

## Magnetic Level Gauge PN160 / CL900

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**

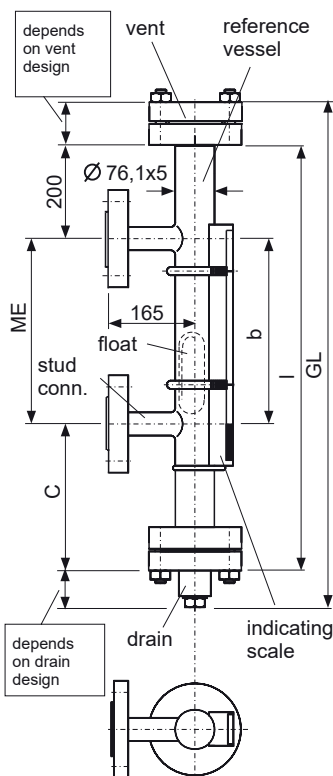
Type **130.0**

Sheet: 1/2 Revision: 7

Date: 04/22



Type 130.0 equipped with drain valve sideways and indicating scale type 710.AVG3.



### Field of Application

The magnetic level gauge is for indicating the level height 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, float 1.4571: special design  
 Titanium: from 0,51 g/cm<sup>3</sup>  
 Precision for Interface or density: from ±0,01 g/cm<sup>3</sup>  
 Measuring range (=ME): single piece up to 5000 mm, above split construction, from 3000 mm holding bracket each 1500 mm  
 Measuring error: ±10 mm  
 Viscosity: max 5000 mPas  
 Display type: 710.AVG3  
 Connection: weld end (Standard), Flanges DIN and ANSI  
 Drain/vent: Flange stud DIN and ANSI(Standard), plug 1/2" NPT, optional 3/4" NPT, G1/2A, G3/4A Valve DN8, optional DN6, Cap and acc. to customer spec.  
 Material tube, stud, 1.4571 (Standard), ANSI-coded  
 flanges, fixtures: Titanium, Hastelloy, etc.,  
 float: Titanium (Standard), 1.4571  
 Weight: Basic 30 kg + 1,2 kg/100mm ME

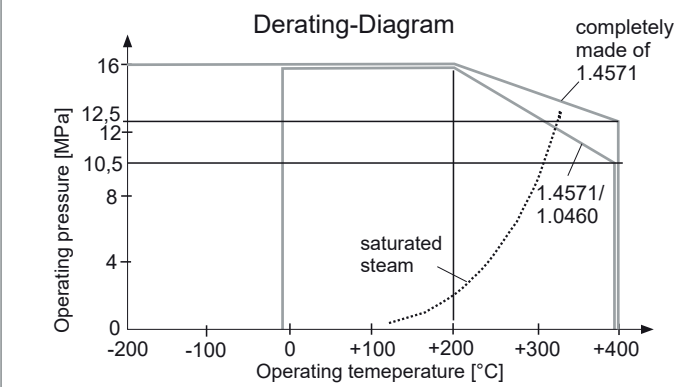
### Design Data

Operating pressure: up to PN160/CL900 (see Derating-Diagram)  
 Temperature Media:  
 Reference vessel cpl. 1.4571: -200 ... +400 °C  
 flanges 1.0460: -10 ... +400 °C (see Derating-Diagram)  
 Below -10 °C Indicating scale .AVG2 and below -20 °C add frost protection with 710.ISOL  
 In both cases preparation for insulation included.

### Certificates

PED 97/23/EG  
 ExNB ATEX 2190

Subject to alterations



Ordering no.

710.130.0 - XXX - XXXX - XXXXXXXX

Density, e.g. 057=0,57 g/cm<sup>3</sup>

Center to center ME in mm

Connections etc. see sheet 710.VAR

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## Details

Float, Vent, Drain and Connection

Product group **710**

Type **130.0**

Sheet: 2/2

Revision: 7

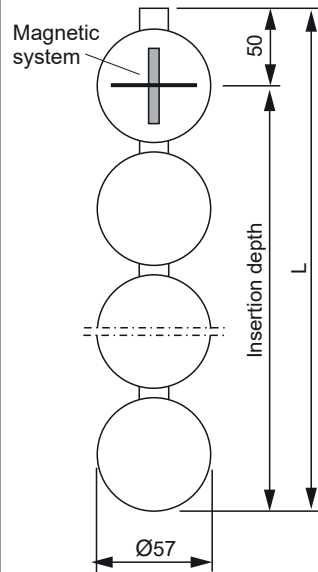
Date:

04/22

Float material Titanium, Ø57, PN160 / CL900

Density [g/cm <sup>3</sup> ]	Measure C [mm]	Total length L [mm]	Weight [g]	Part no.
0,75 ... 1,03	213	180	231	BG101409103
0,65 ... 0,74	335	300	324	BG101409074
0,58 ... 0,64	457	420	417	BG101409064
0,54 ... 0,57	579	540	510	BG101409057
0,51 ... 0,53	823	790	696	BG101409053

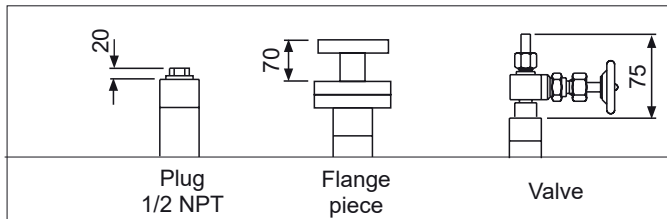
Density range corresponds to measuring error ±10 mm



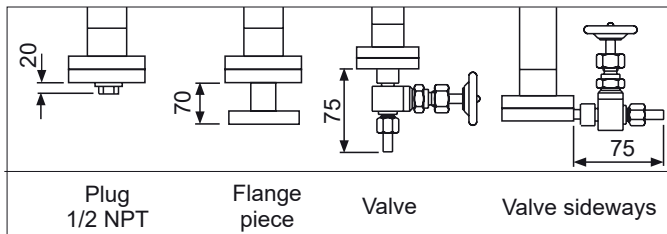
Measures in mm



### Vent



### Drain



### Design data Float

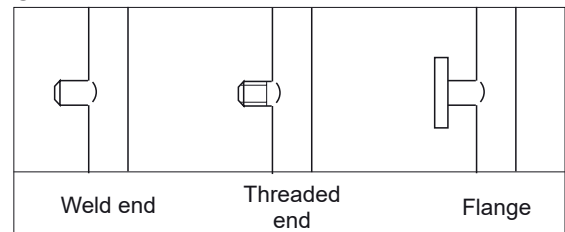
Operating pressure: up to PN160 / CL900  
(see Derating Diagram)

Test pressure (cold): 32,5 MPa

Operating temperature: -200 ... +400 °C  
(see Derating Diagram)

Total length: see Float table

### Connections



### Ordering no.

#### Accessories:

Device	Product group
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	0790101010PS
Fixing springs	3813000772
Align magnet	BG10XXXXMAKU

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

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