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PHÖNIX Messtechnik GmbH

AVEMAR

PHÖNIX MESSTECHNIK GMBH
VAIHINGER NIVEAU TECHNIK

Magnetic level gauge, PN 40/CL300

Magnetic indicating bar scale with fine resolution, indirect level indication
Indicating elements permanent magnetic
Fully closed housing with gapless weldings
Float magnet field totally circular with strong far field

Product group **710**

Variant **761029**

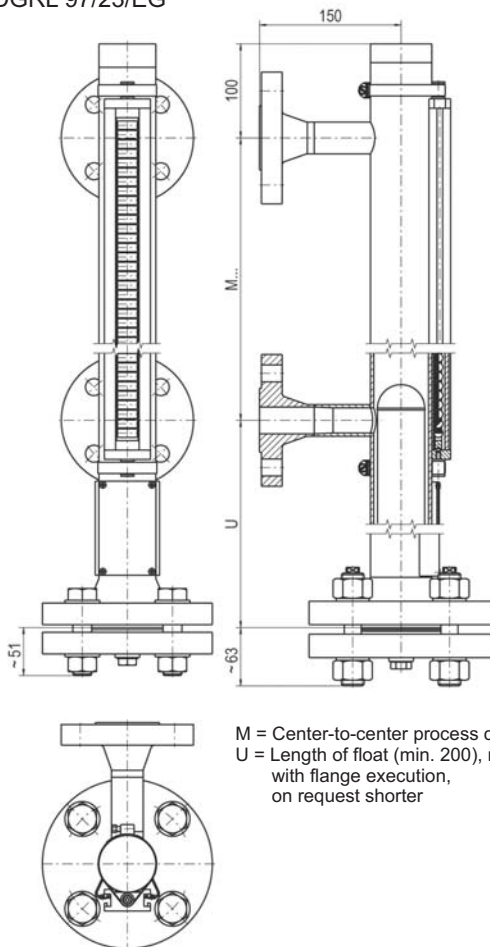
Sheet: 1/2

Revision: 2

Date:

11/2010

II 1/2G c T1...T6
 DGRL 97/23/EG



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: from 0.43 g/cm³
Precision for Interface or density: from ±0.1 g/cm³
Measuring range (=M): 150 to 6000 mm,
from 3000 mm holding bracket each 1500 mm
Measuring error: ±10 mm
Viscosity: max 1000 mPas
Display type: 710.AVVX
Tube: 76.1x2.9 mm
Connection: weld end or thread
flanges DIN10...25 up to PN40
flanges ANSI 1/2" ... 4" up to CLASS 300
Drain/vent: Welding cap or flat top
or flanged (Chamber end top)
plug G1/2", G3/4", NPT1/2", NPT3/4"/cap
vent DN8 PN400 G1/2", NPT1/2"/cap
flanges DIN10...25 up to PN40
flanges ANSI 1/2" ... 3" up to CLASS 300
weld end 1/2"

Material

- tube, stud, flanges, fixtures: Stainless steel, ANSI-coded
optional Titanium, Hastelloy
Titanium
- float: Titanium
Weight: Basic 14 kg + 0.66 kg/100mm M

Design Data

Operating pressure: up to 4.0 MPa/300 lbs
(according to design)
Temperature process: -160 ... +450 °C
(according to design)
T1/T2/T3/T4/T5/T6: 320/240/160/108/80/68 °C
Temperature ambient T1...T5/T6: -50 ... +80/+68 °C

Certificates

Pressure Vessel Directive (PED) 97/23/EG
EC-Type Examination KEMA 10 ATEX 0172 X
Certificate: Zone 0

Subject to alterations

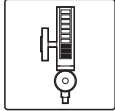
Ordering no.

710.761029

The ordering details are given in 710.TYPECODE

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Details
Float, Vent, Drain and Connection

Product group	710
Variant	761029
Sheet: 2/2	Revision: 1
Date:	10/2010

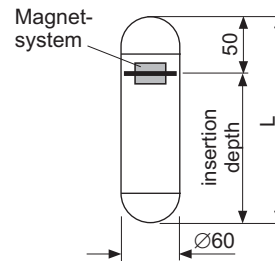
Float material Titanium 3.7035, Ø60, PN40, up to 250 °C

Density range / g/cm ³	Total length L / mm	Order no.
1.06 ... 1.33	150	BGZTS1500474
0.89 ... 1.06	180	BGZTS1800474
0.79 ... 0.90	210	BGZTS2100474
0.70 ... 0.78	245	BGZTS2450474
0.64 ... 0.70	285	BGZTS2850474
0.59 ... 0.64	325	BGZTS3250474
0.55 ... 0.59	370	BGZTS3700474
0.52 ... 0.55	425	BGZTS4250474
0.50 ... 0.52	475	BGZTS4750474
0.47 ... 0.49	540	BGZTS5400474
0.46 ... 0.47	605	BGZTS6050474

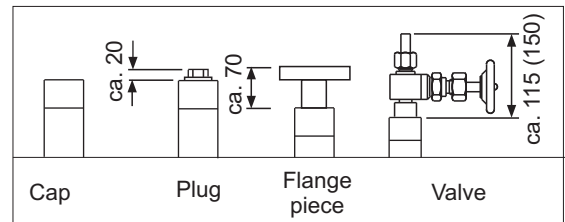
Density range corresponds to measuring error ± 10 mm
Interface float on request, higher pressure and temperatures on request

Design Data

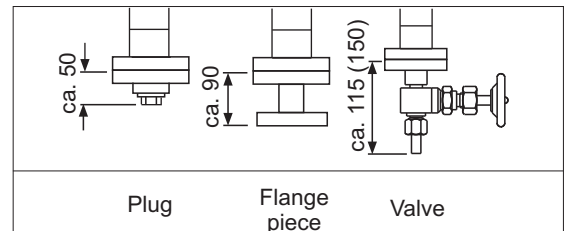
Operating pressure: up to 4.0 MPa/300 lbs
Test pressure: operating pressure x 1.3
Operating temperature: -30 ... +250 °C
higher temperatures on request
Subject to alterations



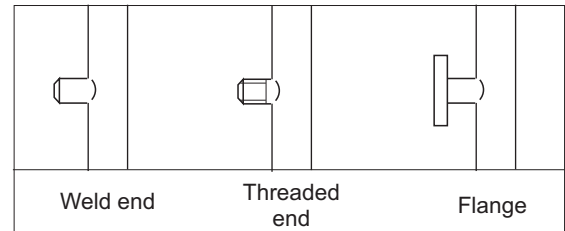
Vent



Drain



Connections



Ordering no.		Spare parts:	
Accessories:		Designation	Part no.
Device	Product group	Float	s. Float table above
Magnetic switch	740.XXXX	Indicating scale	BG10.AVGX
Level sensor	745.XXXX	Sealing	04750395XXX
Indicating scale	710.AVGX	Fixing springs	3813000672
Frost protection	710.PLEXI	Align magnet	BG10XXXXMAKU
Heating	710.HEAT		
There may be any other customer specified connections, materials and special floats.			

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