FLOAT & BOARD TANK GAUGE - 'FBG'



It is an economical, easy to install for liquid level indication in bulk storage tanks under low pressure condition. It is assembled at site by the user.

Salient Features:

- Durable aluminium powder coated gauge board (white) with blackgraduations & numericals.
- Level Indication in 'cms' and accurate to 5mm.
- Option of half travel scale.
- Option of Seal pot for fuming liquids.
- Option of one or two adjustable switches with potential free contacts.

Construction & Operation:

1) **Guided**: **(Fig 1 overleaf)** It consists of a float connected to a pointer through a rope via a set of pulleys. The pointer with nylon roller guides smoothly over a calibrated gauge board, positioned parallel to the tank. The float accurately follows liquid level variations in vertical direction. The horizontal float movement is restricted by two guide wires firmly anchored to tank bottom. As such, the pointer is in `TOP POSITION' when tank is `EMPTY' and in `BOTTOM POSITION' when `FULL'. Pointer indicates 'Level'. The gauge board is supplied in 1mtr sections and multiple gauge boards are connected through gauge brackets as per ordered measuring range.

Applications: Liquid storage tanks upto 15mtrs having moderate turbulence

2) **Unguided**: Construction is similar to (1), except guide wires are not provided, as the horizontal float movement is negligible.

Applications: Liquid storage tanks upto 3mtrs having minimum turbulence

Specifications:

Construction : 1. Guided 2. Unguided

Measuring Range : Guided 7.5 mtrs. with Ø200mm float

15 mtrs. with Ø350mm float

Unguided 3mtrs. with Ø200mm float

Travel : Full or Half corresponding to range.

Least Count : 5 mm

Max Temperature : 80°C (PP) / 150°C (SS)

Max Pressure : Atm

Float : SS304/SS316/PP - \emptyset 200mm & \emptyset 350mm Float/Guide Wire Rope : SS304/SS316 x \emptyset 1.6mm (multi strand) ,

PP x Ø3mm (multi strand)

Calibrated Gauge Board : 6" wide x aluminium powder coating with black

graduations & numericals.

Pointer : Red powder coated steel with measuring rope holder

Height 60mm / 80mm for 7500 / 15000 range respectively

Protection Conduit : Vertical & horizontal limb in galvanized steel or PP pipe.

V limbs - 20NB x 285& 195mm (2 nos) H limb - 20NB x 650mm long (1 no) -

(Telescopic arrangement (optional) for metallic MOC)

Elbow pulley : Cadmium plated steel or PP pulley with PTFE bush and

ss shaft housed in weatherproof aluminium or PP enclosure.

Tensioner : Cadmium plated steel spring housed in CS or PP enclosure.

Anchor : 1. Weldable - SS304/SS316 plate (25mmx6mm thk)

2. Weighted - SS304/SS316 (Ø33mm) or (Ø50mm) for all

Rope Fasteners : SS304 / SS316 Gauge Brackets : Powder coated steel

Alarm S/W (Adjustable): Microswitch - 5A, 250VAC (SPDT) in ABS enclosure (IP65)

Seal pot

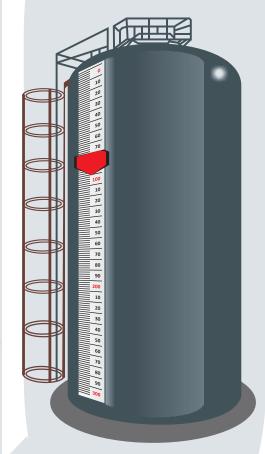
 MOC
 mmWC
 Vol. of sealant oil (our scope)

 AI
 50
 200

 CS or SS
 200
 1 Ltr

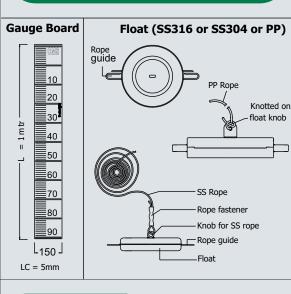
Note: PP seal pot is filled with water for fuming acidic services

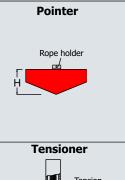


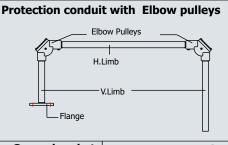


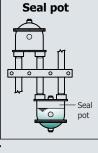
Components & Sub Assemblies

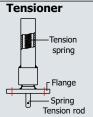


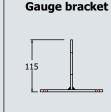


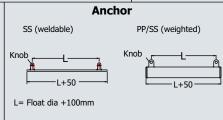




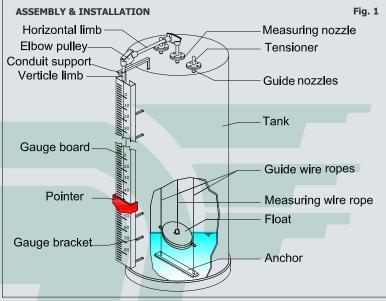


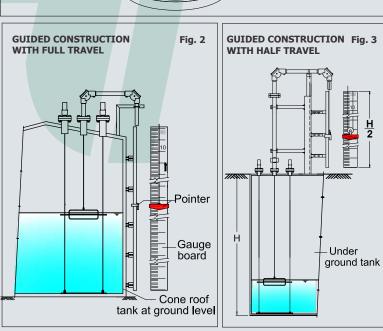






Installation

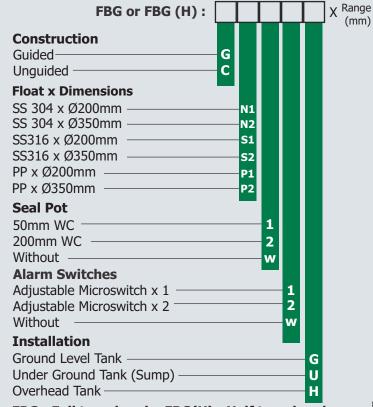




FBG can be installed on tank when empty or "in service"

Components to be fabricated by 'User' Measuring / Guide nozzle Conduit support 20NB ANSI 150 # RF 20NB, Pipe Conduit support 150 | 25 | 010x2 Nos MS Angle 010x2 Nos MS Angle 75 | 25 | 010x2 Nos MS Angle

Model Identification

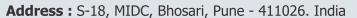


FBG: Full travel scale. FBG(H): Half travel scale

Additional Information to be provided:

Range x Service liquid x Temp. x Pressure

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Custom built specs./options available on demand. We reserve the right to modify design and specifications without prior notice.



