

Magnetic Level Gauge PN 250/CL 1500

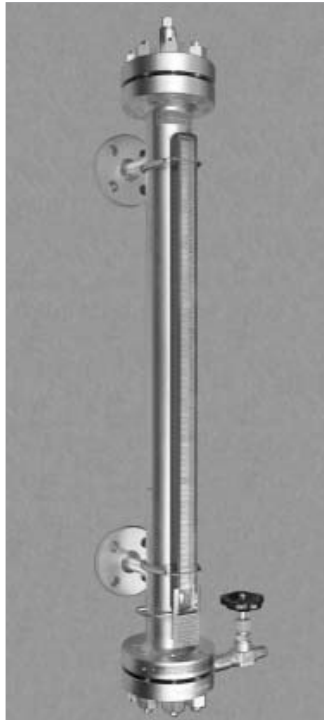
Magnetic indicating bar scale with fine resolution, indirect level indication
 Indicating elements permanent magnetic with stop pin
 Fully closed housing with gapless weldings
 Float magnet field totally circular with strong far field
 Float defect control with indication in lower display end

Product group **710**

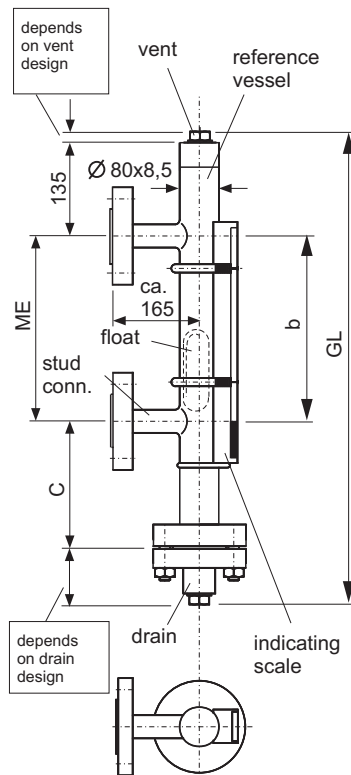
Type **140.0**

Sheet: 1/2 Revision: 11

Date: 09/09



Type 120.0 e. g. equipped with drain valve sideways, indicating scale type 710.AVG3 and top flange



Field of Application

The magnetic level gauge is for indicating the level height or interface of liquids in any vessel via bypass. Simultaneously you can use level switches (s. 740.XXXX) or level sensors (s. 745.XXXX) mounted onto the reference vessel tube to signal level limits or measure the level height by remote means.

General Data

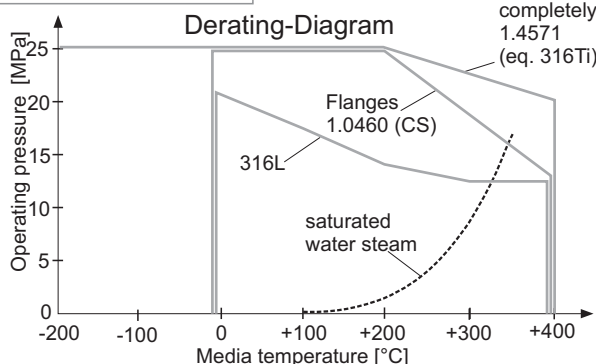
Density: form $0,51 \text{ g/cm}^3$
 Precision for Interface or density: from $\pm 0,1 \text{ g/cm}^3$
 Measuring range (=ME): to 5000 mm, above split construction, from 3000 mm holding bracket each 1500 mm
 Measuring error: $\pm 10 \text{ mm}$
 Viscosity: max 5000 mPas
 Display type: 710.AVG3
 Connection: weld end or Flanges DIN and ANSI plug 1/2" NPT/cap
 Drain/Vent: optional 3/4" NPT, G1/2A, G3/4A, Flange stud DIN and ANSI Valve ND8, optional ND6, and acc. to customer spec.
 Material tube, stud, flanges, fixtures: SS 1.4571 (eq. 316Ti), optional, Hastelloy, Titanium etc., DIN + ANSI-materials
 Float: Titanium
 Weight: Basic 32,5 kg + 1,508 kg/100mm ME

Design Data

Operating pressure: up to 25 MPa/1500 lbs (see Derating-Diagram)
 Temperature Media
 Reference vessel compl. 1.4571: $-200 \dots +400 \text{ }^\circ\text{C}$
 flanges 1.0460: $-10 \dots +400 \text{ }^\circ\text{C}$ (see Derating-Diagram)
 Below $-10 \text{ }^\circ\text{C}$ Indicating scale 710.AVG2
 below $-20 \text{ }^\circ\text{C}$ add frost protection with 710.ISOL
 In both cases preparation for insulation included

Certificates

Pressure equipment directive (PED) 97/23/EG
 EC-Type Examination Certificate: TÜV 03 ATEX 2190
 Zone 0
 Subject to alterations



Ordering no.

