



LEVEL MEASURING WITH MAGNETIC GAUGE



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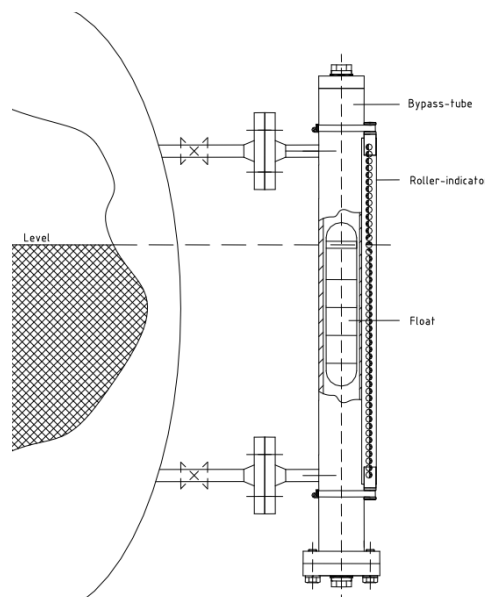


Introduction

ARAMAK magnetic liquid level gauge is employed to indicate/ measure level of process liquid in a tank or vessel. This instrument is specially used for the process applications where high pressures, high temperatures, hazardous chemicals and risk of chemical spillage due to glass failure of glass level gauges exist.

The magnetic level gauge is manufactured in 2 Types:

- 1– Economical
- 2– Standard (Heavy duty)



Applications

Typical industries:

- Oil and gas production
- Petrochemical
- Chemical
- Power generation
- Water and waste water 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 petrochemicals - gasoline,

- propane, butane, ethylene, etc.
- Solvents - acetone, toluene, xylene, 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 contact with the glass
- All construction works are done in-house by code certified welders
- Float designed and weighted for maximum accuracy
- Transmitter and switch options can be installed, adjusted and maintained with no process interruption
- Safe for corrosive, flammable, toxic, high-temperature and high pressure applications
- Rugged design; low or no maintenance

Corrosive service/Lightweight Magnetic Level Gauge

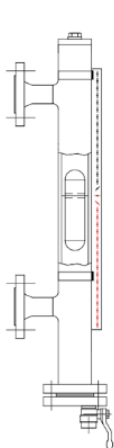
- PVC, CPVC, Polypropylene or PVDF construction (for lightweight MLGs)
- Titanium, Monel and Hastelloy (for corrosive applications)

Heat Traced and High Temperature Insulated Magnetic Level Gauge

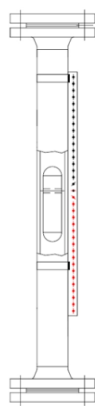
- Electrical or steam heat tracing
- Removable insulation

Top Mounted Magnetic Level Gauge

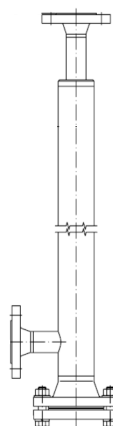
- Magnets above float connected with rod
- Slug catcher level
- Optional stilling wells
- Total or interface level measurement
- Underground tanks and sumps
- Fluids with magnetic particles
- Can be used with transmitters and switches



