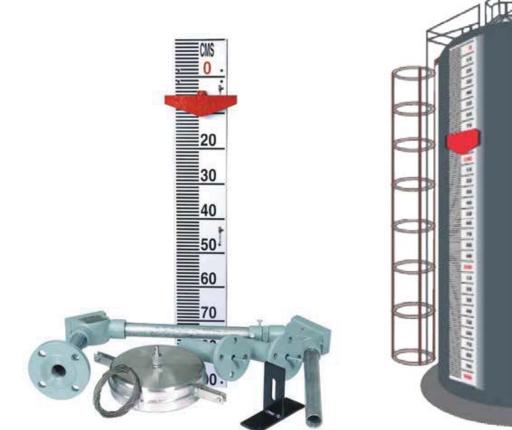
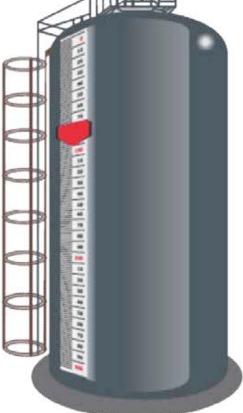


Float & Board Tank Gauge "FBG"

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





SALIENT FEATURES

- Durable aluminium powder coated gauge board
- Gauge board markings visible from distance

OPTIONS

- SS304, SS316, PP or ECTFE coated SS to suit various liquids
- Half travel gauge board for underground tanks
- Seal pot for fuming liquids
- Adjustable alarm switches (max 4)
- Volumetric calibration in Litres or KL or BBL

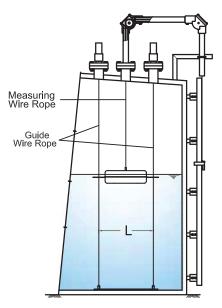
CONSTRUCTION & OPERATION

1. Guided : (fig 1) 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 between 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'. The pointer indicates level.The gauge board is supplied in 1 meter sections and multiple gauge boards are connected through gauge board brackets as per ordered measuring range.

Applications : Liquid with moderate turbulence.

2. Unguided : In this construction the float movement is not restricted through the guide wire as its movement is negligible.

Applications : Liquid with minimum turbulence.

