

MAGNETIC FLAP TYPE LEVEL GAUGE

HLG-100F Series

2 YEARS WARRANTY



ASME



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Always The Best Solution

HITROL CO., LTD.

Overview

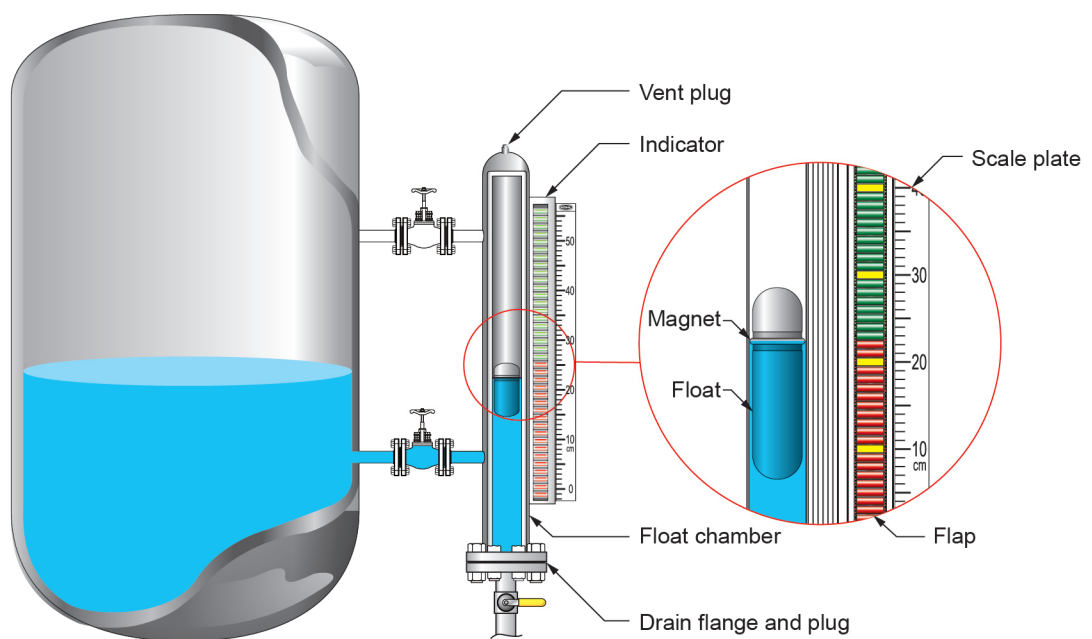
HLG-100F Series is a Magnetic Flap Type Level Gauge which strengthens the weak point of glass level gauge and it continuously measures a liquid levels in a tank, can be used combining with a level transmitter and/or level switch. It has a chamber type installation method and the liquid level can be easily read through the change of flap color.

Characteristics

- Easy installation for the measurement of liquid levels in various tanks
- Suitable to be used for the tank requires current output (DC 4 ~ 20mA) and contact (SPST or SPDT) as well as local indication simultaneously.
- Flange or socket as a process connection is available as per the site condition.
- Applicable to the explosive liquid (volatile liquid) and harmful liquid
- Available to use for high temperature and pressure process

Operation Principle and Composition

A float which is located in a chamber moves up or down as per liquid level in a tank and a built-in magnet in a float changes the color of indicating flap by magnetism, indicates liquid level in the tank by a flap color.



MAGNETIC FLAP TYPE LEVEL GAUGE
HLG-100F Series

Specification

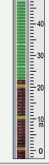

▶ Level Gauge

| Model | | HLG-100F | |
|---------------------|---------|---|--------------------------------|
| | | Stainless Steel | Teflon |
| Type | | Magnetic Flap Type Level Gauge | |
| Installation | | Side to Side | |
| Process Temperature | | Max.120°C (std.) / Max. 350°C (opt.) | Max.120°C |
| Process Pressure | | Up to 10kg/cm ² (std.) / Up to 63kg/cm ² (opt.) | Up to 3kg/cm ² |
| Enclosure | | Weather-Proof | |
| Measuring Range | | Min. 350mm / Max. 5,000mm | Min. 350mm / Max. 2,500mm |
| Material | Chamber | SUS 304, SUS 316L | SUS 304+Teflon, SUS316L+Teflon |
| | Float | Titanium | Teflon |



If the process medium is even slightly corrosive, Teflon lining type should be applied.

