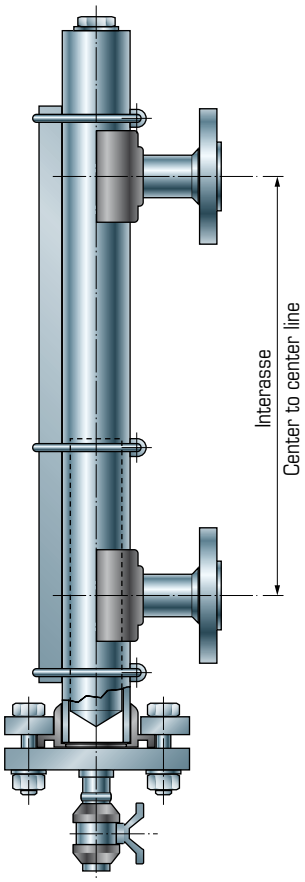
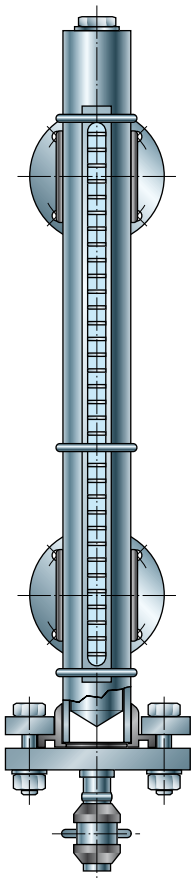
INDICATORI DI LIVELLO A TRASMISSIONE MAGNETICA
MAGNETIC DRIVE LEVEL INDICATOR

Modello *Model* **LG/MT**

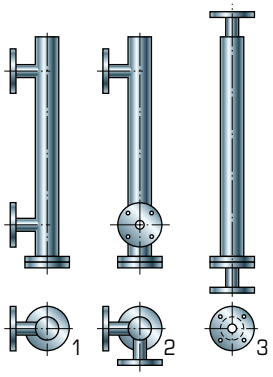




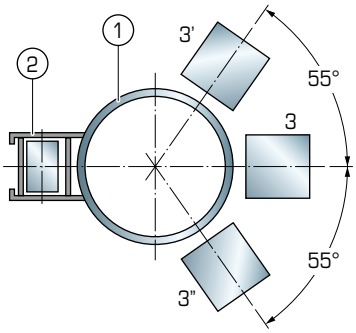
Esecuzione con parti a contatto in materiale plastico.

Esecution with plastic material wetted parts

Orientamento attacchi.
Connection orientation.



Orientamento contatti magnetici.
Magnetic switches orientation.



Pos.	Descrizione	*Description*
1	Colonna	*Column*
2	Scala visibile	*Visual scale*
3 - 3' - 3"	Posizione interruttori magnetici	*Magnetic switches position*

Simer s.r.l magnetic level indicators are installed on the side of the tank (bypass system) or vertically on the top of the tank.

Available types

- LL Side / side mounted
- LF Side / base mounted
- LT Side / top mounted
- TF Top / base mounted
- R Top insertion only
- GV Side / side mounted
- GDV Specifically designed to control methane-gas odorant

Options

Electrical bistable reed switch contacts, placed at the required levels, thus allowing control of several operating points with a single instrument. When equipped with a potentiometer transmitter, they allow continuous reading of liquid level.

Standards and certification

Simer s.r.l. magnetic level indicators comply with the following European Directives:

- PED 97 / 23 / EC - up to Class IV (plastic materials excluded).
- ATEX 94/9/EC (for electrical equipment only).
- 73 / 23 CEE (for electrical equipment only).
- Products intended for use in the Naval and Marine sectors are RINA and M.M.I (Italian navy) approved.

Indicator body sizes

Steel	25	Ø tube 25 - R type only (Mounting on the top of the tank)
	40	Ø tubo 40 -Maximum pressure 6 bar g
	50	Ø tube 48 - Maximum pressure 12 bar g
	60	Ø tube 60
	70	Ø tube 76
Plastic	70	Ø tube 76 - Maximum pressure 6 bar g

Side process connections horizontally to the process (types LL, LF, LT)

Flanged (FL) EN and ASME (ANSI)

