Quality Management System, Environment and Safety



SPG SERIES



Tank gauges SPG series are available with stainless steel wetted parts for all liquid applications compatible with AISI 316 stainless steel.

Special materials as Titanium or HC276 can be considered.

Mounting of the sensor, internally or externally of the tank, practically installation meet existing requirements.

The SPG Self Powered Gauges have been designed for Marine and Industrial applications. They are completely autonomous and provide remote continuous indication of tank contents without using any external energy.

Indicators are of stainless-steel construction. Calibration in unit of volume and/or depth of liquid.

Each scale is individually calibrated and printed on dial.

APPLICATION FIELDS & FEATURES

- Marine Certification (RINA)
- ATEX certification
- Standard EN-837-3
- Sea water, Oil and Chemical Resistant
- Submersible or externally mounted sensor



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TECHNICAL FEATURES

General Features

Indicator Nominal Diameter:

DN 100
DN 150

Capillary Length: Up to 30 m

Calibration: According to customer specified head or volume units and tank reference (Standard m³)

Measurement Performance

Accuracy: Class 1 (*)

Error introduced by diaphragm seal and capillary: <±1,5% FS @ +25°C

System accuracy (0 \div 60 °C): < $\pm 2\%$ FS (**)

Overload: 150 % FS

Notes

(*) Typical at standard conditions between 10% and 90% FS @ 25 °C

(**) Accuracy related to a 30 meters capillary instrument

ENVIRONMENTAL FEATURES

Environmental Conditions

Working temperature limits:

Process: -20 ÷ 130 °C

Ambient: 0 ÷ 60 °C

Ingress protection degree:

Sensor: IP68 @ 30 mH20
Indicator: IP65

Indicator: IP65

APPROVALS

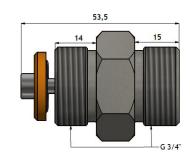
Type Approvals

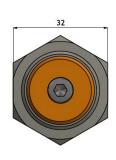
Directive 2014/34/EU (ATEX)

Marine type approval

In compliance with applicable requirements of RINA type approval system

DRY BREAK VALVE 34" BSP





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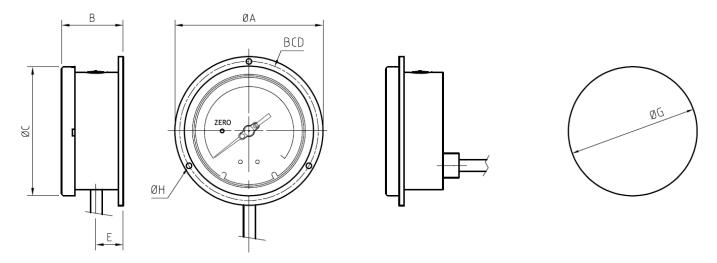
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DIMENSIONAL DRAWINGS

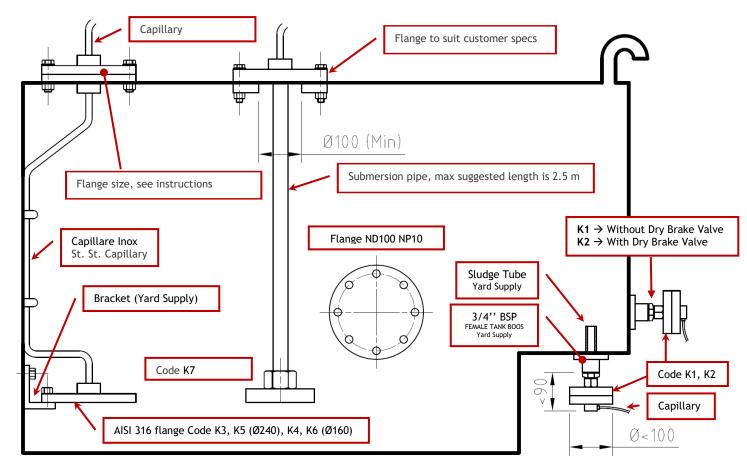


Wall Mounting

Flush Mounting

Panel Cut Out

DN	ØA	В	ØC	E	ØG	ØH	BCD
100	127	55	113	16	100	6	116
150	190	59	163	16	150	6	175



Typical sensor installation

VAT IT07848810151

Rev. 3



Quality Management System, Environment and Safety

ORDERING CODE

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01	Indicator

- 301 Ø150 mm SS wall mounting (Back Flange)
- 302 Ø150 mm SS panel mounting (Front Flange)
- 303 Ø100 mm SS wall mounting (Back Flange)
- 304 Ø100 mm SS panel mounting (Front Flange)
- **Z99** Special

02 Process connections

- K1 SS type 316 connection and all wetted parts, 34" BSP female running nut without Dry Break Valve
- K2 SS type 316 connection and all wetted parts, 34" BSP female running nut with Dry Break Valve
- K3 St.st.316 submersible Ø240 mm flanged sensor and bulkhead AISI 304 rectangular flange
- K4 St.st.316 submersible Ø160 mm flanged sensor and bulkhead AISI 304 rectangular flange
- K5 St.st.316 submersible Ø240 mm flanged sensor and bulkhead rectangular flange and protection guard in SS AISI 304
- K6 St.st.316 submersible Ø160 mm flanged sensor and bulkhead rectangular flange and protection guard in SS AISI 304
- **K7** SS AISI 316 submersible sensor with pipe L_{MAX} =2.5 m and flange
- **Z9** Special

03a Capillary length

11_ Copper capillary + SS AISI 304 sheath	1 1.9 m
12_ Copper capillary + SS AISI 304 sheath	2 4.9 m
13_ Copper capillary + SS AISI 304 sheath	5 9.9 m
14_ Copper capillary + SS AISI 304 sheath	10 20 m
21_ SS AISI 304 capillary + SS AISI 304 sheath	1 1.9 m
22_ SS AISI 304 capillary + SS AISI 304 sheath	2 4.9 m
23_ SS AISI 304 capillary + SS AISI 304 sheath	5 9.9 m
24_ SS AISI 304 capillary + SS AISI 304 sheath	10 19.9 m
25_ SS AISI 304 capillary + SS AISI 304 sheath	20 30 m
Z9_ On request	

03b Measuring range

- _A Nominal measuring range (mH2O) 0÷1
- _B Nominal measuring range (mH2O) 0÷1,6
- _C Nominal measuring range (mH2O) 0÷2,5
- _D Nominal measuring range (mH2O) 0÷4
- _E Nominal measuring range (mH2O) 0÷6
- _F Nominal measuring range (mH2O) 0÷10
- 9 On Request

04 Options and accessories

- 01 Test certificate according to EN 10204
- **02** AG transcription
- 03 Calibration report
- 04 RINA type approval
- 05 Other type approval
- 06 ATEX certificate
- ⟨Ex⟩ II 2 GDC TX 07 Size ¾'' isolation valve (TIV) for codes K1 & K2.
- **08** Single scale (Volume \rightarrow m³ or liters)
- **09** Double scale (Volume + H \rightarrow m3 or liters + m)
- **10** Dry display
- **Z9** On Request