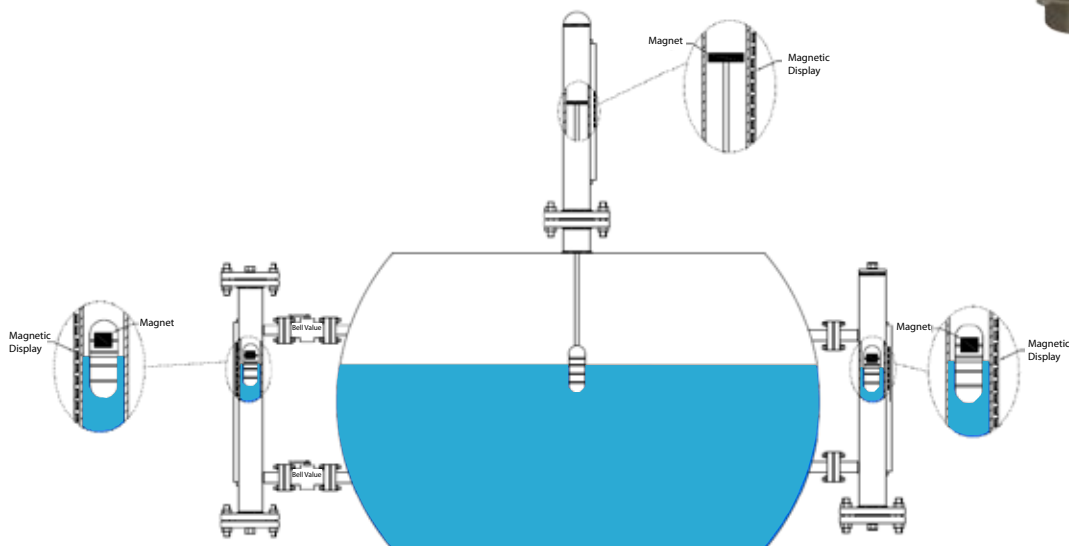


MLG Magnetic Level Gauge

Theory of Operation

The MLG Level Gauge consists of an external chamber mounted by flange or thread to the size of the process vessel. The external chamber is completely sealed and includes only a magnetic float that rises and falls according to the medium level due to buoyancy. Attached externally outside of the chamber is a strip of magnetic flags that are painted either white or red. When the magnetic float passes through the chamber, the magnetic flags are flipped over 180° to indicate level of the medium within the chamber. The flags are made of engineering plastics for general purposes as well as ceramic for high temperature applications. This operation means that the effective medium level could be determined at any point of time by the level of red flags on the chamber without any power source required.



Technical Advantages

- Robust design for rough environments
- Complete separation of medium contact
- Special alloy chambers for specific applications
- Customized design to suit different applications
- Possible addition of magnetic switches for point level detection
- Possible addition of magnetic level transmitter for continuous level monitoring
- Suitable for high pressure (320Bar), high temperature (400°C) and low specific gravity (0.4kg/dm³)

Product Types

- Standard
- Control Valve Type
- High Pressure Type
- Top Mounted Type

Ordering Code

Model MLG - □□ - □□□ - □□□□ (□□□□)

Chamber	Code	Material	Code	Material
	A	SUS 304	F	Polypropelene
	B	SUS 316	G	PVDF
	C	SUS 316L	H	Inconel 625
	D	Hastelloy C	G	Inconel 825
	E	Titanium Grade 2		

Float Type	Code	Model	S.G	Dimension	Op. Pressure	Op. Temp.	Material
	1	MG540	0.7	ø50 x 200	30 kg/cm2	-20~400°C	SUS 316
	2	MG580	0.87	ø50 x 150	40 kg/cm2	-20~400°C	SUS 316
	3	MG592	0.72	ø50 x 230	60 kg/cm2	-20~200°C	SUS 316
	4	MG654	0.8	ø61.3 x 394	90 kg/cm2	-20~400°C	Titanium
	5	MG810	0.87	ø42 x 270	250 kg/cm2	-20~200°C	Titanium
	6	MG820	0.58	ø38 x 270	320 kg/cm2	-20~200°C	Titanium

Top End	Code	Description	Code	Description
	A	Welding Cap	E	Dual Flange + Mounting Flange
	B	Flat Top + Plug	F	Flat Top + Control Valve
	C	Dual Flange + Plug	G	Dual Flange + Control Valve
	D	Flat Top + Mounting Flange	H	Dual Flange + Angle Pipe

Connection	Code	Description	Size	Press. Rating / Type
	A	Flange	1/2" - 2"	150# - 2500#
	B	Thread	1/2" - 2"	NPT, BSP, G, R, PT, PF
	C	Control Valve	1/2" - 2"	150# - 2500#
	D	None		

Bottom End	Code	Description	Code	Description
	T	Dual Flange + Plug	V	Dual Flange + Angle Pipe
	U	Bottom Mounting Flange	W	Dual Flange + Drain Valve

C-C Distance	Code	Length (mm)
	XXXX	

Magnetic Switch	Code	Description	Material	Protection
	N	Standard Type	Aluminium	IP67
	J	Housing Type	Aluminium	IP65
	K	Adjustable Type	PP	IP67
	X	Ex -Proof Type	Aluminium	Ex d IIC T6

Switch Quantity	Nos
	1 ~4

Level Transmitter	Code	Description	Material	Protection
	K	Standard Type	Aluminium	IP65
	X	Explosion Proof	Aluminium	Ex d IIC T6

Others	Code	Description	Code	Description
	J	Steam Jacket	K	Heat Insulation