▶ Indicator

| Model | | HI-MF | | | |
|-------------------|------------|-------------------------|---|---------------------|---|
| Installation | | Band | | | |
| Material | Case | Aluminum | | | |
| | Flap | Ceramic | | | |
| Fluid Temperature | | Max. 120 °C | | Max. 350 °C | |
| Flap Color | Level Down | Green |  | White |  |
| | Level Up | Red (Yellow/10cm) | | Black (Yellow/10cm) | |
| Scale Unit | | m (std.) / m, cm (opt.) | | | |

▶ With Transmitter

| Model | HLG-100FT [HLG-100F + HT-100R(-Ex)] |
|---------------------|---|
| Enclosure | Weather Proof (IP65) / Ex-Proof (Ex d IIC T6, IP65) |
| Ambient Temperature | -20°C ~ +60°C |
| Power Source | DC 24V |
| Output | DC 4~20mA (2-wire) |
| Body Material | SUS 316L |

▶ With Switch

| Model | HLG-100FS [HLG-100F + HR-10L(-Ex)] |
|---------------------|---|
| Enclosure | Weather Proof (IP65) / Ex-Proof (Ex d IIC T6, IP65) |
| Ambient Temperature | -20°C ~ +60°C |
| Contact Form | SPDT |
| Contact Rating | AC 220V 0.5A, DC 24V 0.5A |
| Body Material | Duralumin |

| Model | HLG-100FS [HLG-100F + HR-30(-Ex)] |
|---------------------|---|
| Enclosure | Weather Proof (IP65) / Ex-Proof (Ex d IIC T6, IP65) |
| Ambient Temperature | -20°C ~ +60°C |
| Contact Form | SPST |
| Contact Rating | AC 250V 1A, DC 24V 0.5A |
| Body Material | SUS 316L |

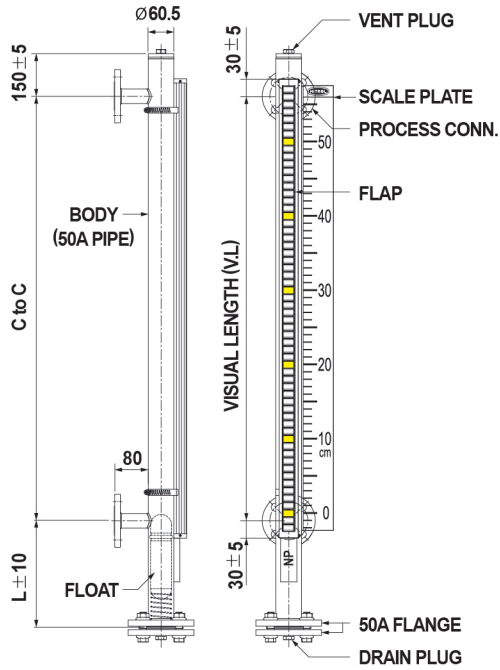
▶ With Transmitter & Switch (HLG-100FTS)

▶ **Order Code** can be printed at our website (www.hitrol.com)

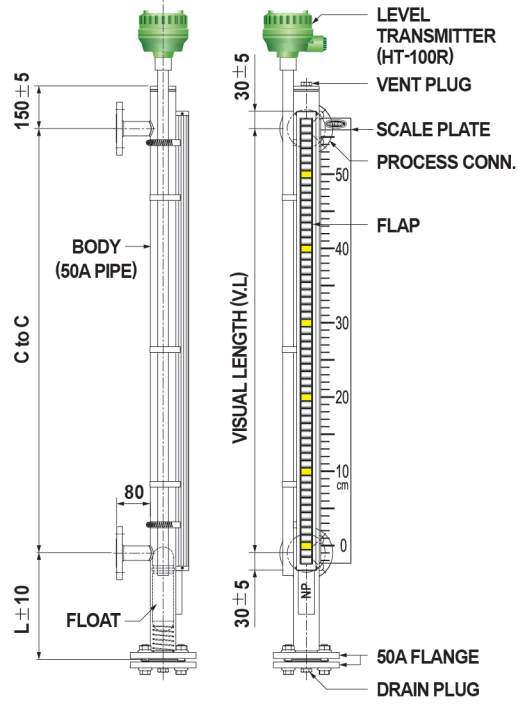
Dimension

Stainless Steel

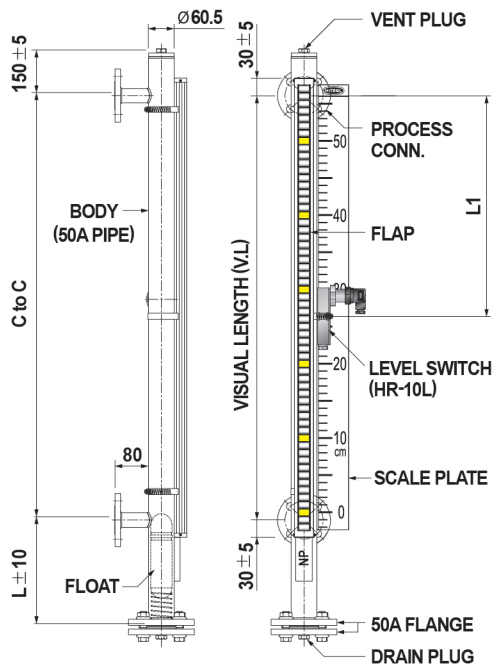
HLG-100F (Standard)