EN	DN 15	PN 16
	DN 15	PN 40
	DN 15	PN 64
	DN 15	PN 100
	DN 20	PN 16
	DN 20	PN 40
	DN 20	PN 64
	DN 20	PN 100
	DN 25	PN 16
	DN 25	PN 40
	DN 25	PN 64
	DN 25	PN 100
	DN 40	PN 16
	DN 40	PN 40
	DN 40	PN 64
	DN 40	PN 100

ASME / ANSI	DN ½”	Class 150
	DN ½”	Class 300
	DN ½”	Class 600
	DN ½”	Class 1500
	DN ¾ “	Class 150
	DN ¾ “	Class 300
	DN ¾ “	Class 600
	DN ¾ “	Class 1500
	DN 1”	Class 150
	DN 1”	Class 300
	DN 1”	Class 600
	DN 1”	Class 1500
	DN 1 ½”	Class 150
	DN 1 ½”	Class 300
	DN 1 ½”	Class 600
	DN 1 ½”	Class 1500

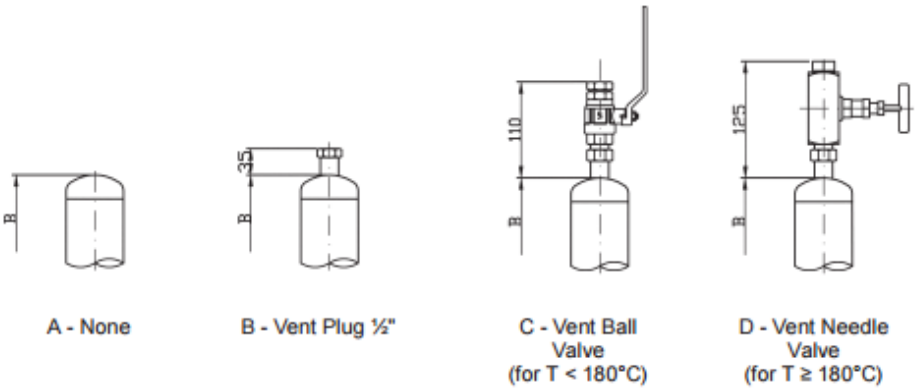
Top and bottom process connections vertical to the process (types TF, LF, LT)

Flanged (FL) EN and ASME (ANSI)

EN	DN 15	PN 16
	DN 15	PN 40
	DN 15	PN 64
	DN 15	PN 100
	DN 20	PN 16
	DN 20	PN 40
	DN 20	PN 64
	DN 20	PN 100
	DN 25	PN 16
	DN 25	PN 40
	DN 25	PN 64
	DN 25	PN 100
	DN 40	PN 16
	DN 40	PN 40
	DN 40	PN 64
	DN 40	PN 100

ASME / ANSI	DN ½”	Class 150
	DN ½”	Class 300
	DN ½”	Class 600
	DN ½”	Class 1500
	DN ¾ “	Class 150
	DN ¾ “	Class 300
	DN ¾ “	Class 600
	DN ¾ “	Class 1500
	DN 1”	Class 150
	DN 1”	Class 300
	DN 1”	Class 600
	DN 1”	Class 1500
	DN 1 ½”	Class 150
	DN 1 ½”	Class 300
	DN 1 ½”	Class 600
	DN 1 ½”	Class 1500

Drainage and vent types

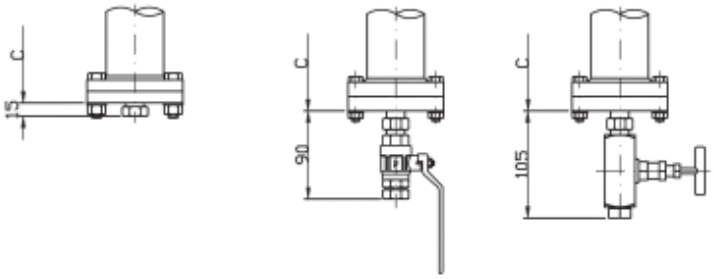


A - None

B - Vent Plug ½"

C - Vent Ball Valve (for T < 180°C)

D - Vent Needle Valve (for T ≥ 180°C)



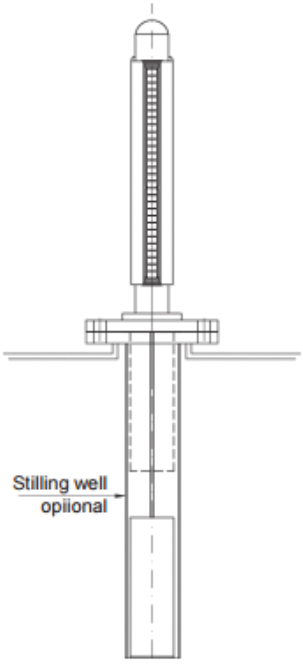
B - Drain Plug ½"