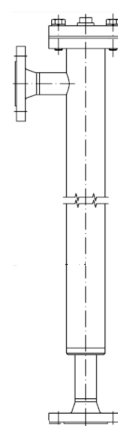
Side-Side



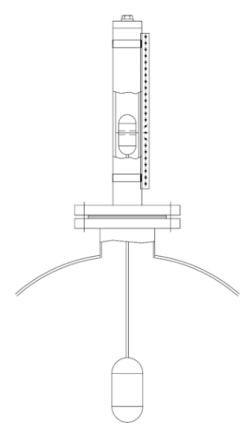
Top-Bottom



Top-Side



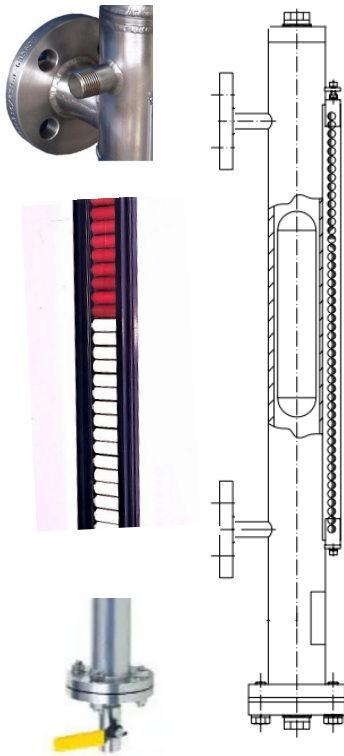
Bottom-Side



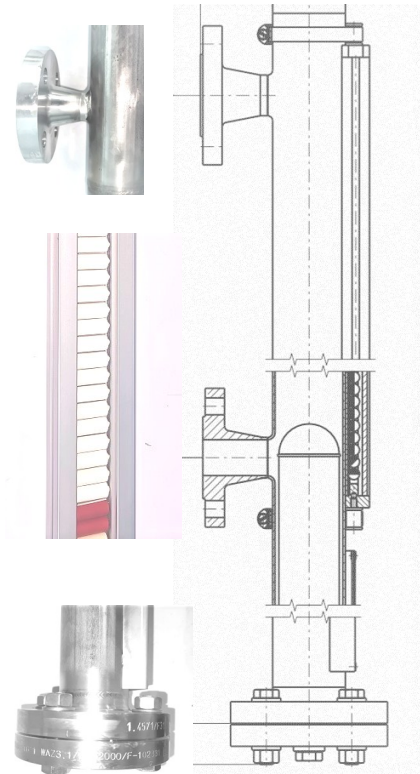
Top Mount



Typical Application



Economical



Standard

The magnetic level gauge made in 2 main types:

- 1- Economical
- 2- Standard (Heavy duty)

Standard

- Measuring length: max. 6 m
- Operating temperature: $T = -196 \dots +450 \text{ }^{\circ}\text{C}$
- Operating pressure: $P = \text{vacuum to } 200 \text{ bar}$
- Limit density: $\rho \geq 340 \text{ kg/m}^3$
- Material: stainless steel 304, 316, Inconel
- Wide variety of different process connections and materials
- Explosion-protected versions
- Accuracy transducer: $\pm 1 \text{ mm}$
- Option: transmitter 4 - 20 mA, contacts

Economical

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



Accessories

Steam or Electrical Heat Tracing

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

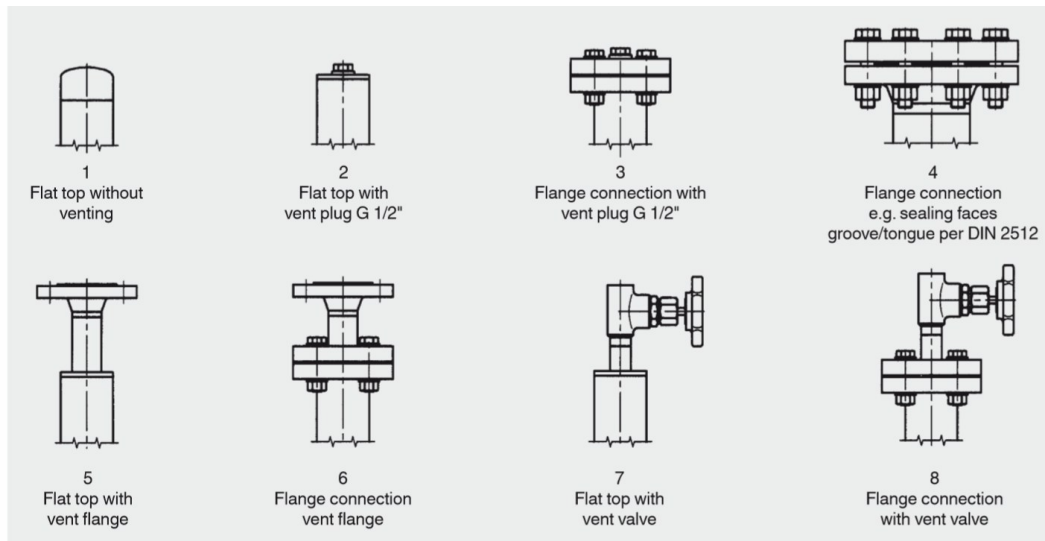
Oversized Chambers

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 conjunction with Teflon S coating for non-sticking.

High Temperature Insulation

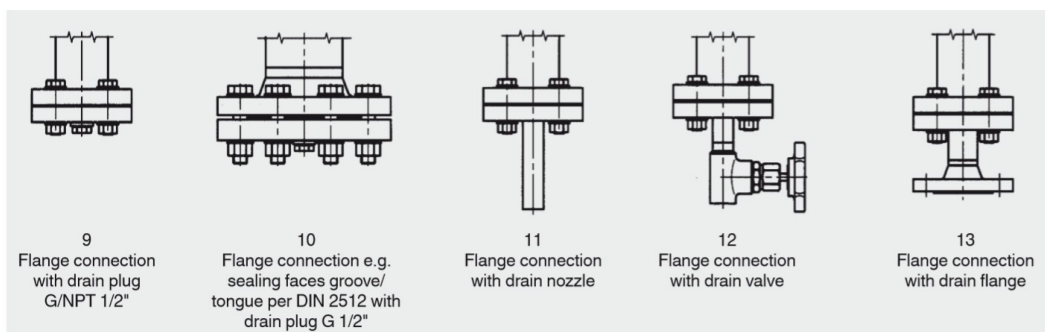
For extreme temperature environments, ARAMAK magnetic level gauge is fabricated to offer high temperature insulation.

Bypass Chamber end Top



Other ends on request

Bypass Chamber end Bottom



Other ends on request



Ordering Code Information

[Please check the order code in our website. \(Click here\)](#)



Contact us

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