

Float & Tape Tank Gauge - FTG

It is reliable and accurate level gauge, for continuous level indication of liquid in almost all product applications and tank types. Very commonly used for custody transfer (inventory management)

Salient Features:

- Easy to install or retrofit on existing tanks.
- High accuracy of +2mm
- Local Indicating mechanism of 2 Pointer Dial.
- Seal pot for fuming liquids (optional)
- Minimum maintenance

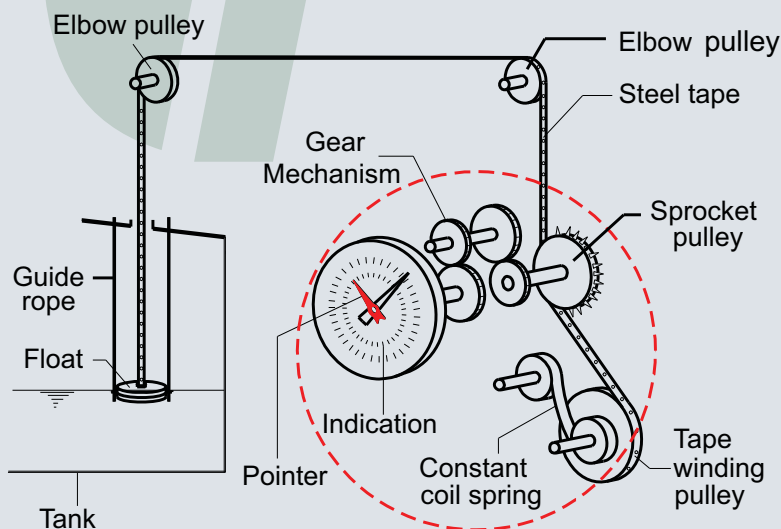
Construction & Operation

Gauge comprises of a float and an enclosure consisting of steel tape wound on storage drum, carrying constant torque spring to maintain tape under continuous tension and corresponding gear mechanism for pointer movement.

The float, attached to SS tape follows liquid level closely in vertical direction during rise in liquid and equi-spaced holes in SS tape engage with sprocket pins and get wound on a storage drum. During fall in liquid level, float weight is balanced by constant torque spring and SS tape gets unwound from sprocket pulley to follow liquid level downwards. This rotation of sprocket pulley is transferred to the pointer through gear mechanism to indicate accurate liquid level in tank.

The gauge is provided with guide ropes which have to be firmly anchored to tank bottom to restrict horizontal float movement.