C - Drain Ball Valve (for T < 180°C)

D - Drain Needle Valve (for T ≥ 180°C)

Connection type R = Mounting on the Top Ø 25-50-60

External diameter flange: minimum 100 mm

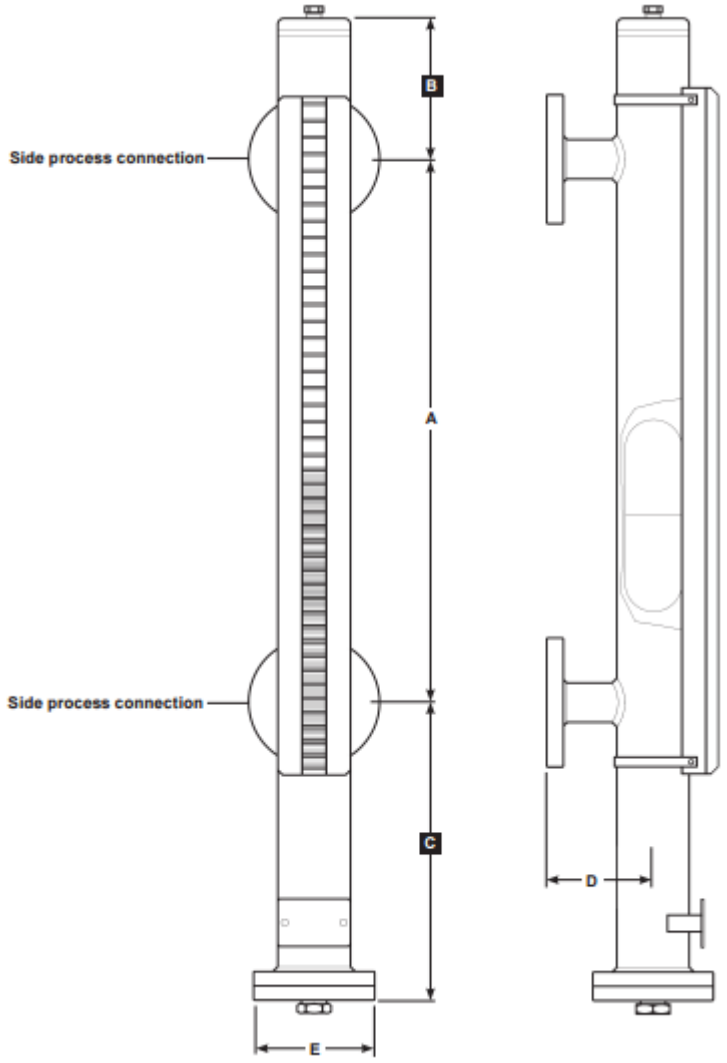


Design conditions

Maximum allowable temperature	Steel	Ø 40	25 to +180°C
		Ø 50-60-70	-25 to +350°C
	Plastic	PVC	-20 to +70°C
		PP	-20 to +105°C
		PVDF	20 to +130°C
Maximum allowable pressure	Steel	120 bar g	350° C
		140 bar g	150° C
	Plastic	< 6 bar g	
Specific gravity of fluid	Steel and plastic	> 0.8 Kg/l	
	Titanium	> 0.5 Kg/l	
Two-color line marker material and rollers	Polycarbonate	T < 230 ° C	
	Aluminium	T < 350° C	

Dimensions / weights (approximate) in mm and Kg

A	Minimum length	200
	Maximum length For greater lengths, please contact our technical offices	5700
B	Minimum	100
C	Depending on fluid specific gravity and pressure	Starting from 250
D	Depending on fluid specific gravity and pressure	Starting from 80
E	Depending on fluid specific gravity and pressure	Starting from 85
Weight	Dipends on A dimension	



Magnetic level switch

Description

The magnetic level switch is recommended for application in ship bilges, to control wastewater, sea water and water containing oil residue. It can also be used in tanks that are difficult to access and where the presence of liquids must be reported. Equipped with reed switch contacts, it allows the control of one operation point. Several level switches installed locally in the ballast tanks and are used to remotely report the achievement of various filling levels. In addition, when suitably connected to each other, several instruments carry out the start and stopping action of the pumps.

