

Magnetic Level Gauge

MLG Instruments is a company that focuses on designing, production of magnetic level gauges. Our product range is suitable various industries.

With the magnetic level gauge, also called level indicator, you can measure the liquid of a closed vessel. The magnetic level gauge of MLG instruments can be used in almost any situation where other measuring devices, such as glass and plastic gauges may pose a risk.

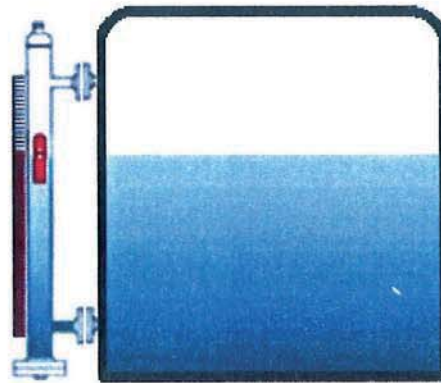
Our products are robust and maintenance free.

The operating principle

The magnetic level gauge operates on the principle of magnetic field connected to the vessel to provide fluid level information. As the level starts rising or falling the magnetic float travels also with the liquid. Outside the tube is mounted an aluminium indicator with bi-colour (red-white) rollers causes, each roller can rotate 180°. There is always a communication between the magnetic inside the floats end the rollers, red mean liquid and white mean gas side.

Suitable for difficult applications as:

- * High pressure
- * Higher temperatures
- * Aggressive media
- * Fracture risk



Suitable for various industries including:

- * Offshore
- * (Petro) chemical plants
- * Gas installations
- * Power plants
- * Water purification plants

Standard Material:

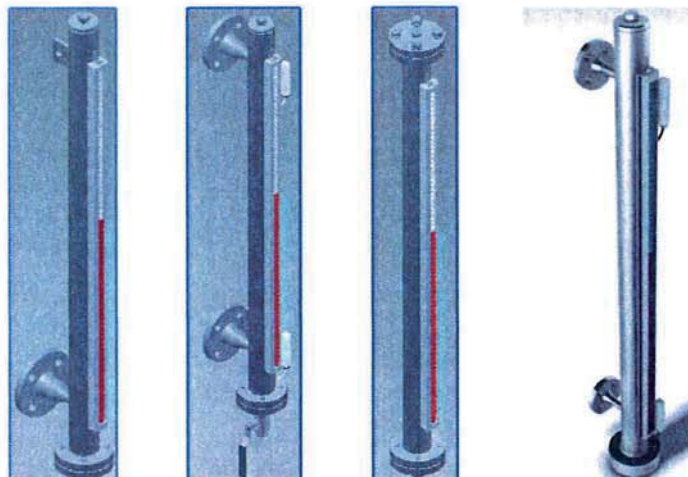
All parts of a magnetic level gauge is made from non-magnetisable parts. This is necessary for the proper functioning of the magnetic level gauge. MLG Instruments is using standard stainless steel material 1.4404 (ASME 316L) for all welded parts, plugs and the float is made from 1.4571 (ASME 316Ti). The indicator is made from anodised aluminium.

Materials

- * 316L (standard)
- * 316Ti
- * 316L PTFE gecoat
- * Hastelloy
- * Inconel
- * Duplex
- * Plastic

On request

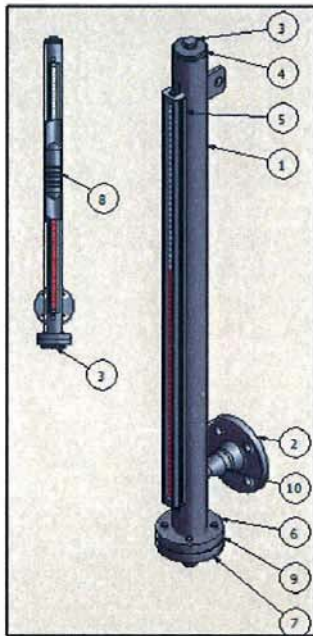
- * Switches
- * Transmitter (4-20 mA)
- * Scale (mm or cm)
- * Isolation



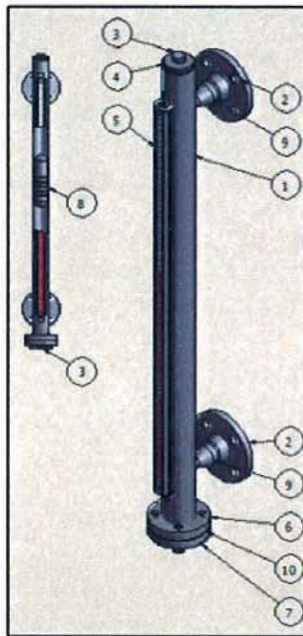
Technical information

Different Models:

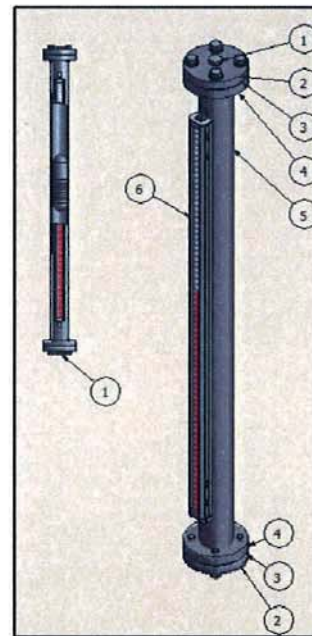
All products are custom made,
MLG instruments have 3 different models in the assortment, if you need a special model please do not hesitate to contact us:



Type MLA (max. 10 bar)



Type MLB (max. 40 bar)



Type MLC (max. 40 bar)

Standard materials for the MLA, MLC and MLB series;

Measurement length	: Max. 5000mm	
Indication rail	: Aluminium / Macrolon (rood/wit rollers)	
Tube diameter	: 60,3x2mm gelast	(EN 10217-7 TC1 D2/T3)
Process connection	: Flanges 1.4404 DN15 < DN40 Flanges 316L 1/2" < 1 1/2" Threated BSPF or BSPF 3/8" < 1" Threated NPTM or NPTF 3/8" < 1" Welding ends	(EN 1092) (ANSI B16.5) (ISO 7-1) (ANSI B120.1)
Working pressure	: MLA max. 10 bar (145 psi) MLB & MLC max. 40 bar (580 psi)	
Drain & top	: 1/2" plug	
Float material	: 1.4571 (316Ti)	
Working temperature	: - 50°C < 350 °C (>160°C isolated)	
Gasket	: Aramide, PTFE of Graphite	
Specific Gravity	: min. 700 kg/m3 (below on request)	

