



Magnetic Level Gauge

Level Gauge

Gauge Valve

Safety Relief Valves

Sight Flow Indicator

Chambers

Level Switches



BLISS ANAND



Our Mission Statement

To Develop, manufacturing & market, Field Instruments and Speciality Valves with innovative technology for the Global market, with extra care for customer comforts.

To Build a sustainable, profitable, human value and growth oriented socially responsible corporate through strong and effective systems, committed team and satisfied customer base.

With a modest beginning in 1975 as a trading company in Valves and Fittings, today BLISS ANAND is a leading Indian Field Instrument manufacturer and is striving to be world leader in high quality Process Instrument Products providing cost effective solutions to the customers.

The company has achieved a number of milestones in its history- thanks to the passion, dedication and team work of BLISS family.



Mr. Prem Anand
Chairman
Bliss Anand Group

A Blend of Modern technology and education with hard core human values based culture, creating a new mould of individuals forming an Organisation, entering into the Global Business arena, is a matter of pride for Bliss Anand.

We started our organisation with burning desire to cater to various needs of customer applications through innovative and cost-effective solutions. Bliss Anand has grown to global standards and is competing with developing and developed countries.

The company has achieved a number of milestones in its history- thanks to the passion, dedication and team work of our employees. Field Instrumentation in the global market is slowly shifting to developing countries, due to cost effectiveness and labour intensive processes. I perceive Bliss Anand to be a leading player in Field Instrument manufacturing.

Bliss Anand manufacturing / assembly offices worldwide
for high quality process instrumentation



USA

HOLLAND





Magnetic Level Gauge



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MAGNETIC LEVEL GAUGE

SELECTION GUIDE

	Selection	Suffix Codes							Description
A	Orientation	S							Side-Side
		T							Top
		X							Special (specify)
B	Chamber Material	AS4							304/ 304L-SS
		AS6							316 / 316L-SS
		AS8							Inconel 825
		AS3							SS321
		PP							Polupropylene
		PVDF							KYNAR (PVDF)
		PVC							PVC
X							Special (specify)		
C	Float Material	AS6							316 / 316L-SS
		T							Titanium Gr. 2
		PP							Polupropylene
		PVDF							KYNAR (PVDF)
		PVC							PVC
X							Special (specify)		
D	Connection Size/ Rating			X					Specify
E	Indicator Type					MLFA			Bi Color Flap Aluminium (400 °C.)
						MLFS			Bi Color Flap SS (400 °C)
						MLSX			Special (specify)
F	Scale						NSE		No Scale
							AS4		SS304 Scale
							AS6		SS316 Scale
							PSE		Plastic Scale
							XSM		Special Scale
G	Scale Marking							CM	CM Marking
								MM	MM Marking
								IN	Inch Marking
								CP	CM+% Marking
								MP	MM+% Marking
							X	Special	
H	Options / Accessories							JAK	Heating Jacket
								MLS	Magnetostrictive Level Sensor
								ASR	Alarm Switch with SPDT Reed Switch
								INS	Insulation
								FRS	Frost Scheild



MAGNETIC LEVEL GAUGE

ORDERING INFORMATION

The following information is required to order or request a quotation for Magnetic Level Gauges. Use the following configuration Guide to select the model number.

Required Information

1. Magnetic Level Gauge to be used for : A) Level
B) Interface Level

2. Service Liquid, please specify
A) Upper Liquid & Specific Gravity
B) Lower Liquid & Specific Gravity

3. Operating Pressure _____
Maximum Pressure _____

4. Operating Temperature _____
Maximum Temperature _____
Minimum Temperature _____

Model No. Configuration

BAM92 A/B/C/D/E/F/G/H

WORKING PRINCIPLE

Bliss Anand Magnetic Level Gauges are designed for gauging liquids where glass, gaskets, threaded connections etc. can not be tolerated because of corrosion problems, toxic gases, dangerous fluids etc, also for reading interface of similar colored liquids. Safety is assured by the ingenious design which places a float inside a sealed chamber, mounts the indicator outside this chamber and accurately shows the level by magnetically actuating the indicator... a gauge sealed against escaping gases or fluids.



