

FLOAT & TAPE LEVEL GAUGE

MODEL
M4.06



PRODUCT DESCRIPTION

Float and tape gauges, also known as “automatic tank gauge. It works by using a large float inside the tank attached to a negator spring via a perforated tape. The negator spring provides constant tension, which balances the float on the liquid. The perforated tape engages pins on a sprocket wheel that, in turn, drives the counter assembly. Alternatively, when a gauge board is used to display level, the negator spring is replaced by a counter weight system. The liquid level in the tank is displayed on the gauge counter or indicated on the gauge board. An economical, easy to install gauge for level indication of liquids in bulk storage tanks under atmospheric condition.



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KEY FEATURES

- Easy Installation
- Float & Tape follower type
- Float & Tape gauges applicable up to 10 kg & up to 400°C
- Dial Counter Enclosure IP 65

SPECIFICATIONS

| | |
|--------------------|---|
| Mounting | : Side Mounted |
| Type | : Guided & Un- Guided |
| Tension Flanges | : Cd-plated spring in CS enclosure |
| Pulley System | : Cd Plated steel ,PTFE bush & SS shaft |
| Process Connection | : Flanged & Screwed |
| Measuring Range | : Up to 20000mm |
| Dial Size | : Min.12" |
| Least Count | : 10 mm |
| Max. Temp. | : Upto 400°C |
| Max. Pressure | : 10 kg |

APPLICATION

- Over & Underground tanks
- Custody transfer tanks
- Oil & Petroleum tanks
- Refinery
- Food
- Power
- Pharma

