Ø1/4"M-Ø1/4"F
- 8 - Elbow Ø1/4"M pipe Ø 8 mm
- 9 - Straight Ø1/4"M pipe Ø 8 mm
- 10 - Coupling Ø1/2"F-Ø1/4"F
- 11 - Modulating Float Control Pilot GAL Ø1/2"M
- 12 - Plug Ø1/4"M
- 13 - Micropipe HDPE Ø 6 mm
- 14 - 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.