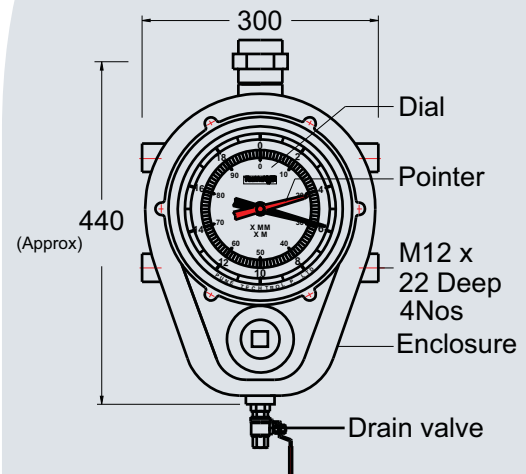
Fig. 2



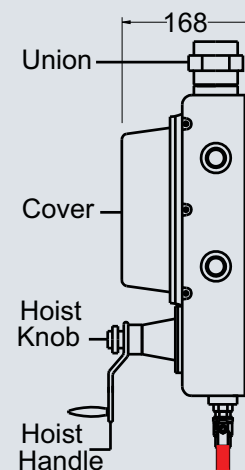
Schematic Diagram

Elevation

Fig. 1



Side view



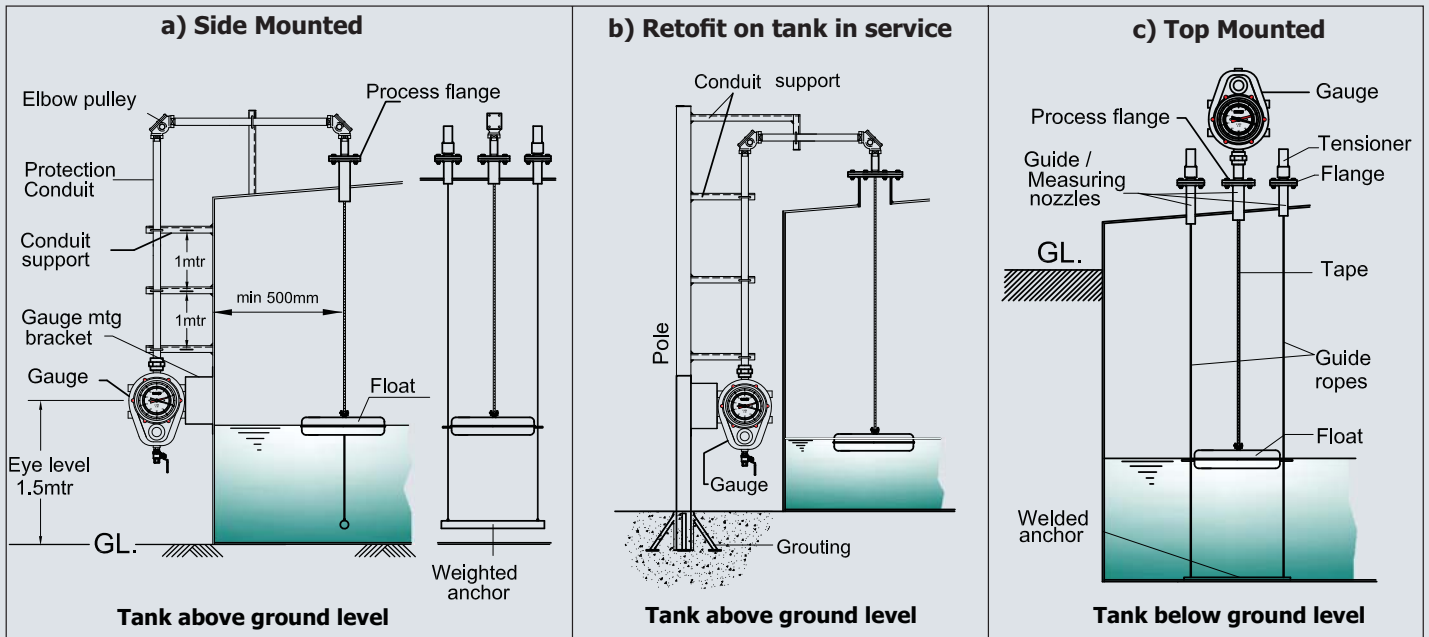
Specifications :

Measuring Ranges	: 0-4, 0-8, 0-12, 0-16, 0-20 mtrs
Accuracy	: ±2mm
Resolution	: 1mm
Min Density	: 0.8 g/cm ³
Max. Temperature	: 120 ^o C
Max. Pressure	: Atmospheric
Installation	: Side / Top
Dial Indicating Mechanism	: 2 Pointers Dial (mm & mtr indication)
Calibration Dial	: Aluminum (OD.210mm) white with graduations & numericals
Dial Cover	: Polycarbonate
Pointers	: Brass (Red Color) – mm indication, Brass (Black color) – mtrs indication
Enclosure	: Epoxy coated Cast Aluminium x IP65
Process Connection	: CS x 1-1/2"NB, ANSI flange or -1-1/2" BSP Socket
Float	: 350mm x SS316
Tape	: SS316
Guide Rope	: SS316 x Ø 1.6mm
Elbow Pulley	: Cadmium pltd steel pulley with PTFE bush and SS shaft housed in WP Cast Al. encl.
Protection Conduit (side mtd)	: 40 NB, Galvanized steel (GI) pipe, Horizontal limb=800mm,
Tensioner	: Cadmium pltd SS302 spring housed in CS enclosure
Tensioner Flange	: 3/4" NB ANSI flange (2 nos)
Anchor	: Weldable- SS316 plate (25mm x 6mm thick) Weighted-SS316 pipe(Ø33mm)
Drain	: 1/4" BSP Ball valve(side mtg) / plug (top mtg)
Gauge Mtg Bracket	: Epoxy coated CS
Seal Pot	: Aluminium / SS, provided with sealant oil
Hoist Mechanism	: Provided on demand for high viscous liquid

