

Level switch

PO - SG291



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The PO SG291 level switch is an exceptionally simple and robust instrument, designed to identify, with great precision and reliability, well-defined level values, generally high, very high and low.

The instrument is composed of a stainless steel well, along with the floats flow with a special magnet drowned that provides to switching internal contacts.

A terminal board located at the top of the instrument allows you to easily carry out the wiring of the connection line between the storage tank and the pump room or the back panel.

The SG291 available contacts are mostly used by the plant control system to perform operation of: pump interlocking, valve closing and acoustic optical warning of reaching the threshold level.

Reliable operation even in the presence of sensitive liquid turbulence or foam.

Double flange execution for intruding the sectioning valve (Ministerial Decree No. 142 dated 13.10.1994).

It doesn't require any certification since the switching elements are considered "simple apparatus" in terms of safety.

Each instrument is made to customer specifications, based on the size of the tank and the required threshold points. Each tube is subjected to hydraulic test at a double pressure compared to the maximum operating pressure of the tank, typically 50bar for 30 minutes.

# Main technical features

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### Materials

Body:	AISI 316L - 304L length based on customer requests
Head:	Aluminum alloy with anticorrosive treatment
Operating temperature:	-40...+70°C
Operating pressure:	Max 25bar
Fluid density:	Minimum 400g/l

### Connections

Process connection:	Flanged 2" ANSI 300 RF/DN 50 PN40 (other size on request).
Adjustement:	-100...+250mm before the final positioning of the float stoppers. Unshielded, single or pairs conductor, flexible, with minimum isolation of 600V.
Cable type:	1 cable entry 1/2" GK or cable gland with a maximum diameter of 12mm.
Electrical connection:	
Connections:	Flexible copper conductors, section $\leq 1,5\text{mm}^2$ .
Standard accessories:	Accessori standard: Active barrier with intrinsic safety with single or double channel.

### Accuracy

Precision:	+/- 1mm
Sensibility:	1mm
Ripeatability:	1mm
Hysteresis:	+/- 1,5mm



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