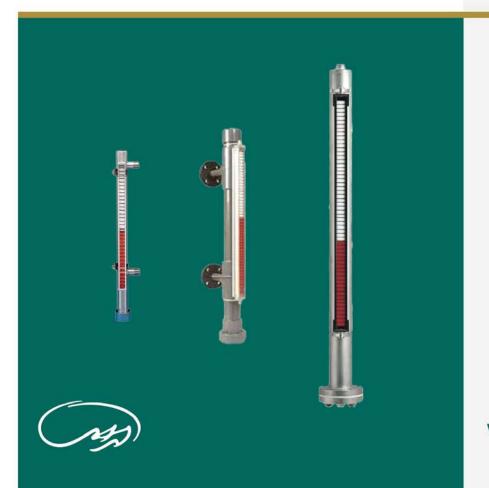


LEVEL MEASURING WITH MAGNETIC GAUGE



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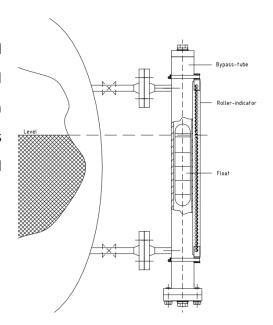


Introductions

The ARAMAK magnetic liquid level gauge used to determine the volume of liquid contained within a tank. Because the magnetic level high pressure applications and hazardous locations are protected from the danger of a chemical spill due to glass failure.

The magnetic level gauge made in 2 Type:

- 1- Economical
- 2- Heavy duty



Applications

Typical industries:

- Oil and gas production
- Petrochemical
- Chemical
- Power generation
- Water and wastewater treatment
- Food and beverage
- Pharmaceutical
- Pulp and paper
- Biotech
- Semiconductor

Typical applications:

- Oil
- Water
- High and low pressure separators
- Oil and water interface
- Acids hydrofluoric, hydrochloric, nitric, sulfuric, etc.
- Refined petrochemical gasoline, propane, butane, ethylene, etc.
- Solvents acetone, toluene, xy-

lene, naphtha

- Gas condensate
- Heat transfer fluids diathermy, thermion and glycol
- Black, green and red liquor
- Refrigerants
- Alcohols
- Caustics
- Chlorine
- Steam condensate boiler feedwater heater boiler drum level control
- Bitumen
- Vacuum tower bottoms
- Ammonia
- Liquid Sulphur
- Most liquid to liquid interfaces



Mounting Type

Side Mounted Magnetic Level Gauge

- Highly visible level indication with no process fluid in con-tact with the glass
- All construction in house by code certified welders
- Float designed and weighted for maximum accuracy
- Transmitter and switch options which can be installed, adjusted and maintained with no process interruption
- Safe for corrosive, flammable, toxic, hightemperature and high- pressure applications
- Rugged design- low or no maintenance

Top Mount Magnetic Level Gauge

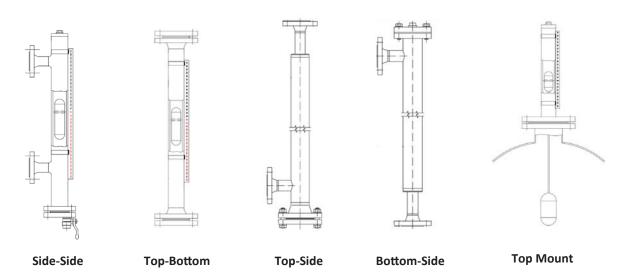
- Magnets above float connected with rod
- Slug catcher level
- Optional stilling wells
- Total or interface level measurement
- Underground tanks and sumps
- Fluids with magnetic particles
- Can be used with transmitters and switches

Corrosive/Lightweight Magnetic Level Gauge

- PVC, CPVC, Polypropylene or PVDF construction (for lightweight MLGs)
- Titanium, Monel and Hastelloy (for corrosive applications)

