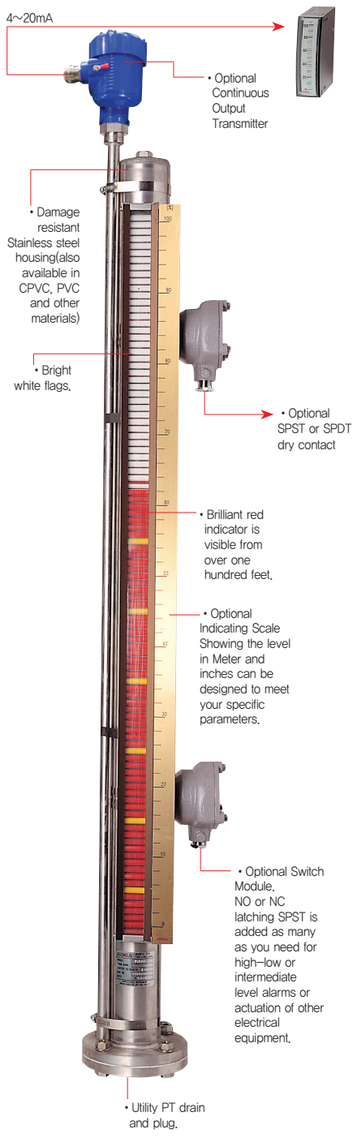
Level Gauges

Magnetic Float Type Level Gauge



For low temp.
Made of poly-carbonate

For high temp.
Made of ceramic

GENERAL

Hanla magnetic float type level gauges have been developed to comply with the requirements of the SOLAS 1981, 1983, 1996, 1997, 1998 amendments. The gauges construction is accepted by marine classification authorities throughout the world.

HIGH VISIBILITY

Brilliantly colored flags facilitate to read even at great distances. The indicator is isolated from the measured media;therefore suitable indicators can be used where sight glasses are not even a consideration.

ENVIRONMENTAL SAFETY

Monitored liquid is contained inside a pressure tight housing.

EFFICIENCY

Continuous level indication without external power.

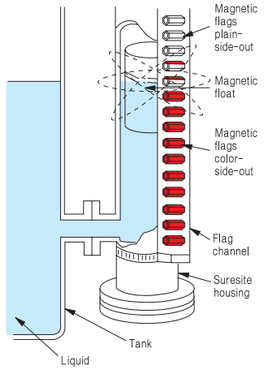
ELECTRONIC CONTROL

Attached optional point level switches and/or continuous level transmitters extend the capabilities beyond those of a simple sight glass replacement.

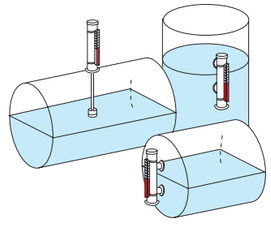
WIDELY USED TO MEASURE

H.F.O, D.O, L.O, F.W, petrochemistry chemical instead of using the gauge glasses.

Operating Principle



As liquid level rises, a magnet-equipped float within the unit inverts the magnetic flags in the external indicator to "color-side-out." The flags is remained magnetically by interlocking in a column until again inverted to "plain-side-out" by the float as liquid level falls. Liquid level is indicated by the junction of the "color" and plain portions of the column.



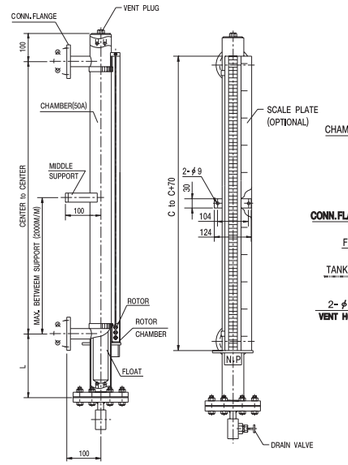
Model number code system

FLG - □ - □ - □ - □ (Option)

- Symbol of Magnetic Float Type Level Gauge
- Level gauge mounting type
  - MS : Side-side mounting
  - MT : Top mounting
- No. of level switch
  - 1LS : 1-Level switch
  - 2LS : 2-Level switches
  - 3LS : 3-Level switches
  - 4LS : 4-Level switches
- Enclosure
  - W : Weather proof(IP56)
  - E : Explosion proof(Exd ⅡC T6)
- Output of Level Transmitter
  - T : 4 ~ 20mA, 2wire
  - TH : 4 ~ 20mA, 2wire, smart type HART®
  - TR : 1Kohm

