# Differential float valve
# Mod. IM-GAD1 (Horizontal)
# Mod. IM-GAD2 (Vertical)

## Hydraulic function

The hydraulic valve mod. IM-GAD is an automatic control level valve, that allows to maintain the level of a water tank between setted maximum and minimum value.

## Operation principle

The valve mod. IM-GAD operates using a 3 ways horizontal floater (mod.GAD1 or mod.GAD2) that causes the opening or the total closing of the valve accordingly on the filling level of the tank.
The floater is placed within the deposit, in correspondence of the required maximum level, while the valve it is settled to its outside, in the entrance pipe, and it connects itself hydraulically to the floater by means of two pipes of sufficient length. The floater normally maintains the valve closed. When the level of the tank begins to fall, the floating moves down progressively maintaining the valve closed. When the water arrives at the minimum level, the floater opens the discharging way allowing to the valve to open totally and to fill the tank.
Once the deposit it is filled up again, the floater returns to his horizontal position causing the total closing of the valve.
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.
The valve IM-GAD installation must concern the following limit functional:

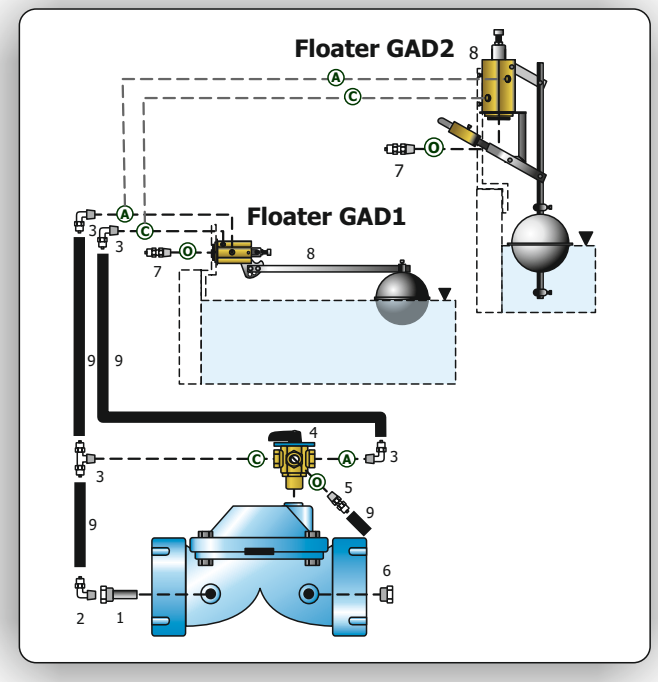
- 15 meters maximum distance between floater and body valve
- 10 meters maximum drop between valve and high level
- pressure when coming out must be superior to 1/3 of the inlet pressure.

Consult the manufacturer for installations outside the limit indicated.

## First installation

- place the floater in the tank in correspondence of the wished maximum level, with the On guard horizontal piston rod, and regulate the position of the sphere accordingly the required minimum level
- connect the floater to the valve circuit with pipes of suitable diameter making sure its watertightness
- position the hand control in "AUTO" and give pressure to the main pipe
- operate some maneuvers of opening and closing using the manual handle to evacuate all the present air in the chamber.

## Assembly scheme




## Accessories characteristic

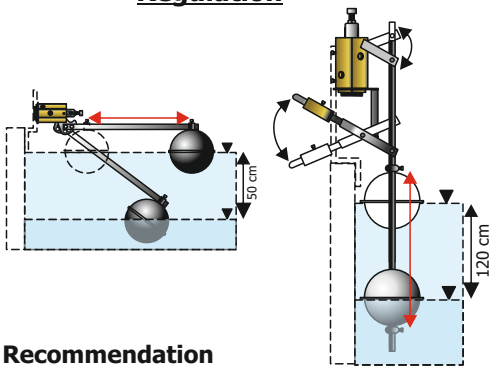
### Floater GAD1

Type: 3 ways - differential
Rank: 0 ÷ 0.5 meters
Installation: horizontal
Body: brass
Piston rod: stainless steel
Sphere: polypropylene PP
Connections: Ø1/8" F BSP
Nominal Pressure: 16 bar

### Floater GAD2

Type: 3 ways - differential
Rank: 0 ÷ 1.2 meters
Installation: horizontal
Body: brass
Piston rod: stainless steel
Sphere: polypropylene PP
Connections: Ø1/8" F BSP
Nominal Pressure: 16 bar

## Regulation




## Recommendation

- 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"H
2 - Elbow Ø1/8"M pipe Ø 6 mm
3 - Tee Ø1/8"M pipe Ø 6 mm
4 - Manual handlel CM4V
5 - Straight Ø1/8"M pipe Ø 6 mm
6 - Plug Ø1/4"M
7 - Straight Ø1/4"M pipe Ø 6 mm
8 - Floater GAD1
9 - Micropipe PEAD Ø 6 mm

Ⓒ - 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.