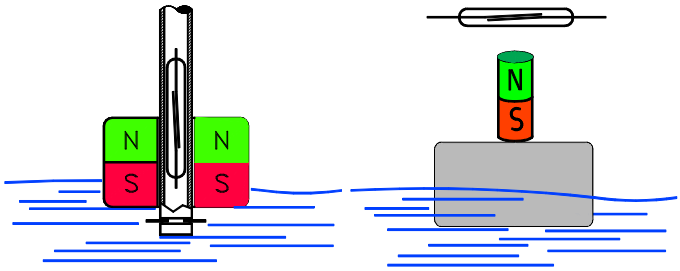
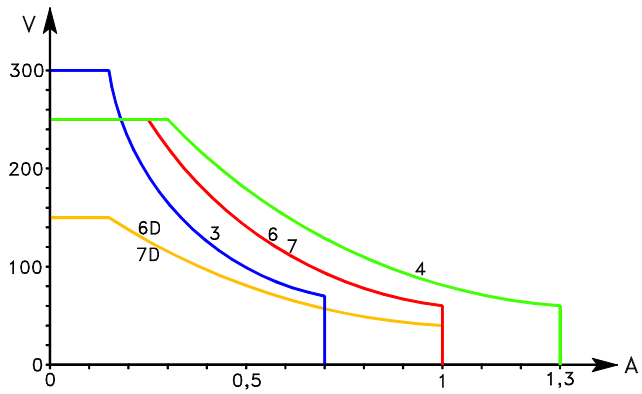
TECHNOLOGY



Float

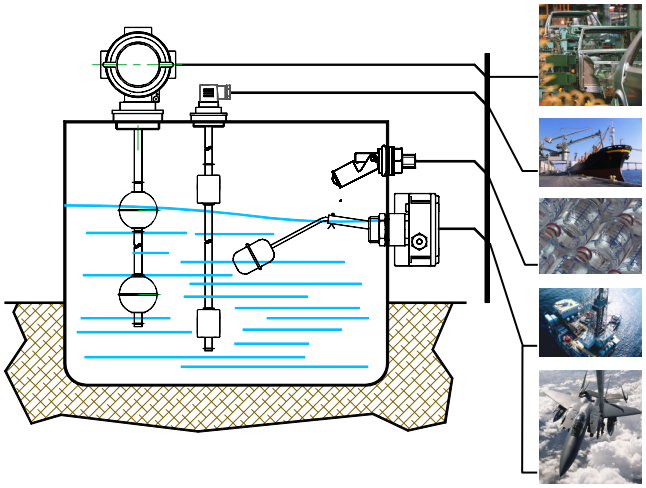
A float, equipped with one or more magnets, driven by a shaft, follows the variation of the liquid level up to actuate an electrical contact positioned and sealed inside of the guide rod.



Electrical contact

These contacts are made by two little plates of rhodium (material with high thermal characteristics and hardness), sealed in a glass case which prevent the oxidation. The contact resistance, very low and stable over time, allows a high number of mechanical and electrical operations.
The reed contacts are able to perform up to 500 million operations in relation to the electric load used. To take full advantage of the technical characteristics of the reed contacts they must be used within the specified maximum working limits. The chart shows the maximum switchable current as a function of applied voltage, for purely resistive loads.

FIELDS OF APPLICATION

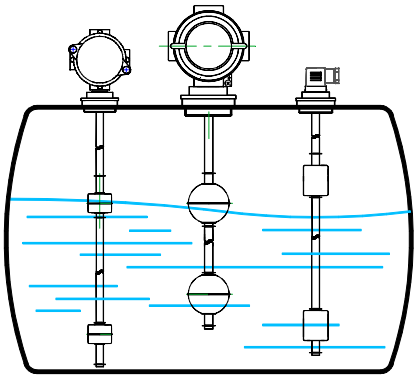


- Monitoring of liquid levels in storage tanks.
- Activation of audible or visible alarms.
- Starting and stopping pumps.
- Dosing and mixing.
- Checking of fuel for diesel engines.
- Centralized lubrication plants.
- Control of drinking water and fuel on boats.
- Brewing and beverage.
- Galvanic industry.
- Water treatment plants.

ADVANTAGES

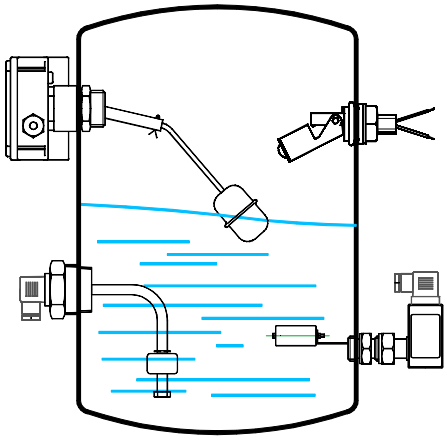
- Simple structure devices.
- Sizing of the instrument to individual needs.
- Long service life.
- Low maintenance.
- The electric unit is sealed and replaceable.

SYSTEM DESCRIPTION



Vertical installation

The level control, with the dimension and number of contacts required, is mounted vertically in the tank and secured by means of the process connection, threaded or flanged. The change of the liquid level moves the float which actuates the reed contact, housed and sealed inside the guide rod, activating the signal corresponding to the set level.



Horizontal installation

In case of horizontal mounting level control is installed on the wall of the tank at the height of the level to be monitored.
In this way can be monitored more levels, by installing a proper number of level switches. The level control can operate as a device with contact NC or NO, as a function of the position of installation.

TECHNICAL DATA

Concept	Magnetic float
Process connection	1/8" ÷ 2" DN25 ÷ DN125
Type of connection	Threaded Flanged
PN	PN3 ÷ PN50
Max. temperature	180 °C
Output signal	Electrical contact NC – NO – SPDT
Switch points	Fixed to the customer's specific
Materials	Brass - Stainless Steel - PVC - PVDF

CONSTRUCTION TYPE

■ **IP65 protection**
Cable output - DIN 43650A plug output
Cast aluminum housing epoxy painted.

■ **ATEX II 1/2G Exd IIC T5/T6**
Cast aluminum housing epoxy painted.

■ **ATEX II 1/2G Exia IIC T4/T5/T6**
Cable output - DIN 43650A plug output
Cast aluminum housing epoxy painted.

■ **IP65 protection - Fire prevention MI.SA**
Cast aluminum housing epoxy painted.