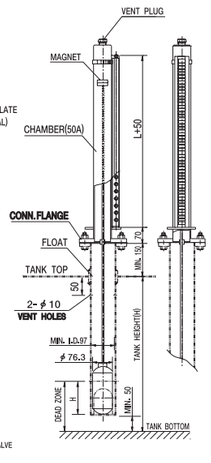
OUTLINE / DIMENSIONS

FLG-MS

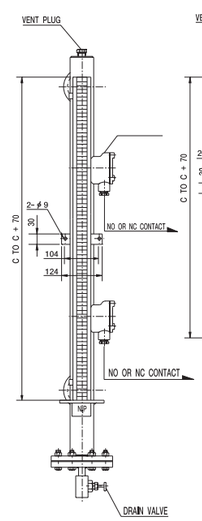


"L" Dimension
at SP.GR. 1.0~0.95:165mm
SP.GR. 0.95~0.9:177mm
SP.GR. 0.9~0.85:193mm
SP.GR. 0.85~0.8:213mm
SP.GR. 0.8~0.75:240mm

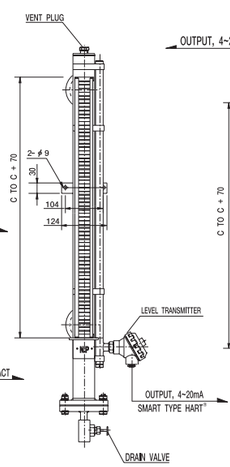
FLG-MT



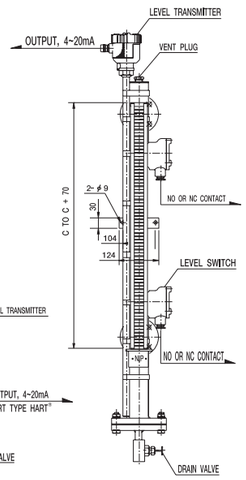
FLG-MS-2LS-W



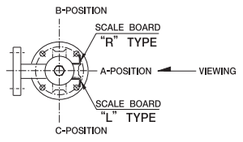
FLG-MS-TH-W



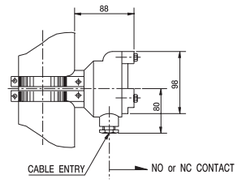
FLG-MS-2LS-T-W



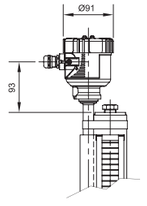
INDICATOR MOUNTING POSITION



LEVEL SWITCH OUTLINE



LEVEL TRANSMITTER OUTLINE



Standard model and specification

Symbol	Mounting method	Contact size	Measuring range	Working conditions		Specific gravity	Accuracy	Materials			
				Press.	Temp.			Chamber	Float	Rotor	Rotor chamber
FLG-MS-□-□	Side-Side	JIS, DIN. ANSI 25A	Max.5000mm	5kg/cm²	200℃	Over 0.8	+/-10m/m	SUS304	Titanium	Aluminum	Aluminum
		JIS, DIN. ANSI 25A	Max.5000mm	120kg/cm²	450℃	Over 0.69	+/-10m/m	SUS304	Titanium	Ceramic	Aluminum
FLG-MT-□-□	Top	JIS 5K100A or 125A	Max.2500mm	5kg/cm²	200℃	Over 0.8	+/-10m/m	SUS304	Titanium	Aluminum	Aluminum

■ Please consult with our factory when other conditions are required.

Specification of level switch and level transmitter assembly option

Description	Module	Output	Contact rating	Contact form	Power source	Accuracy/ resolution	Material		No.of point	Measuring range	Max. working temp.	Enclosure
							Housing	Transmitter				
Level switch	Reed switch	Dry contact	125VAC, 0.5A	SPDT, SPST	N/A	±3m/m	AC	N/A	Max.6	N/A	120	Weather proof
Level transmitter	R/I converter	4~20mA Two-wire	N/A	N/A	DC 24V	10m/m	AC	SUS304	N/A	400m/m~ 5000m/m	120℃	Weather proof
	Smart type HARTconverter	4~20mA Two-wire Smart type HART	N/A	N/A	DC 24V	10m/m						

■ These switches & transmitter modules can be intrinsically safe by using the I.S barrier.
■ Please consult with our factory when other conditions are required.
■ The scale board is an optional item.

Manufacturing Line Authorized by the Quality