

FLOAT & BOARD TANK GAUGE - FBG

An economical, easy to install gauge for level indication of liquids in bulk storage tanks under atmospheric condition.

Salient Features :

- ☑ Durable aluminum powder coated gauge board
- ☑ Half travel scale for underground tanks of 3 to 8mtrs height
- ☑ Sealpot for fuming liquids
- ☑ Adjustable alarm switches

Construction & Operation :

1) Guided : (Fig 1 over leaf) It consists of a float connected to a pointer through a rope via a set of pulleys. The pointer with nylon roller glides 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 in '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 board brackets as per ordered measuring range.

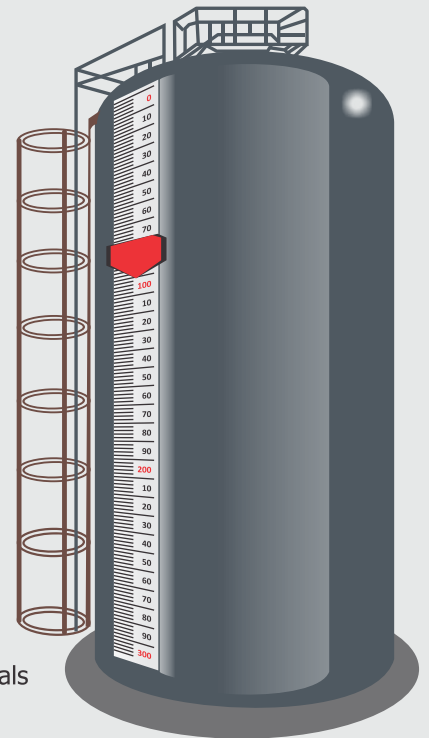
Applications : Liquid storage tanks upto 15mtrs having moderate turbulence.

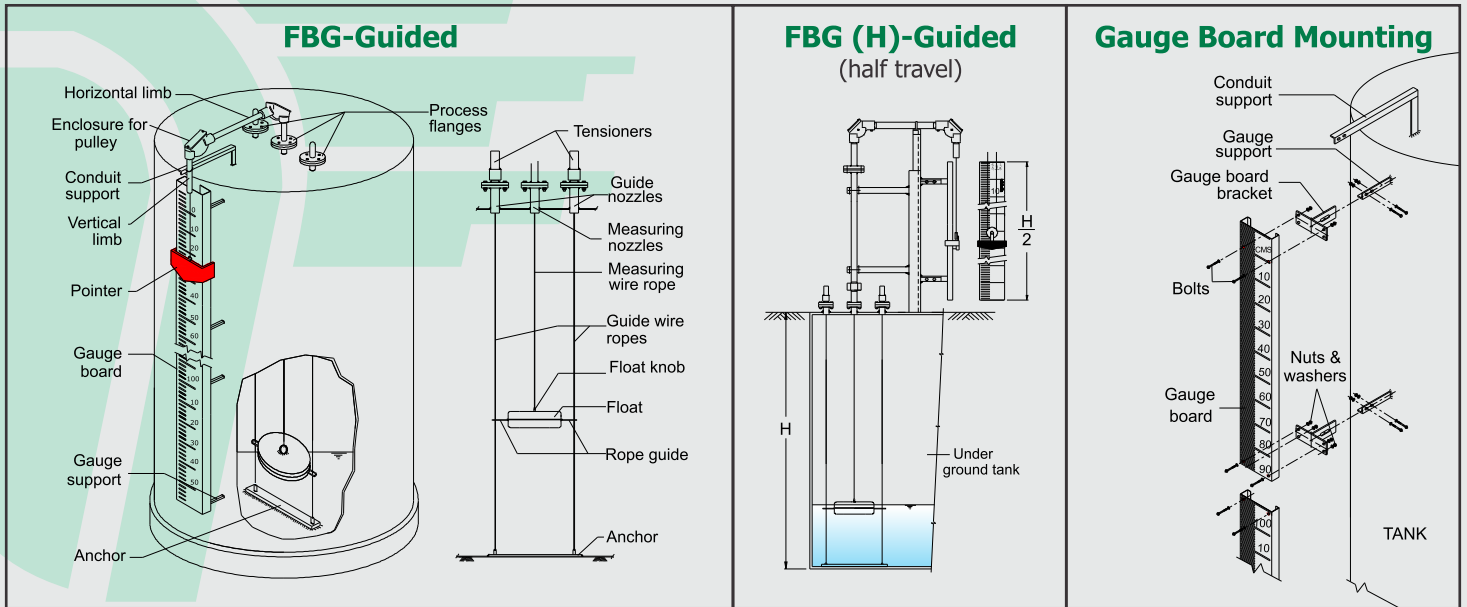
2) Unguided : Construction is similar to (1), except guide wires are not provided, as the horizontal float movement is negligible.

Applications : Liquid storage tanks upto 3mtrs having minimum turbulence.

