

Float & Board Type Level Indicator

Version 1.0

Float & Board type level gauge is a weighing liquid level measuring system applicable for non-pressurized storage tanks/vessels. It is basically a balanced counter weight system with an arrow shaped pointer which smoothen the indication process. It is suitable for most liquid application media whose specific gravity is ≥ 0.8 . Additionally, it effectively works in the phenomena of turbulence by ensuring stability using guided rope assembly with an anchor.

Principle

The working principle of Float & Board is based on the buoyancy principle. A float is connected to a pointer with the help of wire rope via an array of pulley and limb pipes along with a scale board. The pointer slides over a scale board parallel to the tank in a vertical direction. When the material level rises, the float moves upward with the application media results in a pointer goes downward and vice versa.



Features

- Better Visibility from longer distance
- Reflective radium sticker for night vision
- weatherproof powder coated scale board
- Adjustable horizontal pipe
- Efficient performance in turbulence
- Low Maintenance

Applications

It is applicable for non-vapourized & non-corrosive liquids some of which are as follows:

- Water Treatment Plant - Water, DM Water, Fire Water
- Oil Refineries - Edible Oil, Lube Oil, Diesel, Crude Oil
- Sugar Industry - Molasses
- Dairy Industry - Milk

Parts Description

The parts of Float & Board is explained in Figure 1.

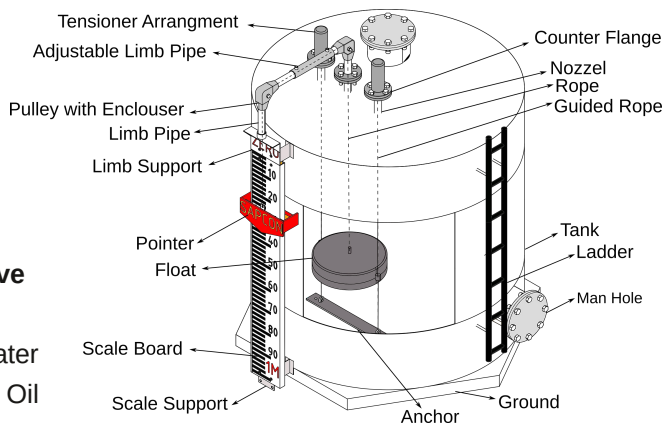


Figure 1: Description of Parts

Mechanical Specifications

Float: Size: Ø300mm x 75mm

Material: SS 316L with tested pressure 2kg/cm²

Pulley: SS 316

Pulley Enclosure: SS 304/Mild Steel with powder coated

Limb Pipe: MS powder coated/SS 304

Rope: Size: Ø2mm

Material: SS 304/SS 316

Rope Clamp: SS 304/SS 316

Tensioner Arrangement: MS/SS 304

Mounting Flange: Size: 1" to 3" ANSI Standard/ANSI with 10mm thickness
Material: Mild Steel with powder coated/SS 304

Counter Flange with Nozzle (Optional): MS/SS 304

Anchor: SS 304/SS 316

Measuring Range: Guided: Up to 20 meter
Non-guided: Up to 8 meter

Scale Board: 150mm wide pure polyester weatherproof powder coated aluminium board/SS 304

Pointer: Mild Steel with powder coated/SS 304 pointer with frictionless rollers

Scale Marking: Printed scale with black marking(cm) & reflective red radium marking(meter)

Accuracy: ±10mm

Operating Temperature: Up to 100°C

Operating Pressure: Ambient

Specific Gravity: ≥ 0.8

Product Variant

1) Common Parts

MECH ASSEMBLY

- MECH_FAB: Float and Board Level Indicator suitable for Liquids (Water, Oils, Chemicals) whose Specific Gravity ≥ 0.8

TYPE

- NG: Non Guided x Full Travel
- G: Guided x Full Travel

INSTALLATION TYPE

- GT: Ground Level Tank
- OHT: Overhead Tank x Scale Mount at Tank Level
- OHTG: Overhead Tank x Scale Mount at Ground Level
- UT: Underground Level Tank x Scale Mount at Ground Level

DISH FLOAT

- DFS7: Ø300 mm x 75 mm, SS 316L with tested pressure 2 kg/square cm

POINTER

- PRMS: MS powder coated with radium reflective stickers & PP roller for frictionless sliding on board
- PRS4: SS 304 with radium reflective stickers & PP roller for frictionless sliding on board

PULLEY WITH ENCLOSURE

- PEMS: SS 316 pulley wheel x MS Enclosure with powder coated
- PES4: SS 316 pulley wheel x SS 304 Enclosure

LIMB PIPE

- P7GI: GI x Adjustable limb pipe up to 500mm long x MS pipe support with powder coated
- P7S4: SS304 x Adjustable limb pipe up to 500 mm to 1000 mm long x SS 304 support

TENSIONER ARRANGEMENT

- TAMS: CS spring x 1" power coated flange as per ASME/ANSI B16.5 with 10mm thickness, MS & Guided Rope, SS 304
- TAS4: SS 304 spring x 1" flange as per ASME/ANSI B16.5 with 10mm thickness, SS 304 & Guided Rope, SS 316

ANCHOR

- APS6: SS 316 surface mount plate

MOUNTING

- F10MS: 1" flange as per ASME/ANSI B16.5 with 10 mm thickness, MS with powder coated
- F10S4: 1" flange as per ASME/ANSI B16.5 with 10 mm thickness, SS 304

Note: For Full Order Coding Chart, contact to our sales team.

Connect to us

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