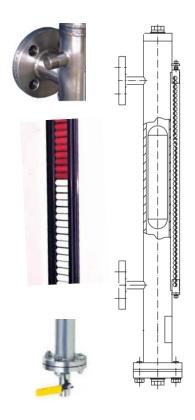
Heat Traced and High Temperature Insulation Magnetic Level Gauge

- Electrical or steam heat tracing
- Removable insulation

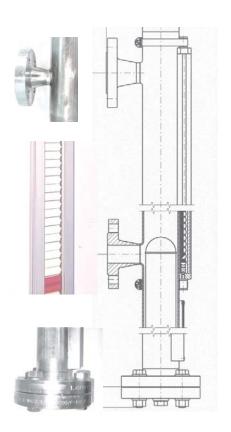




Typical Application



Economic



Standards

The magnetic level gauge made in 2 main type:

- 1- Economical
- 2- Heavy duty

Standards

- Measuring length: max. 6 m
- Operating temperature: T = -196 ... +450 °C -
- Operating pressure: P = vacuum to 200 bar
- Limit density: ρ ≥ 340 kg/m3
- Material: stainless steel 304, 316, Inconel
- Wide variety of different process connections and materials
- Explosion-protected versions
- Accuracy transducer: ±1 mm
- Option: transmitter 4 20 mA, contacts

Economic

- Measuring length: max. 6 m
- Operating temperature: T = -10 ... +180 °C -
- Operating pressure: P = vacuum to 30 bar(a)
- Material: stainless steel 304 or 316
- Limit density: $\rho \ge 340 \text{ kg/m}3$
- Accuracy transducer: ±1 mm
- Option: transmitter 4 20 mA, contacts



Accessories

Steam or electrical heat trace

Used to uniformly heat or cool process fluid Magnetic traps

Fits in line with process connection Also available in integral configuration Air purge for roller

Vibration Isolator Connections

Absorbs large amounts of vibration Eliminates signal distortion Recommended for use on compressor and pump skids

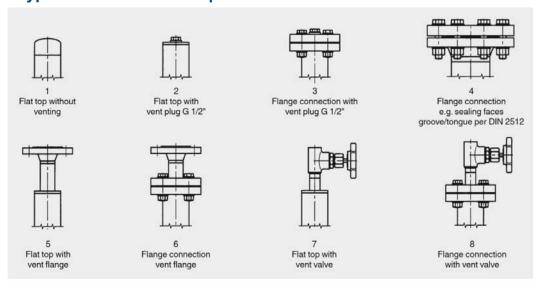
Oversized chambers

Used to uniformly heat or cool process fluid allows vapors to pass floats when a fluid is close to vapor pressure and can be used in fluids with small suspended particles. Also used in conjuction with Teflon S coating for non-stick.

High temperature insulation

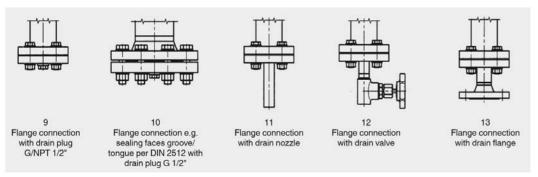
For extreme temperature environments, the ARAMAK magnetic level gauge is factory furnished/fabricated to offer high temperature insulation.

Bypass Chamber end Top



Other ends on request

Bypass Chamber end Bottom



Other ends on request



Ordering Information

XX	XX	XXXX	XX	ххх	XX	хх	ххх	ххх	XX	хх	хх	ххх	ххх	ххх
ET														
ST														
	SS													
	SB													
	ТВ													
	TM													
	ST													
		XXXX												
			I1											
			12											
			13											
			14											
			15											
			16											
				XXX										
					A1									
ANSI Class 300														
					А3									
					A4									
					A5									
					A6									
					P1									
PN 16					P2									
					Р3									
					P4									
					P5									
					P6									
					P7									
					T2									
					T4									
					T5									
I														
						I1								
						12								
	ST	SS SB TB TM ST	ST SS SB TB TM ST XXXXX	SS	ST	ST	ST	ST	ST	ST	ST	ST	SS SB TB TM TM TI TI TI TI TI TI	SS SS SS SS SS SS SS SS



