Globe United

MAGNETIC LEVEL GAUGE

MODEL ILG

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Overview

Magnetic Level Gauges have been a choice method of Level measurement for End Users across the world. The inherent design of the device offers options for level measurement in high pressure, extreme temperature and corrosive environments. The magnetic level indicator is attached to the vessel and connects directly with the fluid to be measured.

Operating Principle

When the process liquid raise 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.

Salient features

- Reliable for measuring level in high pressure, high temperature or corrosive applications.
- Contrasting indicator colours provide better visibility for operators.
- Floats can be coupled with magnetically operated switches and transmitters.
- Custom weighted magnetic float.
- Easy installation and maintenance-free.
- Leak proof design.
- Transmitter or switches can be installed optionally.

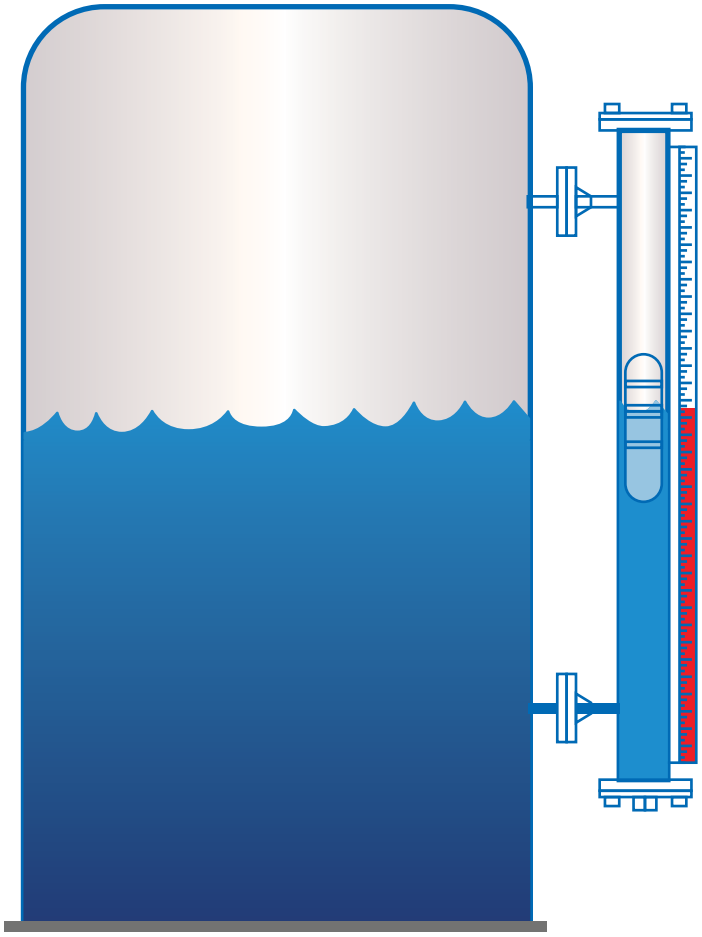
Specifications

Mounting	Side-Side
Indicator	Bi-Color Flags
Top Side Vent	Welded top cap with Plug, Other options available
Bottom Side Drain	Dual Flange & Plug (for Side Mounted)
Process Connection	Flanged or Screwed
C-C Distance (+3 mm)	300 to 6000 mm; as per requirement
Flag Display Length (L)	300 to 6000 mm; as per requirement
Flag Color	Red & White; other options available
Scale Material	Stainless Steel
Maximum Operating Pressure	Max. 100 kg/cm²
Temperature Range	(-)20 to 150°C (240°C optional)
Chamber	AISI 316 SS, Inconel, Hastelloy, 6Mo, PVDF
Float	AISI 316 SS, Titanium
Indicator Roller	Metallic
Certificates	3.1 MTC/ NACE, DP Test Report, Hydro Test Report, Functional Test Report available on request

Applications

- Storage Tanks
- Pharmaceutical & beverage plants
- Custody transfer
- Oil & Gas, Chemical & fertilizer plants

Diagram: Schematic Version



Magnetic Float

The most important element in the level indicator is Magnetic Float. Magnetic Float can be made of SS316, Titanium etc. based on the design, Density of the fluid, Volume displacement, Process temperature & pressure.

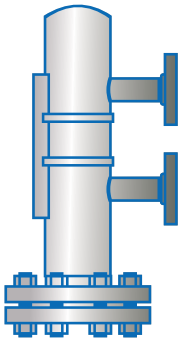
Flapper

Flapper used in indicator system is Bi-color & mounted on the rail inside the assembly. Each of the coloured flaps contains a small magnet which rotates through 180 degree when passed by the magnet within the float.