MAGNETIC LEVEL GAUGE

STANDARD INDICATORS

BI - COLOR FLAP INDICATOR

Features a column of magnetic Bi-color Flaps which are generally white on one side and red on other side. The flaps are made from SS-316 with a distance of 10 mm between the axes. As the float moves up or down the bunches field of the permanent magnet mounted in its top section pulls the flaps rolls through rotation of 180 degree thus changing their colour. As the float rises, the flaps are turned from white to red and as the float falls, they are changed back to white again. The housing of this indicator is made of Aluminium & SS-316.

PRESSURE AND TEMPERATURE

Magnetic Level Gauges are available for a working pressure of 150 bar and a maximum temperature of 400°C. For higher pressure, temperature & customised specifications, please contact factory.

FLOATS

Magnetic float closed type available for a pressure of 150 bar and a maximum temperature of 400°C. For higher pressure, temperature & customised specifications, please contact factory.



MAGNETIC LEVEL GAUGE WITH BI-COLOR FLAP INDICATOR



MAGNETIC LEVEL GAUGE

LEVEL SENSOR - MAGNETOSTRICTIVE TYPE

These Magnetostrictive Level Sensors are used for continuous remote liquid level measurement and based on position monitoring of a magnetic float following the magnetostrictive principle.

The measuring process is initiated by a current impulse. This current generates an axial magnetic field along the length of a wire made of magnetostrictive material, which is held under tension inside the guide tube. The float, which sits on the liquid surface, is fitted with permanent magnets. When the pulse reaches the float the two magnetic fields interact and a torsional force results.

A torsional stress wave is induced in the wire. A piezoceramic converter in the transmitter housing at the end of the wire converts this into an electrical signal. By measuring the elapsed transit time, it is possible to determine the start point of the torsional stress wave and therefore the float position with a high degree of accuracy.

STANDARD SPECIFICATIONS

1. Operations : By the float magnet of the magnetic level gauge inside the chamber.
2. Protection : a) EEx ia intrinsic safety IP 65
b) EExd explosion proof feature-IP 65
3. Accuracy : $\pm 0.05\%$ of span (± 2 mm min)
4. Measuring Range : 3m maximum
5. Supply : 24 V dc
6. Output : 4~20 mA Two wire system.





MAGNETIC LEVEL GAUGE

STANDARD TECHNICAL SPECIFICATIONS

Cage	:	2" NB Pipe: SS-316 / 316L / Alloy 625 / Alloy 825 / 904L / UNS - 31254
Max Center to Center Dist.	:	6000mm (side / side)
Max Depth of Top Mounted	:	3000mm
Connecting Flanges	:	ANSIB16.5
Max. Viscosity	:	500 CST
Pr. Rating	:	200 bar Maximum
Max Opr. Temp.	:	400°c for SS-316 / 316L / Alloy 625 / Alloy 825 / 904L / UNS - 31254 80°c for PVDF 60°c for PP 40°c for PVC
Min Sp.GR of Service liquid	:	0.40
Min Diff in Sp Gr Between Interface Liquid	:	0.10 (less than 0.10 contact factory)



MAGNETIC LEVEL GAUGE

CALIBRATED SCALE

Stainless Steel Scale graduated in CM are standard parts of supply with the indicating assembly, other graduations & material on request.

ALARM SWITCH

Magnetically operated Alarm Switches for high and low level alarm or control can be provided with SPDT change over contact.

SPECIFICATION OF ALARMS SWITCH REED TYPE

1. Contact Element : Reed Switch
2. Switch form : SPDT Hold type
3. Contact Rating : 1AMP 30 V DC
4. Protection : EE xd II c





MAGNETIC LEVEL GAUGE

SALIENT FEATURES

1. Unpressurised Float without Mechanical or Magnetic Guide Rails.
2. 360°. Magnetic Coupling.
3. Fully Corrosion resistance system.
4. Measurement is unaffected by pressure, vacuum, temperature, foam and viscosity.
5. Min sensitivity to density variation.
6. Glandless construction.
7. Permanent Local indication without external power supply.
8. Fully adjustable limits switches.
9. Safe environment friendly and trouble free construction.
10. Indicating assembly certified to IP-66.



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