



Working Principle & Operation

Magnetic level gauge consists float containing properly centered special magnet, has greater magnetizing force than the outside mounted flapper magnet of the indicator system. Attached to the chamber is a series of bi-colored flapper each containing magnet. As the liquid rise in the tank or vessel the same level comes in float chamber, due to buoyancy force flow starts moving within the chamber, which cause bi-colored flapper flip to the opposite sides or 180°, providing a visual display of the liquid and protects against the false actuation.

Special Features

- Enhanced protection due to metallic chamber
- Can be used for the level measurement for the atmospheric & pressurized condition
- Better reliability at high temperature & pressure
- Clear visibility of level for longer duration
- Easy to set contacts at different desired levels (optional)
- Transmitter output 4 - 20 mA (optional)

Applications

- Processing tanks & under ground tanks
- Custody transfer
- Pharmaceutical & beverage plants
- Chemical & fertilizer plant

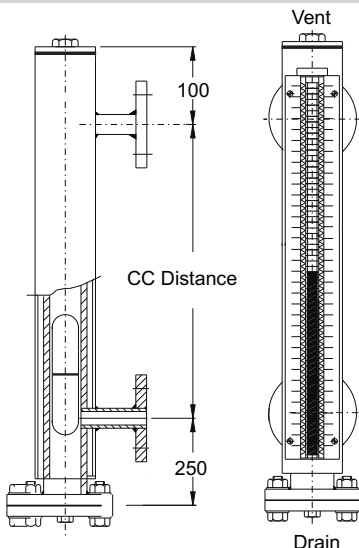
Specifications

Standard Version:

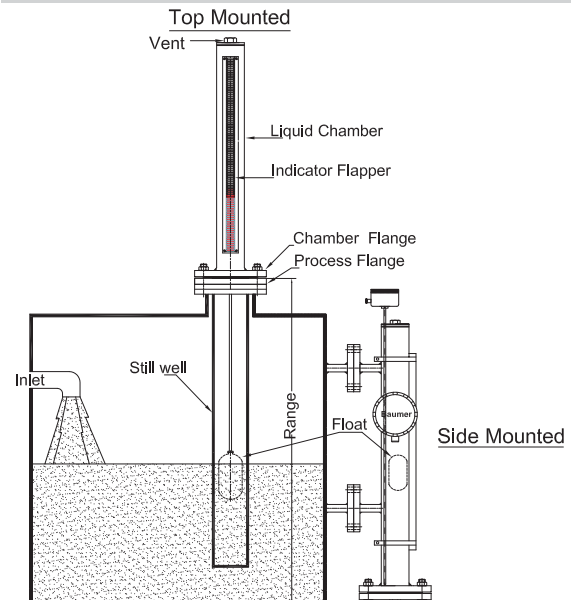
Mounting	: Top or Side
Top side vent	: Welded flat top with Plug
Bottom side drain	: Dual Flange & Plug (for Side Mounted) / Flange (for Top Mounted)
Process connection	: Flanged or Screwed
C-C distance (+3 mm)	: 300 to 6000 mm
Flag display length (L)	: 300 to 6000 mm
Flag color	: White & Red
Scale material	: Aluminum
Max. Operating pressure	: 10 kg/cm ²

Max. Operating temperature Chamber	: -20 to 150°C
Float	: AISI 316 SS
Indicator roller	: Metallic
Specific gravity	: 0.75 (Min.)