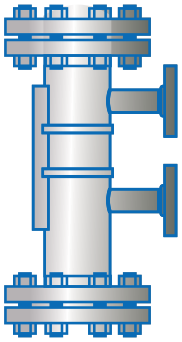
Ordering Information

Model Code: ILG - | X_1 | X_2 | X_3 | X_4 | X_5 | X_6 | X_7 | X_8 | X_9 | X_{10} | X_{11} | X_{12} | X_{13} |

Mounting			X_1
Chamber Top	**Chamber Bottom**	**Mounting**	-
Welded end cap	Flange	Side / Side	1
Flange	Flange	Side / Side	2



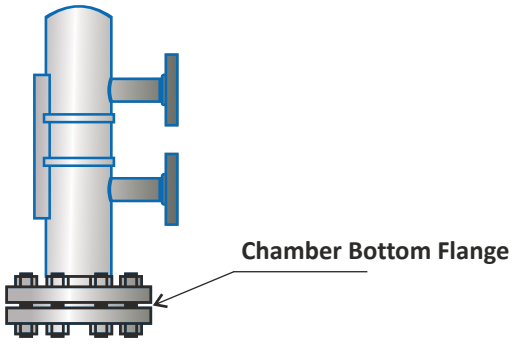
X_1 (Option 1)



X_1 (Option 2)

Chamber MOC	X_2
316/316L stainless steel chamber	A
SS 316/316L Chamber with CS Flange & fittings	B
PVDF	C
CPVC	D
Inconel 625	E
Inconel 825	F
Monel	G
Hastelloy C-276	H
6 MO	I

Chamber Bottom Flange	X_3
Slip on Style	SO
Weld Neck	WN
Socket Weld	SW
RTJ Weld Neck	RWN
Threaded	TH



Chamber Bottom Flange Rating (ASME)	X_4
150#	A
300#	B
600#	C
900#	D
1500#	E
2500#	F
Chamber Bottom Flange Rating (EN Standard)	**X_4**
PN16	1
PN25	2
PN40	3
PN63	4
PN100	5
PN160	6
PN250	7

Process Connection Type (ASME)	X_5
Slip on Flange	SO
Weld Neck Flange	WN
Socket Weld Flange	SW
RTJ Weld Neck Flange	RWN
Threaded Flange	TH
Process Connection Type (Threaded/ Screwed)	**X_5**
Threaded NPT-M (Male)	M
Threaded NPT-F (Female)	N
Socket Weld	O
Pipe Nipple Butt Weld End	R

Process Connection Size (ASME)	X_6
1/2"	A
3/4"	B
1"	C
1½”	D
2"	E
2½”	F
3"	G
Process Connection Size (EN Standard)	**X_6**
DN 15	1
DN 20	2
DN 25	3
DN 40	4
DN 50	5
DN 65	6
DN 80	7

Model Code: ILG - | X_1 | X_2 | X_3 | X_4 | X_5 | X_6 | X_7 | X_8 | X_9 | X_{10} | X_{11} | X_{12} | X_{13} |

Vent Type (ASME)	X_7
Butt weld end	BW
RF slip-on flange	SO
RF weld neck flange	WN
RJ weld neck flange	RWN
Threaded flange	TH

Vent Size (ASME)	X_8
1/2"	A
3/4"	B
1"	C
1½"	D
2"	E
Vent Size (EN Standard)	**X_8**
DN 15	1
DN 20	2
DN 25	3
DN 40	4
DN 50	5

Drain Type (ASME)	X_9
RF Slip On Flange	SO
RF Weld Neck Flange	WN
RJ Weld Neck Flange	EWN
Threaded Flange	TH

Drain Size (ASME)	X_{10}
1/2"	A
3/4"	B
1"	C
1½"	D
2"	E
Drain Size (EN Standard)	**X_9**
DN 15	1
DN 20	2
DN 25	3
DN 40	4
DN 50	5

