

### Application

**Description** The by-pass level indicators are installed outside the tank that contains the liquid to be controlled. It works according to the principle of communicating vessels. The float housed inside the transparent tube makes it easy to see the height of the liquid level.

Optionally, magnetic contacts or transducers can be added in order to obtain an electrical signal based on the level of the liquid.

**Applications**

- Measurement and indication of the level in aggressive, combustible, toxic, agitated, contaminated liquids, etc.
- Applicable in all areas of industry through the use of highly corrosion resistant materials.

### Working conditions

Material	PVC	PP	PVDF	INOX
Temperature	-10..+60°C	-10..+80°C	-20..+145°C	-20..+200°C
Pressure	PN10	PN10	PN10	PN15..PN40

### Installation mode

**Mounting** Vertical

### Certificates

Type Approval Certificate for industry in general, naval and "offshore" by LLOYD's Register

### Technical characteristics

Precision	±10 mm
Liquid density	0.55 ... 2kg/l (others on request)
Liquid viscosity	1500 cSt maximum
Measuring range	150mm ... 15m
Connection	Flanges EN 1092-1 PN10-16 DN20-25

### Floats

Material	Liquid density kg/l	Nominal pressure
Inox EN 1.4404	0,84 ... 2,00	PN40
Inox EN 1.4404	0,84 ... 2,00	PN63
Inox EN 1.4404	0,84 ... 2,00	PN100
PVC	0,60 ... 2,00	6 bar max.
PP	0,70 ... 2,00	6 bar max.
PVDF	0,80 ... 2,00	6 bar max.

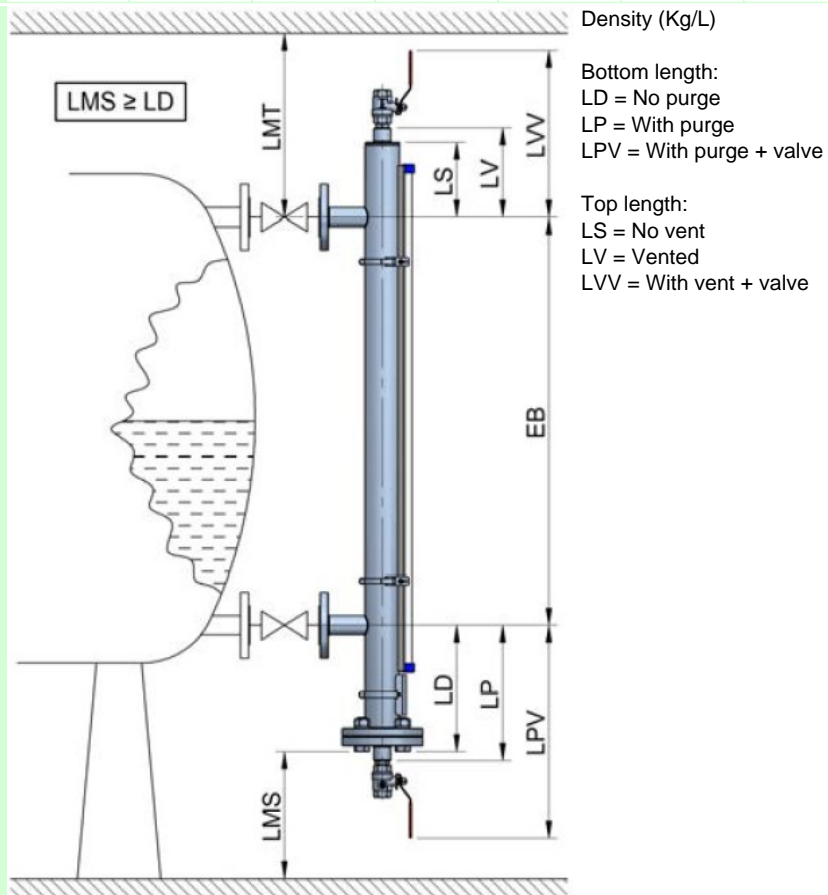


EN 1.4404 PVC/PP/PVDF

## Mounting

The lower length LD, LP or LPV of the LT series level indicators is variable according to the density of the operating liquid. The lower the density, the longer the length. To access the float for density change, maintenance,... a minimum distance LMS must be respected between the end of the level indicator and the ground equal to or greater than the LD level.