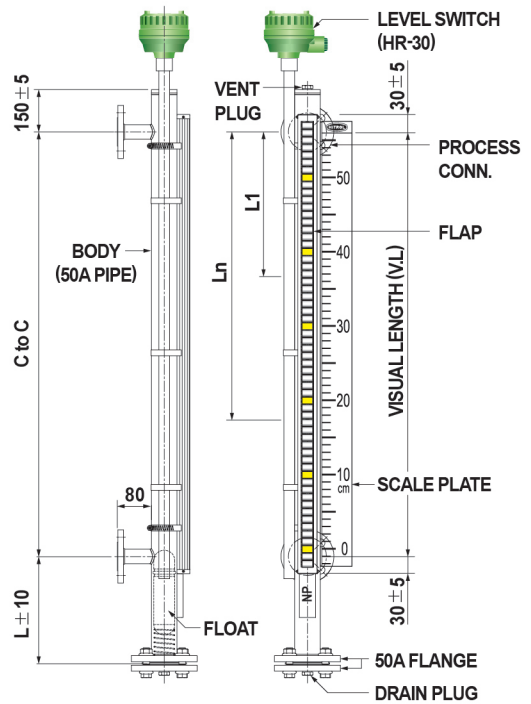
HLG-100FT (With Transmitter)



HLG-100FS (With adjustable Switch)

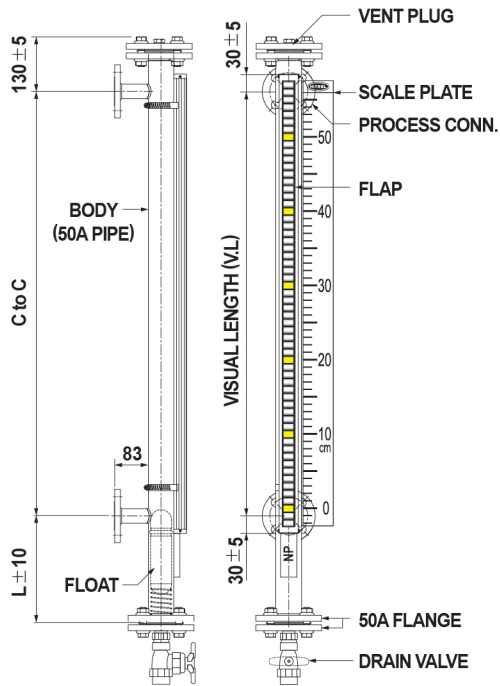


HLG-100FS (With fixed Switch)