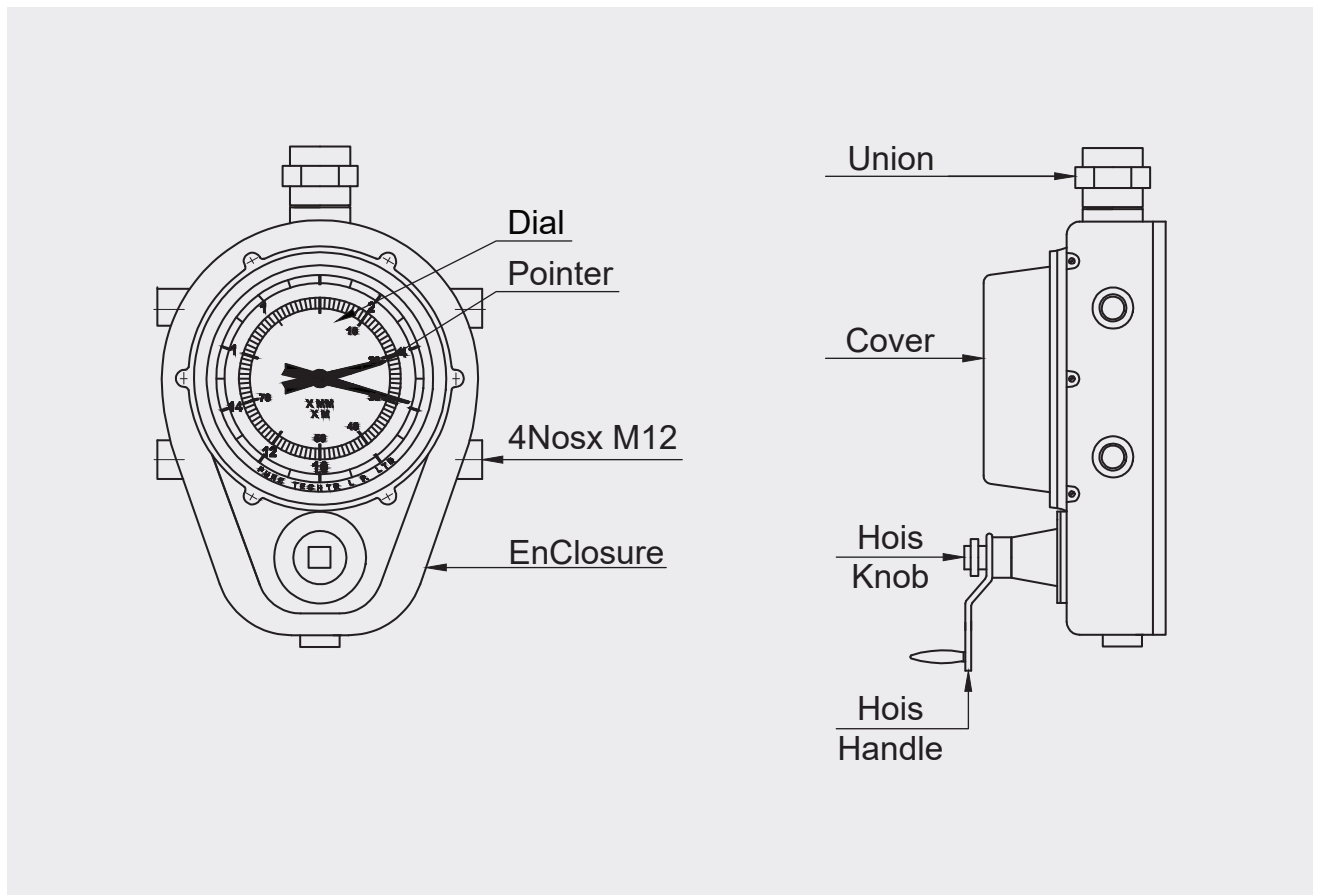
MATERIAL OF CONSTRUCTION

| | |
|-----------------|--------------------------------|
| Float | : SS 316 |
| Guide Wire Rope | : SS 316 |
| Float Wire Rope | : SS 316 |
| Scale Board | : Aluminum White powder coated |
| Scale Bracket | : Powder Coated steel |
| Protection Tube | : Galvanized pipe |
| Anchor Plate | : CS / SS304 / SS316 |
| Pointer | : Red steel powder coated |
| Pulley Housing | : Aluminum |

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DIMENSIONAL DRAWINGS



Important Notes: Above drawings are not to scale. All Dimension are in mm

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MODEL CODING & ORDERING INFORMATION

| DESCRIPTION | CODE | M4.05 | GD | SB | CS | S4 | S6 | A2 | S4 | CS | S4 | S6 | S4 | AL | MS | CS |
|-------------------------------|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Model | | | | | | | | | | | | | | | | |
| Float & Tape Type Gauge | M4.05 | M4.05 | | | | | | | | | | | | | | |
| Type | | | | | | | | | | | | | | | | |
| Guided | GD | | GD | | | | | | | | | | | | | |
| Un-Guided | UD | | | | | | | | | | | | | | | |
| Mounting | | | | | | | | | | | | | | | | |
| Side Mounted | SB | | | SB | | | | | | | | | | | | |
| Top Mounted | TB | | | | | | | | | | | | | | | |
| Flange Material | | | | | | | | | | | | | | | | |
| Carbon Steel | CS | | | | CS | | | | | | | | | | | |
| SS 304 | S4 | | | | | | | | | | | | | | | |
| SS 316 | S6 | | | | | | | | | | | | | | | |
| Polypropylene | PP | | | | | | | | | | | | | | | |
| Tension Assembly | | | | | | | | | | | | | | | | |
| Carbon Steel | CS | | | | | | | | | | | | | | | |
| SS 304 | S4 | | | | | S4 | | | | | | | | | | |
| SS 316 | S6 | | | | | | | | | | | | | | | |
| None | XX | | | | | | | | | | | | | | | |
| Float Material | | | | | | | | | | | | | | | | |
| SS 304 | S4 | | | | | | | | | | | | | | | |
| SS 316 | S6 | | | | | | | | | | | | | | | |
| Polypropylene | PP | | | | | | S6 | | | | | | | | | |
| Dial Counter Enclosure | | | | | | | | | | | | | | | | |
| Aluminum White powder coated | A2 | | | | | | | A2 | | | | | | | | |
| SS 304 | S4 | | | | | | | | | | | | | | | |
| SS 316 | S6 | | | | | | | | | | | | | | | |
| Scale Board Material | | | | | | | | | | | | | | | | |
| Aluminum White powder coated | AL | | | | | | | | | | | | | | | |
| SS 304 | S4 | | | | | | | | S4 | | | | | | | |
| SS 316 | S6 | | | | | | | | | | | | | | | |
| Scale Bracket | | | | | | | | | | | | | | | | |
| Carbon Steel | CS | | | | | | | | | CS | | | | | | |
| SS 304 | S4 | | | | | | | | | | | | | | | |
| SS 316 | S6 | | | | | | | | | | | | | | | |
| Pointer | | | | | | | | | | | | | | | | |
| Carbon Steel | CS | | | | | | | | | | | | | | | |
| SS 304 | S4 | | | | | | | | | | S4 | | | | | |
| SS 316 | S6 | | | | | | | | | | | | | | | |
| Wire Rope | | | | | | | | | | | | | | | | |
| SS 304 | S4 | | | | | | | | | | | | | | | |
| SS 316 | S6 | | | | | | | | | | | S6 | | | | |
| Polypropylene | PP | | | | | | | | | | | | | | | |
| Guide Rope | | | | | | | | | | | | | | | | |
| SS 304 | S4 | | | | | | | | | | | | S4 | | | |
| SS 316 | S6 | | | | | | | | | | | | | | | |
| Polypropylene | PP | | | | | | | | | | | | | | | |
| None | XX | | | | | | | | | | | | | | | |
| Pulley Housing | | | | | | | | | | | | | | | | |
| Aluminum | AL | | | | | | | | | | | | | AL | | |
| SS 304 | S4 | | | | | | | | | | | | | | | |
| SS 316 | S6 | | | | | | | | | | | | | | | |
| Guide Pipe | | | | | | | | | | | | | | | | |
| Mild Steel | MS | | | | | | | | | | | | | | MS | |
| Stainless Steel | SS | | | | | | | | | | | | | | | |
| Anchor Plate | | | | | | | | | | | | | | | | |
| Carbon Steel | CS | | | | | | | | | | | | | | | CS |
| SS 304 | S4 | | | | | | | | | | | | | | | |
| SS 316 | S6 | | | | | | | | | | | | | | | |