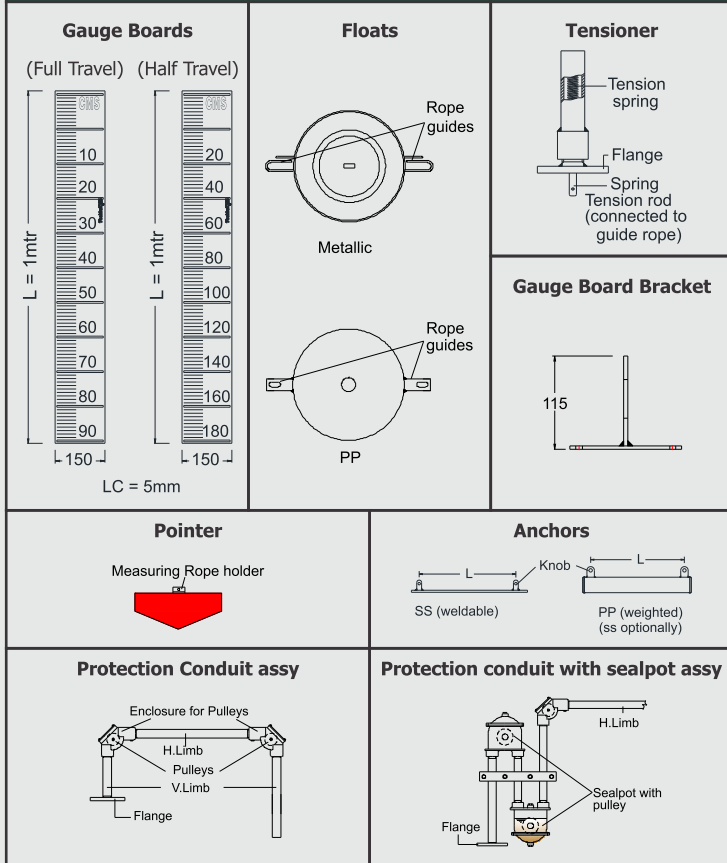
Specifications :

Construction	: Guided, Unguided
Range	: 7.5mtrs with ϕ 200 float, 15mtrs with ϕ 350 float (Guided) : 3 mtrs with ϕ 200 float (Unguided)
Min. Sp. Gr.	: 0.8
Max. Temperature	: 80°C (PP) / 150°C (SS)
Max. Pressure	: Atm
Float	: SS304/ 316/PP- ϕ 200 & ϕ 350
Float/ Guide Wire Rope	: SS304/ 316 x ϕ 1.6mm (multistrand) : PP x ϕ 3 (multistrand)
Process Connection	: MS x 20NB ANSI 150# flanges (3 nos)
Gauge Board Resolution	: 5mm
Calibrated Gauge Board	: 6" wide x Aluminum pwdr ctd. with black graduations & numerals
Pointer	: Red powder coated steel with holder Height 60 (7.5 mtrs range) or 80 (15 mtrs range)
Pointer Travel	: Full or Half
Gauge Board Markings	: Minor graduations in black at per 10cm and major at 100cm in red (34mm Ht.) Gauge board calibration can be provided in volumetric scale against OEM requirement.
Protection Conduit	: 20NB, galvanized steel or PP pipe
1) V Limbs (2 nos)	: 285mm & 195mm
2) H Limb (1 no)	: 650mm
Pulley (2 nos)	: Cadmium plated steel or PP with ptfе bush and SS shaft in WP Aluminum or PP enclosure
Tensioner	: Cadmium plated steel spring, housed in CS or PP enclosure
Anchor	1) Welded : SS 304 /316 plate, 25W x 6 Th x L (metallic tanks) 2) Weighted : SS304 / 316, 1"NB pipe x L (non metallic tanks) [L= 300 (ϕ 200 float) / 450 (ϕ 350 float)]
Rope Fasteners	: SS304 / 316
Gauge Board Brackets	: Powder coated steel
Alarm Switch (Adj.)	: Micro switch- monostable (SPDT) x WP IP65 ABS Enclosure, Switch rating - 5A, 250VAC
Sealpot	: 50mmWC - Aluminum or PVC ctd, 200mmWC - CS/SS (Metalic sealpot to be filled with silicon oil), (PVC ctd. with water for acids)

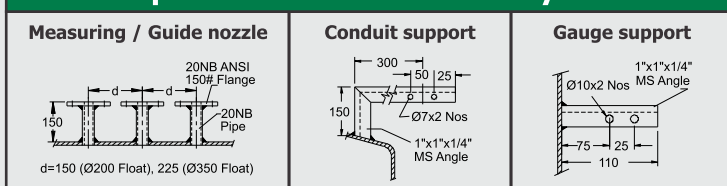




Components & Sub Assemblies Assembled at Site



Components to be fabricated by 'User'



Model Identification :

FBG (H) - Half travel	FBG OR FBG (H)	x Range (mm)
Construction		
Guided	G	
Unguided	U	
Float x Dimns.		
SS 304 x ø 200 mm	N1	
SS 304 x ø 350 mm	N2	
SS 316 x ø 200 mm	S1	
SS 316 x ø 350 mm	S2	
PP x ø 200 mm	P1	
PP x ø 350 mm	P2	
Seal pot		
Without	W	
50 mm WC	1	
200 mm WC	2	
No. of Alarm Switches		
Without	W	
One Four	1-4	
Installation		
Ground Level Tank	G	
Under Ground Tank (Sump)	U	
Overhead Tank	H	

Ordering Information :

Model No x Range x Service Liquid x Optg. Temp & Pressure

