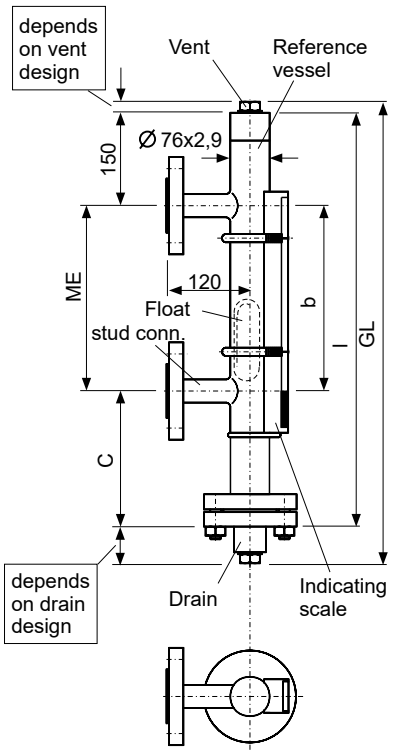
PHÖNIX CONTROL
Founded 1981

PHÖNIX CONTROL Méréstechnikai és Alkatrészgyártó Kft.

Magnetic level gauge PN40 / CL300

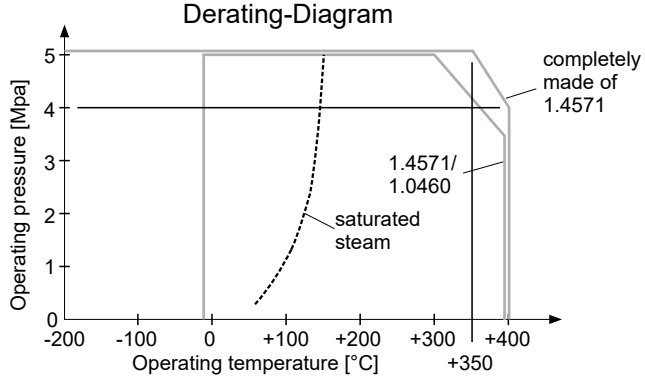
Magnetic indicating bar scale with fine resolution, indirect level indication
Fully closed housing with gapless weldings and butt-welded connections
Float magnet field totally circular with strong far field
Float defect control with indicating field in lower display end

Product group	**710**
Type	**110.0**
Sheet: 1/2	Revision: 7
Date:	04/22



Type .110.0 equipped with Magnetic switches MIN and MAX, vent plug, drain valve and indicarting scale .AVG3 with high-T isolation.

Derating-Diagram



Field of Application

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

General Data

Density, float Titanium:	from 0,29 g/cm³
Precision for Interface or density:	from ±0,01 g/cm³
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 1000 mPas
Display type:	710.AVG3
Connection:	weld end (Standard), Flanges DIN and ANSI
Drain/vent:	Cap (Standard), plug 1/2" NPT, as option3/4" NPT, G1/2A, G3/4A Valve DN6, optional DN8, Flange stud DIN and ANSI and acc. to customer spec.
Material tube, stud, flanges, fixtures:	1.4571 (Standard),ANSI-coded Titanium, Hastelloy, etc.,
float:	Titanium etc.
Weight:	Basic 14 kg + 0,66 kg/100mm ME

Design Data

Operating pressure:	up to PN 40 / CL 300 (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

Pressure Vessel Directive (PED) 97/23/EG
EC-Type Examination Certificate: ExNB ATEX 2190

Subject to alterations

Ordering no.

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

- XXX: Density, e.g. 054=0,54 g/cm³
- XXXX: Center to center ME in mm
- XXXXXXXX: Connections etc. see sheett 710.VAR

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Details

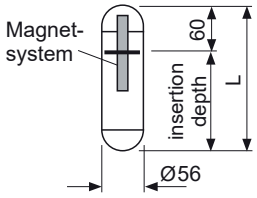
Float, Vent, Drain and Connection

Product group	**710**
Type	**110.0**
Sheet: 2/2	Revision: 7
Date:	04/22

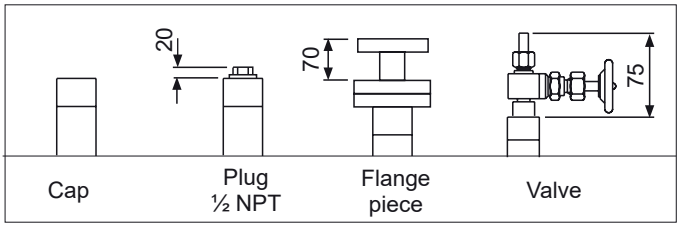
Float material Titanium, Ø56, PN40 / CL300

Density range [g/cm³]	Measure C [mm]	Total length L [mm]	Weight [g]	Part no
0,67...0,72	250	230	249	BG1001109072
0,58...0,66	270	250	263	BG1001109066
0,54...0,58	310	290	290	BG1001109058
0,51...0,53	360	340	327	BG1001109053
0,49...0,50	390	370	352	BG1001109050
0,46...0,48	440	420	388	BG1001109048
0,44...0,45	500	480	431	BG1001109045
0,40...0,43	600	580	505	BG1001109043
0,37...0,39	720	700	590	BG1001109039
0,29...0,30	770	750	611	BG1001109030
Interface float (individually designed ±0.01 g/cm³)				BG1001109TRX

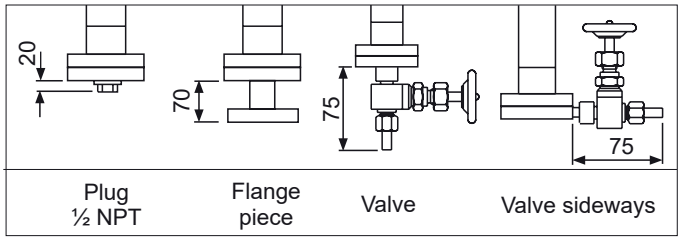
Density range corresponds to measuring error ±10 mm



Vent



Drain



Design Data

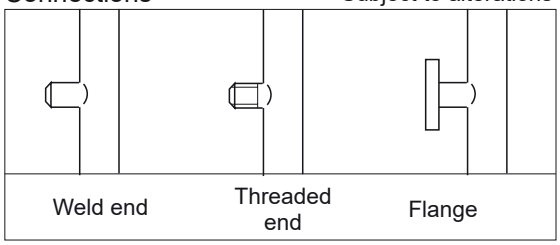
Operating pressure: up to PN40 / CL300 (see Derating-Diagram for 1.4571)

Test pressure: Operating pressure x 1,3

Operating temperature: -200 ... +400 °C (see Derating-Diagram for 1.4571)

Connections

Subject to alterations



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	0690077005VG
Fixing springs	3813000672
Align magnet	BG10XXXXMAKU

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

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