

Magnetic, Liquid Level Gauge-MLG



ALPHA ENGINEERING AND SYSTEMS

It is commonly used for visual level indication of liquids, which attack glass or are hazardous, flammable, toxic, aggressive, agitated, contaminated and under high temperature & pressure i.e. for services, where glass gauges are unsafe.

Features :

- Rugged gland less construction to provide safety in handling toxic, flammable & highly corrosive liquid.
- Suitable for glass attacking liquid, where conventional gauge glass can not be used.
- Option of providing continues transmitter for remote indication & control and adjustable level switch for alarm & control.

Construction & Operations :

It consists of a chamber and an internal float in non-magnetic material, compatible with the liquid. The float containing a magnetic system rides on the liquid level and is coupled to an external visual indicator, which comes in two options. The simpler & economical design consists of a RED magnetic follower capsule, that moves within a glass tube filled with water (to reduce friction) (fig. 1-a) and can be read against a scale. The other system is expensive and consists of a series of bicolour flappers. WHITE on front side and contrasting RED on the reverse. These flappers rotate corresponding to float movement, thus changing their colour from WHITE to RED as the float rises and vice-versa when the float falls. As such the liquid level represented by an external RED column (fig. 1-b).

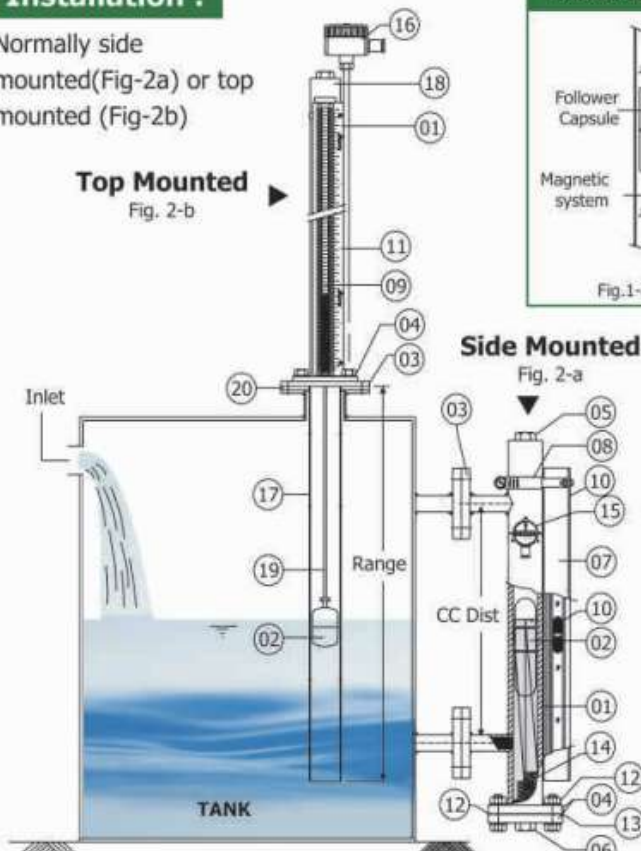


Installation :

Normally side mounted (Fig-2a) or top mounted (Fig-2b)

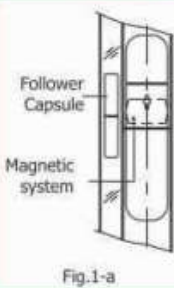
Top Mounted
Fig. 2-b

Side Mounted
Fig. 2-a

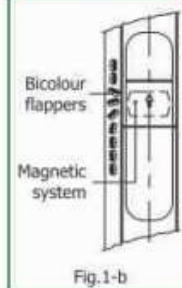


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|--|-----------------------------|
| 01) Liquid Chamber | 11) Calibrated Scale |
| 02) Float | 12) Nuts, Bolts & Washer |
| 03) Process Flange | 13) Gasket |
| 04) Chamber Flange | 14) Float Retainer (Spring) |
| 05) Vent Plug | 15) Switch (Adjustable) |
| 06) Drain Plug | 16) 'X' Mitter |
| 07) Local Indicator Housing | 17) Perforated Steel Well |
| 08) Indicator mtg. clamps | 18) Magnetic Chamber |
| 09) Local Indicator Flappers | 19) Stem |
| 10) Local Indicator (Follower Capsule) | 20) Still Well Flange |

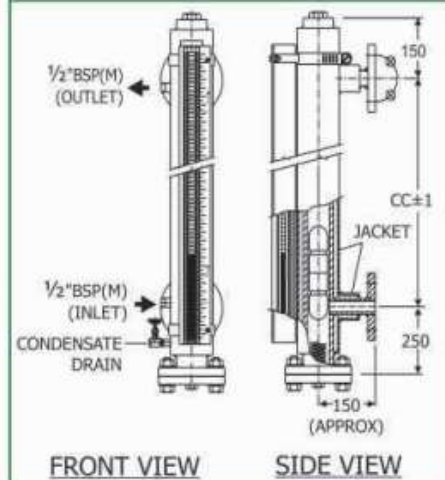
Follower Capsule



Rotary Flappers



Jacketing Arrangement



Accessories

Magnetic Switches Options

'X' mitter