Dimensions - (Standard Version)



Mounting Type - Top or Side



Note : Drawings are not to scale. All Dimensions are in mm

How To Order		Example			
Basic Model		LD			
Mounting					
T Top	S Side	X			
Wetted Parts (# For option code 11 & 12 - Titanium float)					
4 Float / Chamber / Process Connection	10 Float / Chamber / Process Connection - AISI 316L SS	X			
6 Float / Chamber / Process Connection - AISI 316 SS	5 Float / Chamber / Process Connection - Polypropylene	OR			
11 Chamber / Process Connection - Incoloy	12 Chamber / Process Connection - Monel #	XX			
Temperature Range (*For option code 5)					
T1 0 to 80°C*	T2 -20 to 120°C (Standard)	T3 -20 to 400°C	XX		
Pressure Range (*For option code 5) (# For option code P5 - Titanium float)					
P1 0 to 3 kg/cm ² *	P2 0 to 10 kg/cm ² (Standard)	P3 0 to 25 kg/cm ²	P4 0 to 50 kg/cm ²	P5 0 to 110 kg/cm ² #	XX
Gasket					
F CAF (Standard)	P PTFE	G Graphoil			X
Top Side Vent					
F Welded Flat Top+Plug - 1/2" NPT (M) (Std)	I Welded Flat Top + Valve - 1/2" NPT (F)	C Customized Design (Non - Standard)			X
Bottom Side Drain					
K Dual Flange + Plug - 1/2"NPT (M) (Standard)	N Dual Flange + Valve - 1/2" NPT (M)				X
T Single Flanged (for Top Mounted)	C Customized Design (Non - Standard)				
Process Connection					
Screwed Connections		Flanged Connections(As per ANSI B 16.5)			
4NM 1/2" NPT (M)	4BM 1/2" BSP (M)	B09 1/2" 150# RF	B22 1" 300# RF	B41 2" 600# RF	
4NF 1/2" NPT (F)	4BF 1/2" BSP (F)	B10 1/2" 300# RF	B23 1" 600# RF	B51 3" 150# RF	
5NM 3/4" NPT (M)	5BM 3/4" BSP (M)	B11 1/2" 600# RF	B33 1 1/2" 150# RF	B52 3" 300# RF	XXX
5NF 3/4" NPT (F)	5BF 3/4" BSP (F)	B15 3/4" 150# RF	B34 1 1/2" 300# RF	B53 3" 600# RF	
6NM 1"NPT (M)	6BM 1"BSP (M)	B16 3/4" 300# RF	B35 1 1/2" 600# RF	C33 4" 150# RF*	
6NF 1"NPT (F)	6BF 1"BSP (F)	B17 3/4" 600# RF	B39 2" 150# RF	C34 4" 300# RF*	
C Customized Design (Non - Standard)		B21 1" 150# RF	B40 2" 300# RF	C35 4" 600# RF*	
Note : Screwed connection is applicable for Side Mounting only.		* For Top Mounting option			
Center To Center Distance					
Please specify in mm (e.g. Write 800 for 800 mm Center to Center Distance)		800 mm			
Material Of Scale					
A Aluminum (Standard)	S AISI 304 SS	C Acrylic	L AISI 316 SS		X
Flag Color					
RW White & Red (Standard)	BW White & Blue				XX
Options					
No. of Magnetic Switches					
1 One	2 Two	3 Three	4 Four		X
Magnetic Switch with Housing					
A SPST (Reed Switch, 1A 230 VAC)	C SPDT (Micro Switch , Ex-proof IP66, 3A 230 VAC)				X
B SPDT (Micro Switch , WP IP65 Housing, 3A 230 VAC)					
Transmitter					
LT Transmitter With 4-20 mA Output					X
Still Well (for Top Mounting)					
WC Still Well - Carbon Steel	WS Still Well - AISI 304 SS	WL Still Well - AISI SS 316			XX
Option					
For non standard products/optional items, please contact factory for delivery and minimum quantity of order.					
IV Isolation Valve	MF Matching Flange	SX SS Tag Plate	GH Material Test Certificates **		XX
**Material test certificates will be provided for wetted parts only with chemical composition testing.					
For others, please consult factory.					
Ordering Example: LD . X . X OR XX . XX . XX . X . X . X . XXX . 800 mm . X . XX . X . X . XX . XX					
Ordering Information: Specify model no., Liquid, Specific Gravity, Operating Pressure & Operating Temperature.					
Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing . Modifications may take place and materials specified may be replaced by others without prior notice.					