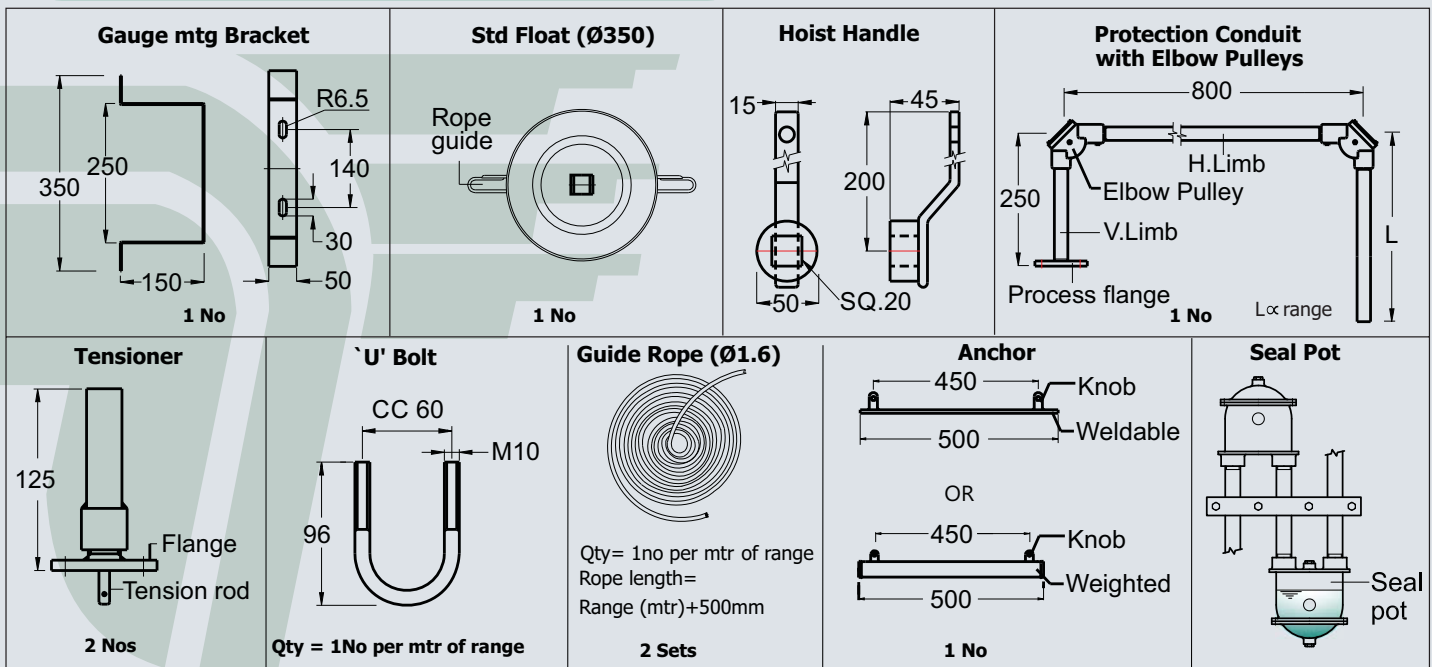
Installation Notes :

- 1.For retrofit on existing tanks/new non metallic tanks, use weighted anchor.
- 2.For existing tank, gauge body should be mounted on grouted pole (fig 3b) as its welding may not be permissible on tank.