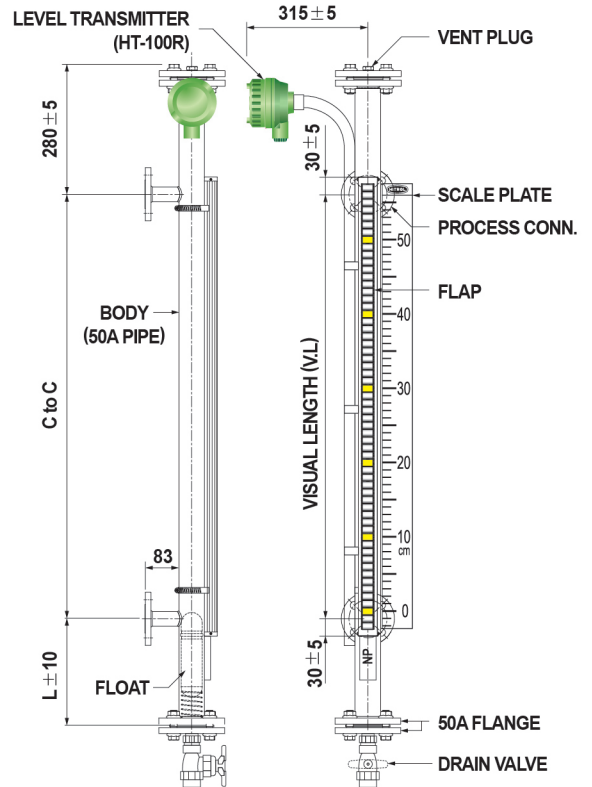


Teflon

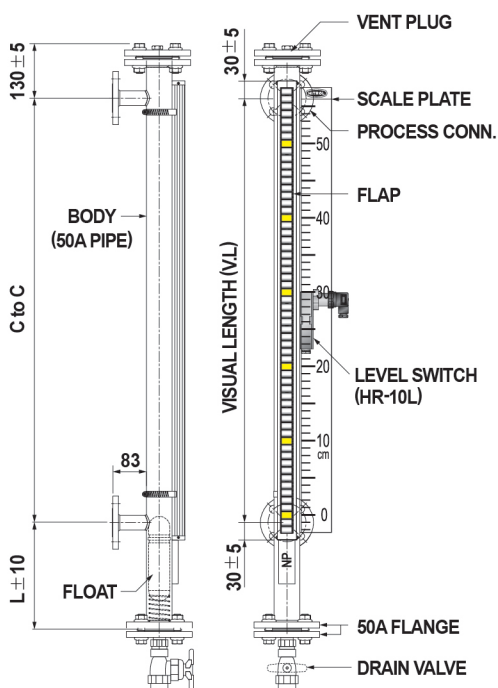
HLG-100F (Standard)



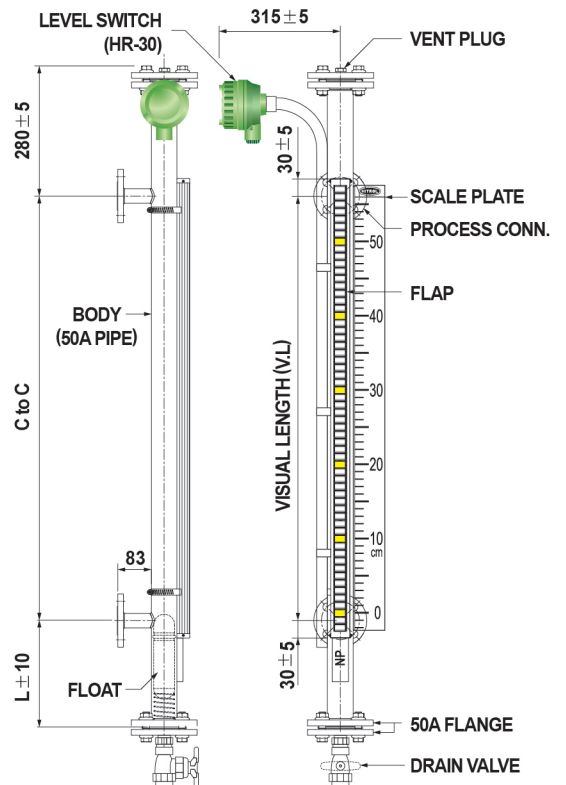
HLG-100FT (With Transmitter)



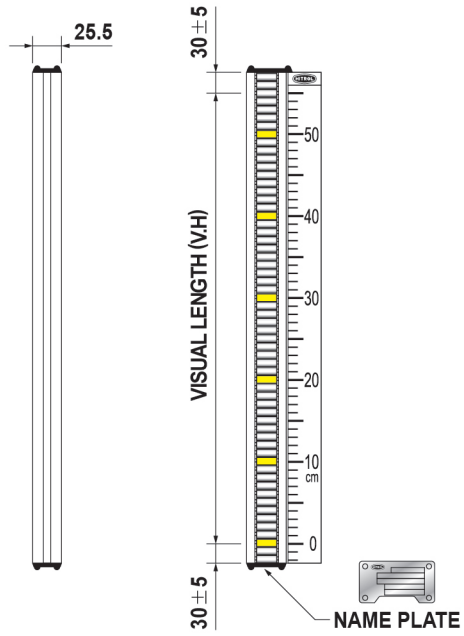
HLG-100FS (With adjustable Switch)



HLG-100FS (With fixed Switch)



