

MAGNETIC LEVEL INDICATOR

Description :

Magnetic Level Indicator provides clear high quality indication, are principally designed as an alternative to glass level gauges. Magnetic level indicator is available in Top and Side mounted construction.

Magnetic Level Gauge consists of three major components: Float chamber, Float and Indicator system. The visual indicator is available in two types Follower Capsule and Bi-Colour Rollers.

Magnetic Level Gauge operates on principles of magnetic field coupling, to provide fluid level information. Float chamber is typically constructed with non magnetic pipe having process connection that matches to the vessel connections. Float size and weight is determined by the process fluid, pressure, temperature and the specific gravity of process fluid. Float contains magnets to provide 360° magnetic flux field.

Simple non magnetic pipe with flange allows a magnet connected to the Float move up and down inside the tube. An external Bi-Colour Roller channel or Follower Capsules indicates the level based on magnet position.

Features

Bi-Colour Roller Design:

Indicator system consists of Bi-Colour Rollers equipped with magnets mounted on rail inside the housing. As the level starts rising or falling magnetic Float also travels with liquid level in non magnetic chamber. The magnetic interaction between magnets in Float and Bi-Colour Rollers causes each roller to rotate 180°.

Capsule Design:

Indicator system consists of colour Follower Capsule which moves in glass tube inside the housing. As the level starts rising or falling magnetic Float also travels with liquid level in non magnetic chamber. The magnetic interaction between magnets in Float and Capsule causes Capsule to travel along with magnetic Float.

For application where high and low electrical signals are required we offer adjustable limit switch assemblies.

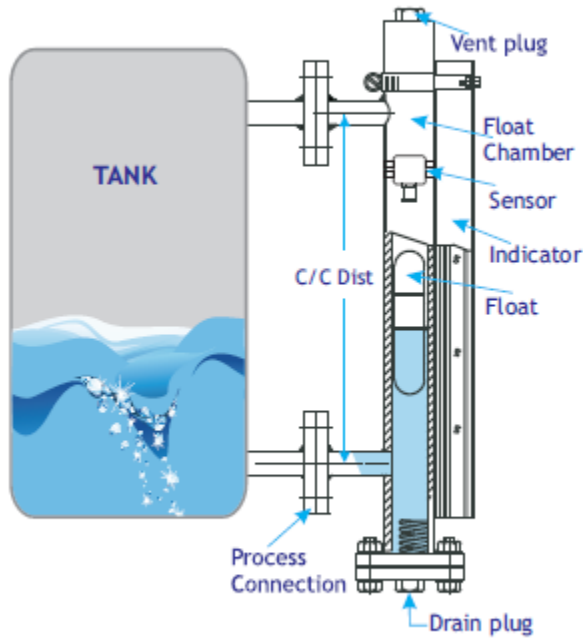
Application

Suitable for aggressive, combustible, toxic, high pressure & high temperature liquid storage tanks. It is most reliable & safe for hazardous application like LPG, Oleum, Chlorosulfuric Acid, Nitrous Acid, Solvents like Benzene, Toluene.

It is useful for all types of Acids, Alkalis, Solvents, Oils & Edible Oils.



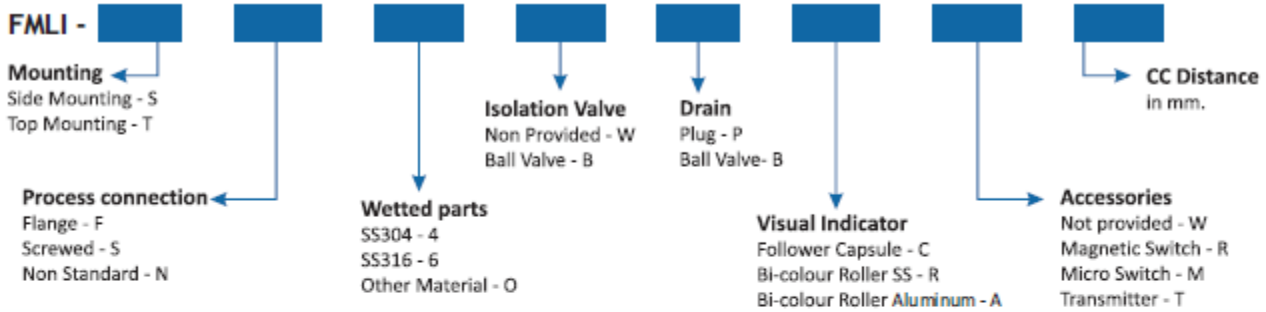
Schematic Diagram



Specifications

Mounting Type	: Top / Side
Indicator System	: Bi-colour Roller/Follower Capsule
Housing for Indicator	: Bi-colour Roller -SS Housing Follower Capsule - Glass Tube in Aluminium / SS Housing
MOC of Indicator	: SS 304
Float Chamber	: 50NB Non Magnetic Standard pipe
MOC of Float Chamber	: SS 304, SS 316, SS 316L, PP, PVDF, Others on request
Float	: SS 304, SS 316, SS 316L, PP, PVDF, Others on request
Scale	: Aluminium / SS / Acrylic engraved in mm
Process Connection	: Flanged in various sizes
Vent	: 1/2" Plugged / 1/2" Ball Valve
Drain	: 1/2" Plugged / 1/2" Ball Valve

Ordering Information



Accessories Option

Not provided	W
Magnetic Reed Switch 24 V DC 700mA reed switch housing	R · Epoxy potted - A · Aluminium die cast weatherproof - B · Aluminium die cast Ex-proof suitable for group IIA, IIB - C
Micro Switch Snap acting 1 SPDT Micro Switch 5A, 230VAC	M · Aluminium die cast weatherproof - B · Aluminium die cast Ex-proof suitable for group IIA, IIB - C
No. of switches	· 1 to 4

Transmitter	T
A. Enclosure	· Weather proof - WP · Explosion proof - EP · Special enclosure - SP
B. Resolution	: 5 mm - 5 10 mm - 10
C. Output	· 2 wire 4-20mA - I · 3 wire 0-10 V - V

Note : If you select any accessories kindly mention along with ordering information