Assembly: level switch is mounted on walls by ass bracket.

Functioning principle: a magnetic contact, connected to an NFO cable, is contained in a sealer tube in which a float flows. The contact and the cable are fully weather-proof. When reaching the liquid, the float level acts magnetically upon contact quickly.

Protection: degree IP68 / Shutter 30 metres

Electrical contacts: SPST SPDT / DPDT (two simultaneous SPDT contacts) / One operation point.

Cable: NFO / Cable Sealed for immerging and resistant to contact with sea water, traces of paint, thinners and fuels.

Wetted part

Fixing rod	S
AISI 304L	1
AISI 316L	2

Protection cover			
Perspex	1	AISI 304L	2
		AISI 316L	3

Float Ø 44			
Buna N	A	316LSS	B

Options			
Without	0	Test devices	1

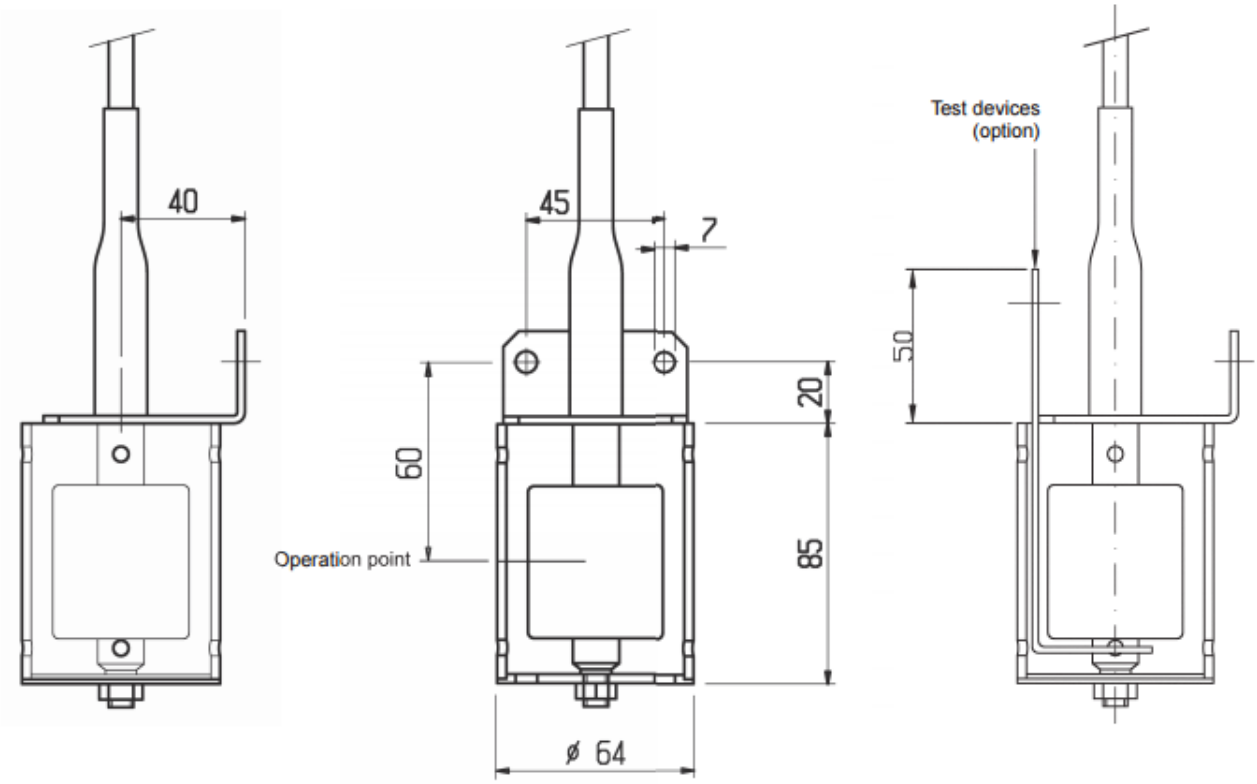
Length of cable

Cable NFO	2 m	2	5 m	5

Other measure available on request

Design conditions

TMA	-	Maximum allowable temperature	-20 +80°C
PMA	-	Maximum allowable pressure	< 16 bar g
Specific gravity of fluid			> 0,6 kg/l
Differential			fixed 8 mm



Spare parts

No part of the instrument can be provided as a spare part. In the event of breakage, the full instrument must be purchased.