7 1 0 . 1 4 0 . 0 - XXX - XXXX - XXXXXXXX

Density, e.g. $057=0,57 \text{ g/cm}^3$

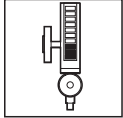
Center to center ME in mm

Connections etc. see data sheet 710.VAR

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Details

Float, Vent, Drain and Connection

Product group **710**

Type **140.0**

Sheet: 2/2

Revision: 11

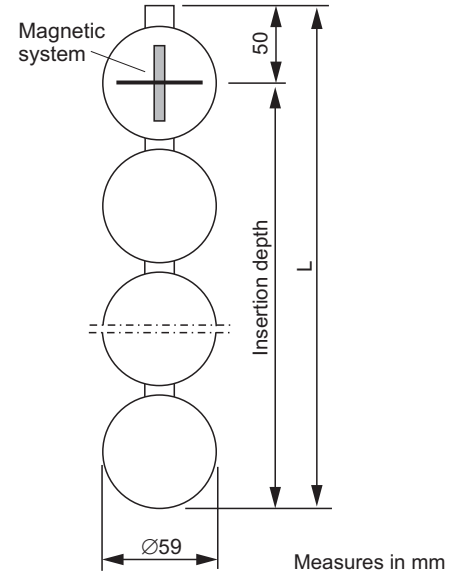
Date:

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Float material Titanium, Ø59, PN250

Density [g/cm ³]	Measure C [mm]	Total length L [mm]	Weight [g]	Part no.
0,75 ... 1,03	213	213	231	BG1001409103
0,65 ... 0,74	335	335	324	BG1001409074
0,58 ... 0,64	457	457	417	BG1001409064
0,54 ... 0,57	579	579	510	BG1001409057
0,51 ... 0,53	823	823	696	BG1001409053

Density range corresponds to measuring error ±10 mm

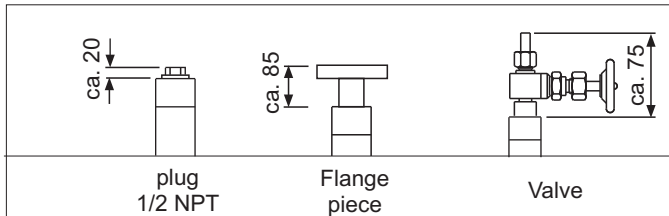


Design data Float

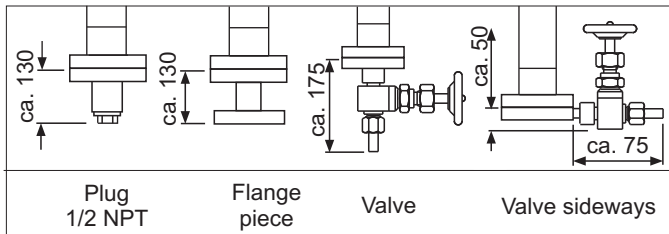
Operating pressure: up to 25,0 MPa/1500 lbs
(see Derating Diagram)
Test pressure (cold): 32,5 MPa
Operating temperature: -200 ... +400 °C
(see Derating Diagram)
Total length: see Float table

Subject to alterations

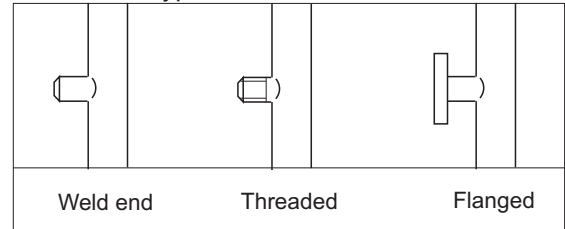
Vent



Drain



Connection types



Ordering no.

Accessories:

Device	Produktgruppe
Magnetic switch	740.XXXX
Level sensor	745.XXXX
Indicating scale	710.AVGX
Frost protection	710.PLEXI
Heating	710.HEAT

Spare parts:

Designation	Part no.
Float	s. Float table above
Indicating scale	710.AVGX
Sealing	1010079010NS
Fixing springs	3813000972
Align magnet	BG10XXXXMAKU

There may be any other customer specified connections, materials and special floats.

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