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MODEL CODING & ORDERING INFORMATION

| DESCRIPTION | CODE | XXX | X17 |
|------------------------------|------|-----|-----|
| Measuring Range | | | |
| As per Customer Requirement | XXX | XXX | |
| Other Options | | | |
| Material Test Certificate | X17 | | X17 |
| Tested to NACE Standard | X20 | | |
| SS Tag Plates | X26 | | |
| Hydrostatic Test Certificate | X97 | | |

Table -1 AS PER ANSI B 16.5

| NOMINAL SIZE | RATING/ CLASS | CODE | NOMINAL SIZE | RATING/ CLASS | CODE | NOMINAL SIZE | RATING/ CLASS | CODE | NOMINAL SIZE | RATING/ CLASS | CODE |
|--------------|---------------|------|--------------|---------------|------|--------------|---------------|------|--------------|---------------|------|
| 1/2" | 150 | B09 | 1" | 150 | B21 | 1 1/2" | 150 | B33 | 2 1/2" | 150 | B45 |
| | 300 | B10 | | 300 | B22 | | 300 | B34 | | 300 | B46 |
| | 600 | B11 | | 600 | B23 | | 600 | B35 | | 600 | B47 |
| | 900 | B12 | | 900 | B24 | | 900 | B36 | | 900 | B48 |
| | 1500 | B13 | | 1500 | B25 | | 1500 | B37 | | 1500 | B49 |
| | 2500 | B14 | | 2500 | B26 | | 2500 | B38 | | 2500 | B50 |
| 3/4" | 150 | B15 | 1 1/4" | 150 | B27 | 2" | 150 | B39 | 3" | 150 | B51 |
| | 300 | B16 | | 300 | B28 | | 300 | B40 | | 300 | B52 |
| | 600 | B17 | | 600 | B29 | | 600 | B41 | | 600 | B53 |
| | 900 | B18 | | 900 | B30 | | 900 | B42 | | 900 | B54 |
| | 1500 | B19 | | 1500 | B31 | | 1500 | B43 | | 1500 | B55 |
| | 2500 | B20 | | 2500 | B32 | | 2500 | B44 | | 2500 | B56 |

SAMPLE ORDERING CODE:

M4.05-GD.SB.CS.S4.S6.A2.S4.CS.S4.S6.S4.AL.MS.CS.XXX.X17

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and material specified may be replaced by others without prior notice.