C-C Distance	X_{11}
Specify Distance in mm	XXXX

Scale MOC	X_{12}
SS316L	SSL

Flag Color	X_{13}
Red & White (Standard)	RW
Yellow & White	YW
Yellow & Black	YB

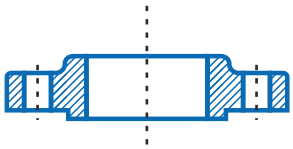
How To Order

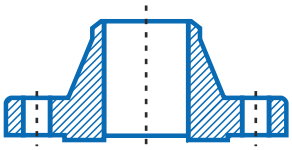
ILG - 1 - A - SO - A - SO - A - BW - A - SO - A - 1000 - SS - RW
1: Chamber Top: Welded end cap; Chamber Bottom: Flange; Mounting: Side / Side
A: Chamber MOC: 316/316L stainless steel chamber
SO: Chamber Flange Style (ASME): Slip on Style
A: Chamber Flange Rating (ASME): 150#
SO: Process Connection Type (ASME): Slip on Flange
A: Process Connection Size (ASME): 1/2"
BW: Vent Type (ASME): Butt weld end
A: Vent Size (ASME): 1/2"
SO: Drain Type (ASME): RF Slip On Flange
A: Drain Size (ASME): 1/2"
1000: C-C Distance: 1000mm
SS: Scale MOC: SS316L
RW: Flag Color: Red & White (Standard)

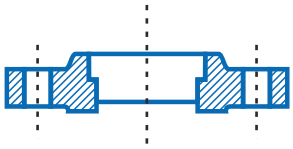
Optional Accessories

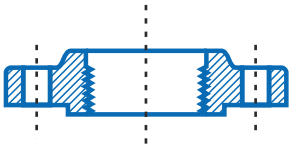
Switch	Bistable Micro Switch
Enclosure	Epoxy Coated Cast Aluminium
Protection	Water Proof, IP 66
Cable Entry	PG 13.5 [1/2" NPT, M20x1.5 available as options]
Switch Type	1 SPDT
Switch Rating	5A, 230 VAC
Mounting	Clamped on the Level Gauge Chamber

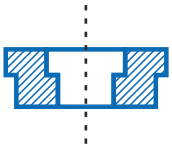
Drawing: Process Connection

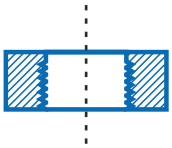
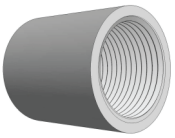
Slip-On Flange	
	
CAD Image	Actual Image

Weld Neck Flange	
	
CAD Image	Actual Image

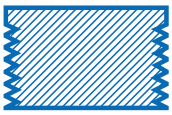
Socket Weld Flange	
	
CAD Image	Actual Image

Threaded Flange	
	
CAD Image	Actual Image

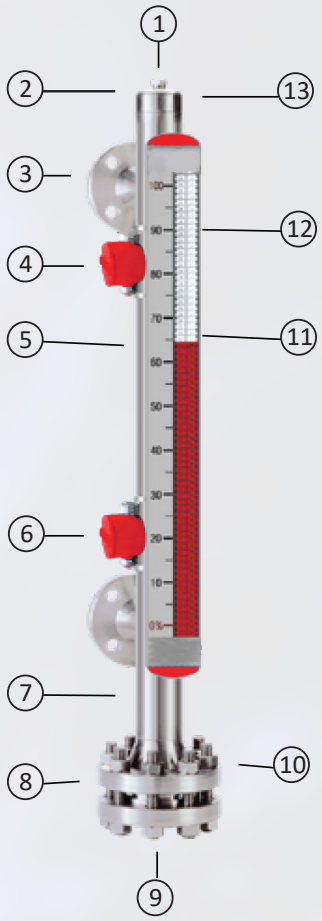
Socket Weld	
	
CAD Image	Actual Image

Threaded NPT- Female	
	
CAD Image	Actual Image

Pipe Nipple But Weld NPT	
	
CAD Image	Actual Image

Threaded NPT-Male	
	
CAD Image	Actual Image

Drawing: Standard Version



1. Vent Connection
2. Top float stop spring (standard)
3. Wide range of process connections
4. High level switch (optional)
5. 316 SS scale
6. Low level switch(optional)
7. Broad range of alloy
8. Bottom float stop spring (standard)
9. Drain Connection
10. Flange bottom
11. 316 SS indicator housing
12. Flapper style indicator
13. Welded end cap or flange top

Why Choose Us?

With our manufacturing presence in SAIF Zone, Sharjah, UAE, we are able to offer

Variety of Graded Raw Material, sourced from Europe, Japan & North America

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info@globeunitedae.com
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or scan

ILG.V0.08.0422

T5-41, Sharjah Airport International Free Zone, Sharjah, U.A.E.

info@globeunitedae.com

T: +971 65585309 | M: +971 55 9998947

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