



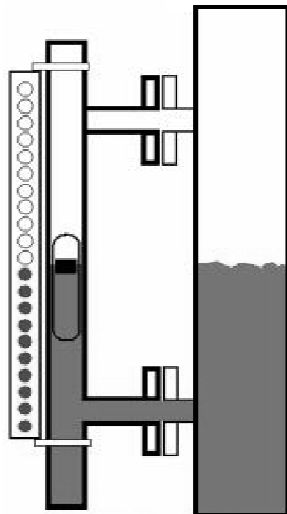
# Shandilya Magnetic Level Indicator

Providing Solution to the Most Common Practical Problems

## Magnetic Level Indicators

Shandilya magnetic level indicators are low-maintenance alternatives to sight glasses and other level indicators. They provide long Distance level indication while reducing leak points and fugitive emissions.

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 or over the period of time become so dirty that they are not visible.



Rollers/Flaps Version

## How It Works..?

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 series of bicolor flappers. WHITE on front side and contrasting RED on the reverse. These flappers rotate corresponding to float movement, thus changing their color 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.

## Application Area

Liquified Gases, Lube/Crude Oil, Dye Liquor, HCL, H<sub>2</sub>SO<sub>4</sub>, Phosphoric Acid, Ammonia, Freon, Therminol, Solvent, Refrigerant, Dowtherm, Gasoline & NaOH.

## Materials of Construction

Float Chamber and Float: SS316 Stainless Steel

Calibrated Scale: White Powder Coated AL/SS

Rotating Flappers: Ceramic

Process Connection: 1/2" or 3/4" SS 316 Flange

## Disadvantages of Glass Sight Gauge

A magnetic level indicator is often used in applications where a glass sight gauge is unsafe, environmentally risky, or difficult to see. Typical shortcomings of sight glass gauges include:

- High pressures, extreme temperatures, and toxic or corrosive materials may cause a risk of fugitive emission of dangerous substances.
- Some chemical materials within a process vessel or storage tank can attack the glass, causing discoloration of the sight gauge, thus decreasing level visibility.
- Liquid-liquid interfaces can be very difficult to read in a sight glass particularly if the fluids are of similar color. Clear liquids are also difficult to see in a sight glass.

## Advantages of Shandilya's Magnetic Level Indicator:

- Easy to install, no extra piping required in most applications
- Visual level indication to 100 ft (30 m)
- No process liquid in contact with indicator glass
- Ideal for high-temperature, high-pressure and corrosive applications.
- No moving parts, no calibration.
- Best fit for chamber applications and ideal for replacing older technologies.
- Working Temp: 200°C, Working Pressure: Upto 40Kg/cm<sup>2</sup>