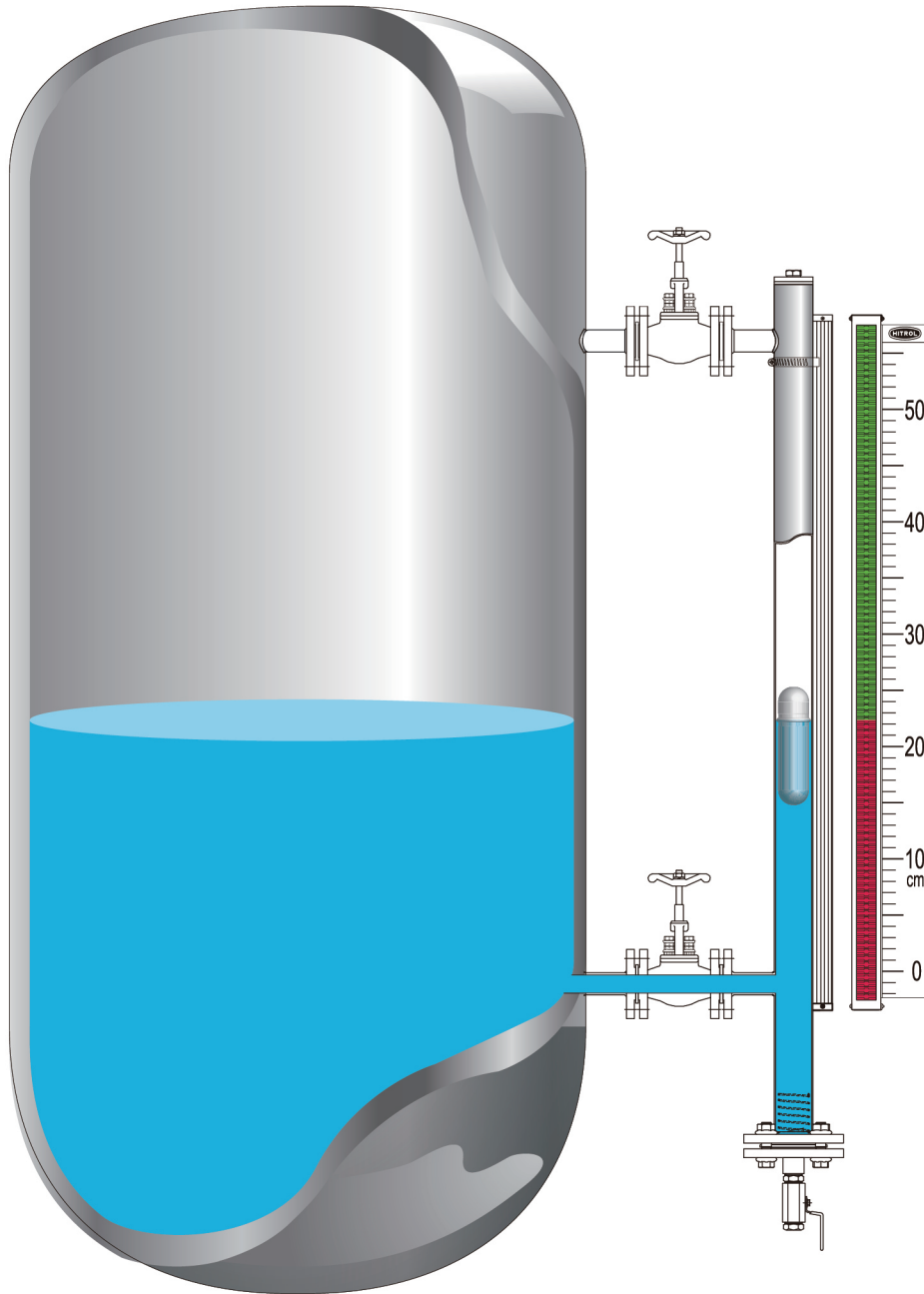
HI-MF (Indicator)



- The scale unit in the image above is optional.
- Actual product may have a tolerance slightly.

Installation

- Below drawing should be considered when installation.



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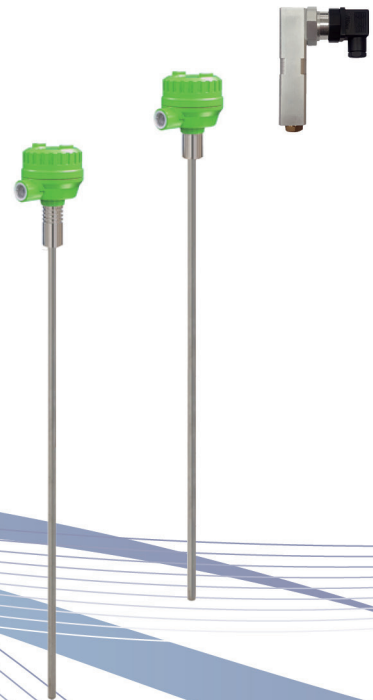
HLG-100F Series

01 Applicable to high temperature and pressure



02 Local Indication, contact and current output are simultaneously available

03 Applicable to the explosive liquid and corrosive liquid



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* Design of product can be changed for upgrade without notice.