Ordering Information

22 % Cr duplex	14						
Alloy 400	15						
Alloy 625	16						
Alloy 800	17						
Alloy C276	18						
PTFE	P1						
PVC	P2						
PTFE	Р3						
Polyethylene	P4						
Polypropylene	P5						
Other	P6						
Float Material							
Titanium		10					
316 / 316L stainless		11					
304 / 304 L stainless		12					
PTFE		P1					
PVC		P2					
PTFE		P3					
Polyethylene		P4					
Polypropylene		P5					
Other		P6					
Chamber End Top (Fig.)		. 0					
Flat Without End			FV0				
Flat with 1/2" vent Plug			FP1				
Flat with 3/4" vent Plug			FP2				
Flat with 1" vent Plug			FP3				
Flanged with 1/2" vent Plug			FV1				
Flanged with 3/4" vent Plug			FV2				
Flanged with 1" vent Plug		FV3					
High pressure Flanged		HV1					
Flat top with vent Flanged			FF1				
Flanged top with vent Flanged			FF1				
Flat Top with 1/2" vent valve			PP1				
Flat Top with 3/4" vent valve			PP2				
Flat Top with 1" vent valve			PP3				
Flange Top with 1/2" vent valve			PF1				
Flange Top with 3/4" vent valve			PF2				
Flange Top with 1" vent valve			PF3				
Other			PP0				
Chamber End Bottom (Fig.)							
Flanged with 1/2" Drain Plug		FV0					
Flanged with 3/4" Drain Plug							
Flanged with 1" Drain Plug							
High pressure Flanged							
Flanged Bottom with Drain							
Flanged				FV1			



Ordering Information

Flange Bottom with 1/2" vent valve	FV3					
Other	PP0					
Transmitter						
Not Applicable		10				
4-20 mA , 24 VDC, Loop powered		l1				
4-20 mA HART , 24 VDC, Loop powered		12				
4-20 mA HART, Exia, 24 VDC, Loop powered		13				
4-20 mA Exd , 24 VDC, Loop powered		14				
4-20 mA HART, Exd , 24 VDC, Loop powered		15				
Other		16				
Switch						
Not Applicable			S1			
1 SPST, Reed switch, 1A @ 24VDC			S2			
1 SPDT, Reed switch, 1A @ 24VDC			S3			
2 SPST, Reed switch, 1A @ 24VDC			S4			
2 SPDT, Reed switch, 1A @ 24VDC			S5			
1 SPDT, SNAP Action, 4A @ 24VDC			S6			
2 SPDT, SNAP Action, 4A @ 24VDC			S7			
1 SPST, Reed switch, 1A @ 24VDC, Ex			E1			
1 SPDT, Reed switch, 1A @ 24VDC, Ex			E2			
2 SPST, Reed switch, 1A @ 24VDC, Ex			E3			
2 SPDT, Reed switch, 1A @ 24VDC, Ex			E4			
Other			01			
Isolating Valve						
Not Applicable				0		
Gate Valve Stainless Steel				ВС		
Ball Valve Stainless Steel				BS		
Other				01		
Certification						
Material certificates					C0	
Material NACE MR0175					C1	
Material NACE MR0103					C2	
Internal Pressure Test					C3	
100% dimensional check					C4	
Hardness survey					C5	
Impact testing @ -196 °C (-320.8 °F)					C6	
Others					C7	
Added requirements						
Manufactured to customer drawing						DW
Heated or Cooling Jacket						HJ
Electrical Heat Trace						ET
External Chamber						EC
Vibration Isolator						VI
Others						ОТ



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