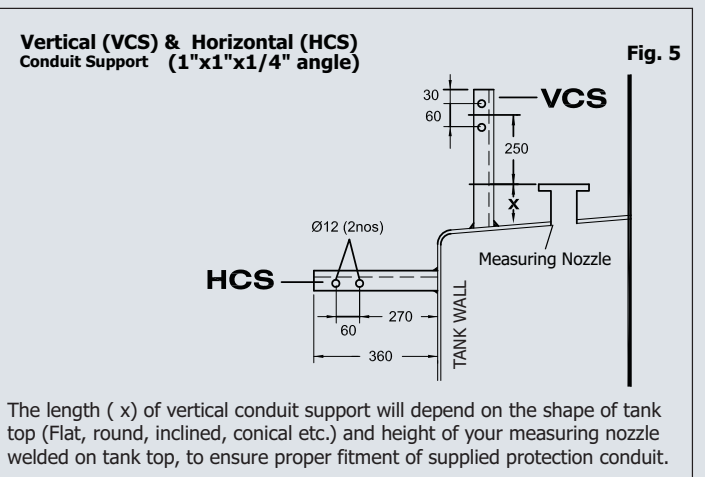
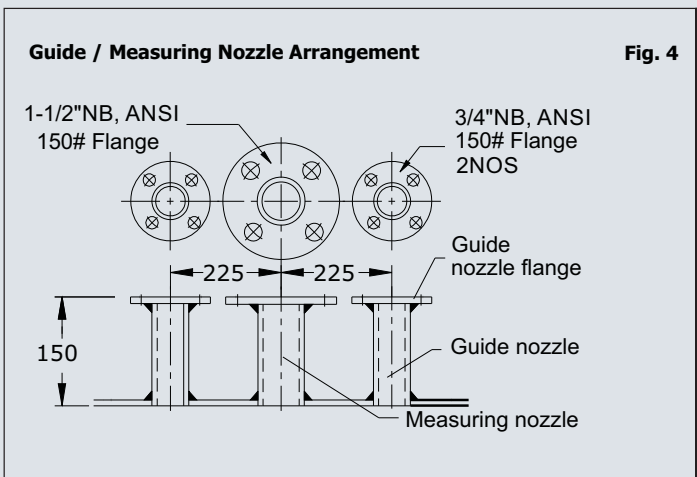
Installation : fig 3



Components and fittings supplied with gauge:



Components to be fabricated by customer(user) :



Model Identification

FTG-

Installation

Top _____
Side _____

T
S

Measuring Range

0-4m _____
0-8m _____
0-12m _____
0-16m _____
0-20m _____
Others _____

A
B
C
D
E
O

Float

Ø350mm _____
Others _____

A
O

Process Connection MOCx Size

CS x 1-1/2"NB ANSI Flange _____
CS x 1-1/2"BSP Socket (F) _____
Others _____

F
K
O

Tensioner

Without _____
Cd Pltd Spring + CS. Enclosure _____
Others _____

W
T
O

Anchor type x MOC

Without _____
Weldable SS316 _____
Weighted Ss316 _____
Others _____

W
1
2
O

Protection Conduit

Without _____
GI pipe _____
Others _____

W
G
O

Seal Pot Assy

Without _____
50mm WC _____
200mm WC _____
Others _____

W
1
2
O

Ordering Information:

Model No. along with liquid its density, Optg. temp & pressure and tank dimensions

Applications:

Water, Corrosive liquids, Hydrocarbons, Chemicals, Varnishes and other Valuable liquids

Units in mm

Pune Techtrol Pvt Ltd [CIN : U31909PN1991PTC063403]

Address : S-18, MIDC, Bhosari, Pune - 411026. India

✉ ho@punetechtrol.com ☎ +91-20-66342900 🌐 www.punetechtrol.com

Works : J-52/7, MIDC, Bhosari, Pune - 411026. India ☎ +91-20-67313600

Custom built specs./options available on demand.

We reserve the right to modify design and specifications without prior notice.



R A T E D
NSIC-CRISIL SE1A