

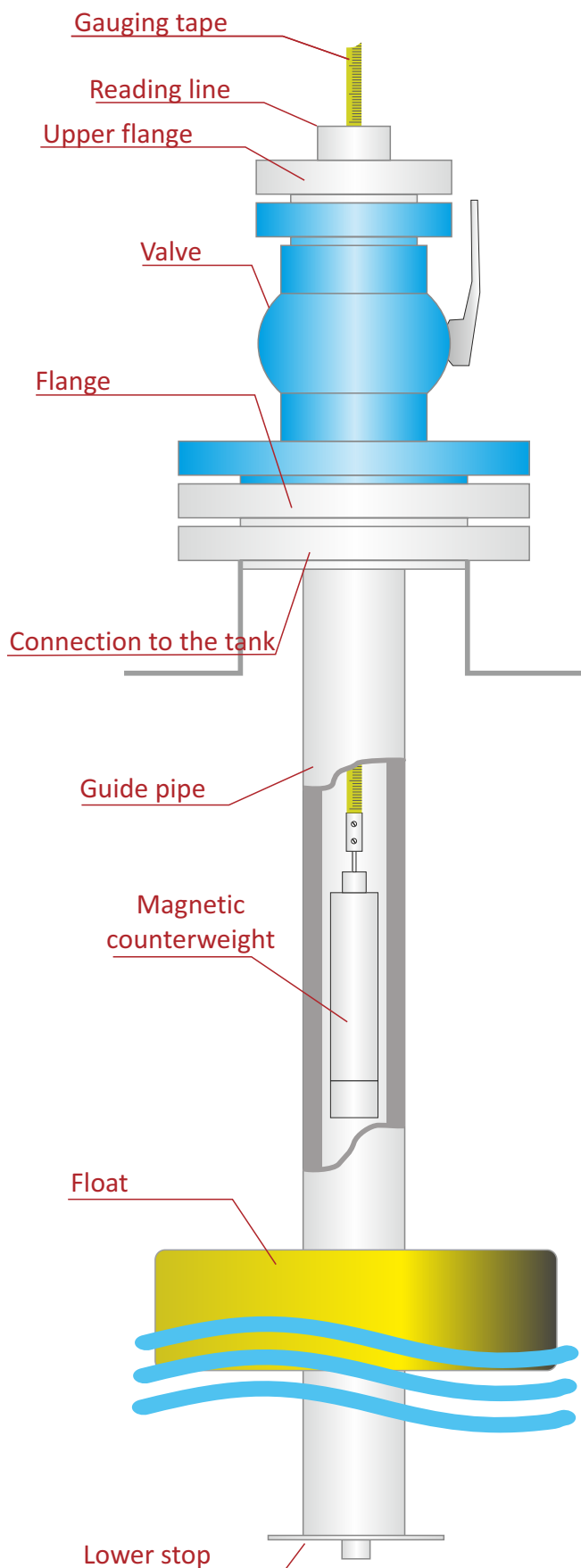
Manual level meter

PALO - SG295



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INTRODUCTION

La misurazione manuale del livello di tipo indiretto, carried out with the PALO SG295 system, allows to sufficiently detect the level of liquid present in storage tanks containing pressurized or cryogenic fluids.

PRINCIPLE OF OPERATING

It is essentially based on an unsinkable annular float that runs vertically along a AISI 316 tube, closed on the bottom, at establish a real element of separation between the tank and its interior, constantly at atmospheric pressure.

A special magnet with very high flow is drowned in the float and allo The height of the liquid can be read on the reading line constituted by the upper wire of the closing flange.

COMPONENTS

GUIDE PIPE in stainless steel 1" AISI 304L or 316L, 80S schedule without welding, cold drawn.

FLANGE to the tank, also in stainless material, dpuble-sided to allow the seal towards the interception valve. Normally the applications are 2-3-4" UNI or ASA series.

BALL VALVE intercepted according to the M.D. dated 13.10.1994 (interception valves), completely non-magnetic in stainless steel with full passage UNI or ASA series depending on the flanging.

UPPER FLANGE also in stainless material, incorporates a piece of threaded at the end with the function of a reading line for reading the level on the graduated tape.

CLOSING CAP in knurled and threaded brass, complete with gasket, vent valve and pressure gauge. (not represented)

Any drilling of the latter, however, detected by the pressure gauge, would inexorably put the system out of service.

At the end of the operations verify the presence and integrity of the seal.

FLOAT with closed cells in PVC able to withstand operating pressures of 25 bar and any hydraulic test up to 40 bar.

It is exclusive to SEGI and incorporates a SaCo magnetic ring with exceptional stability characteristics combined with very high flow.

The complex is totally unsinkable even for damage to its structure due to its very low specific weight (from 0.25 to 0.40 Kg / liter) and is available with diameters of 130mm or 300mm according to specific needs.

The particular geometric shape ensures good measurement accuracy even for considerable variations in the density of the fluid to be measured.

Safety LOWER STOP, consisting of a stainless steel disk fixed to the bottom of the guide pipe with M8 screw and anti-yellowing grower washer. For lengths greater than 3000mm, a lower seat must be provided fixed to the tank structure (perforated plate or glass)

GAUGING TAPE millimetric stainless steel, is supplied with the system and its length is clearly a function of the measuring range. The graduated tape is inverted to allow direct reading of the full.

It is customized directly by our technicians during assembly and / or commissioning of the system.

MAGNETIC COUNTERWEIGHT in nickel-plated brass hooked to the rib and containing a packet of magnets, it is lowered inside the guide pipe hanging on the rib and goes magnetically hooked to the float.

Main technical features

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Materials

Body:	AISI 316L - 304L length based on customer requests
Operating temperature:	-40...+70°C
Operating pressure:	Max 25bar
Fluid density:	Minimum 400g/l
Float:	Spansil® with closed cells or in PVC

Connections

Process connection:	To be defined according to customer requests, typically from 2" to 4" series UNI or ASA series
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Accuracy

Precision:	+/- 5mm
Sensibility:	2mm
Ripeatability:	2mm
Hysteresis	+/- 2mm



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