Material	Density	LD	LP	LPV	LS	LV	LVV
INOX	0,55 ... 0,59	430	445	590	130	155	300
INOX	0,60 ... 0,91	340	355	500	130	155	300
INOX	>0,92	260	275	420	130	155	300
PVC	0,60 ... 0,79	400	400	525	150	140	265
PVC	0,80 ... 0,89	310	310	435	150	140	265
PVC	>0,90	240	240	365	150	140	265
PP	>0,70	240	240	365	150	165	290
PVDF	0,80 ... 0,89	415	415	540	150	165	290
PVDF	0,90 ... 0,99	340	340	465	150	165	290
PVDF	1,00 ... 1,19	290	290	415	150	165	290
PVDF	>1,20	240	240	365	150	165	290



**Flange**

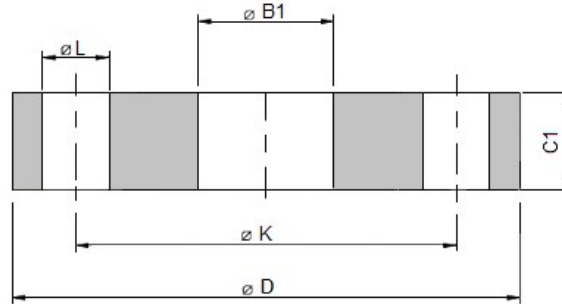
Available models

- Flange EN-1092-1 PN10 DN20
- Flange EN-1092-1 PN10 DN25
- Flange EN-1092-1 PN16 DN20
- Flange EN-1092-1 PN16 DN25

PN	DN	D	K	L	Nº	M	B1	C1	Weight
10	20	105	75	14	4	M12	27.5	16	0.936
10	25	115	85	14	4	M12	34.5	16	1.11
16	20	105	75	14	4	M12	27.5	16	0.936
16	25	115	85	14	4	M12	34.5	16	1.11

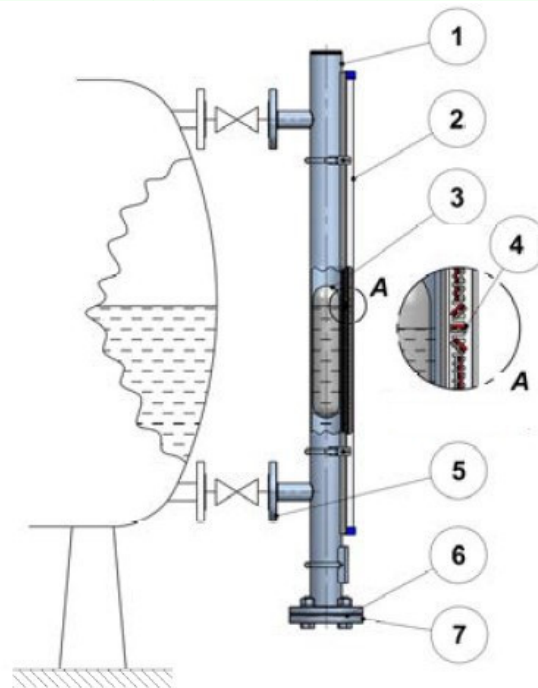
Weight (kg)

Nº = Number of holes  
M = Metric of the holes


**Materials**

Nº	Description	EN 1.4404	PVC	PP	PVDF
1	Body	EN 1.4404	PVC	PP	PVDF
2	Slat rail	Al + PC	Al + PC	Al + PC	Al + PC
3	Float	EN 1.4404	PVC	PP	PVDF
4	Foils	POM	POM	POM	POM
5	Connection	EN 1.4404	PVC	PP	PVDF
6	Sealing gasket	Belpa CSA-50	N / V / E	N / V / E	N / V / E
7	Closing	EN 1.4404	PVC	PP	PVDF

Al + PC = Aluminum + Polycarbonate  
POM = POM acetal resin  
N / V / E = NBR / Viton / EPDM



**Contacts**

Description	Changeover bistable reed contact
Box	IP65 polycarbonate
Breaking capacity	0,5 A .. 220VAC .. 60VA
Hysteresis	±6 mm
Fluid temperature	-20°C .. +250°C
Room temperature	-10°C .. +70°C
ATEX	Suitable for ATEX classified area 'Simple Material'