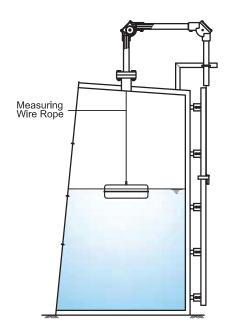


Pune Techtrol

Private Limited

Techtrol

Guided Construction



Unguided Construction



TYPICAL INSTALLATION

Fig 1. Gauge board with Full Travel, Mounted on Side of Ground Level Tank

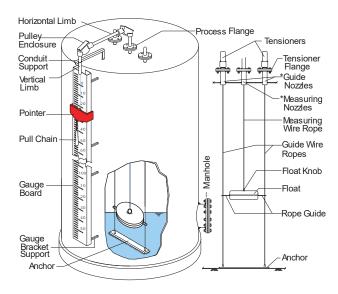


Fig 3. Gauge board with Full Travel, Mounted below Elevated Tank

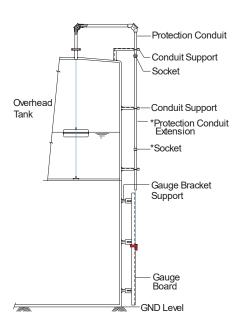


Fig 2. Gauge board with Full Travel, Mounted on Side of Elevated Tank

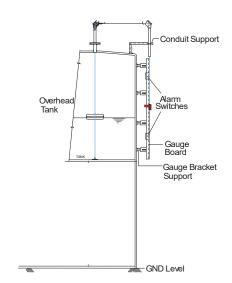
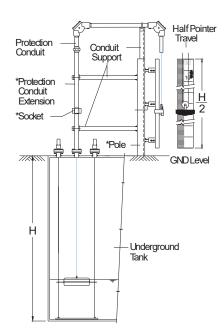
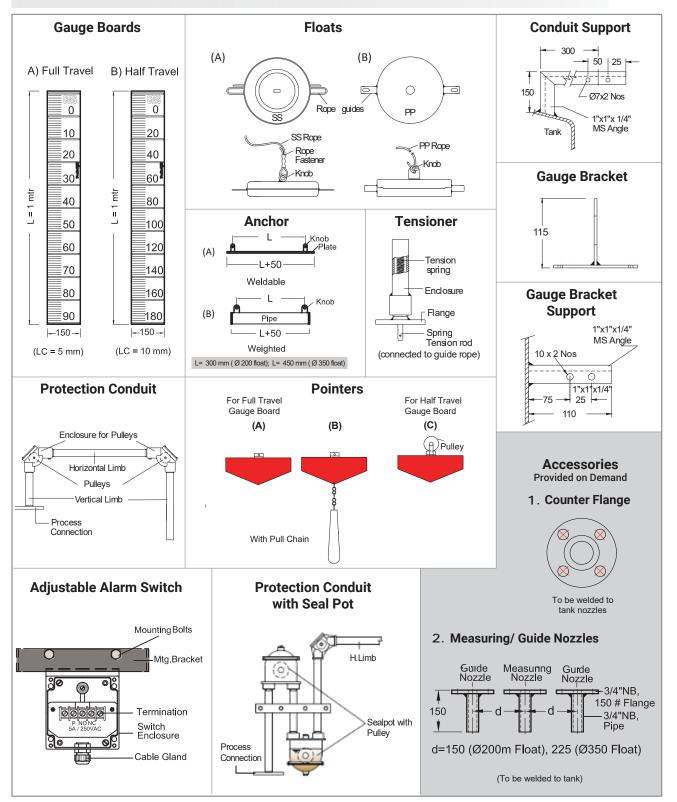


Fig 4. Gauge board with Half Travel, Mounted on Underground Tank

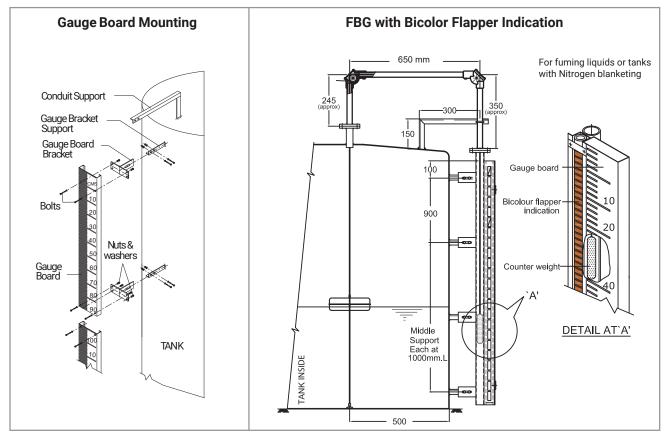


Techtrol Private Limited

COMPONENTS AND SUBASSEMBLIES ASSEMBLED AT SITE







SPECIFICATIONS

Construction	Guided	Unguided					
Range	1. 7.5 meters with Ø200 float	3 meters with					
	2. 15 meters with Ø350 float	Ø200 float					
Installation	Ground level tank or underground tank or elevated tank						
Liquid Specific Gravity	≥0.8						
Max Temperature	80 °C (PP), 100 °C (ECTFE Ctd SS), 150 °C (SS)						
Max Pressure	Atmospheric						
Float MOC x Size	SS304/316/316L, PP, ECTFE (Hallar) coated SS304/316 x Ø200 or Ø350						
Float/Guide Wire	SS304/316/316L, PTFE ctd SS304/316 x Ø 1.6 mm (multistrand)						
Rope	PP x Ø3 mm (multistrand)						



Process/Tensioner CS, CS A105, PP, SS304 or SS316 Connection MOC Process Connection 3/4" or 1" or 1-1/2" NB ASME 150# flange Tensioner Connections 3/4" or 1" or 1-1/2" ASME 150# flanges (2 nos.) Not Applicable 1. Cadmium pltd. steel spring in CS powder coated or PP enclosure Tensioner (2 nos.) 2. SS304 spring housed in SS304 enclosure Not Applicable 3. SS316 spring housed in SS316 enclosure 1. 6" wide, white powder coated Aluminium or SS304 MOC with black graduations and numerical markings in black (minor) per 10 cm and in red (major) per 100 cm (34 mm height) for full travel. 2. As above, but numerical markings in black (minor) per 20 cm and in red (major) per 200 cm for half Calibrated Gauge Board travel. 3. Volumetric scale in Litres or KL or BBL on request. Resolution (Gauge Board) 5 mm (full travel), 10 mm (half travel) Red powder coated CS or SS304 Pointer Pointer height= 60 mm for 7.5 meters range and 80 mm for 15 meters range Full for ground level, elevated tanks and underground tanks (< 4 meters) 1 Pointer Travel 2. Half for underground tanks from 4 to 8 meters depth Pull Chain Nylon rope with PP handle for highly viscous liquids, which tend to solidify at ambient temp 34" x GI or PP or SS304 pipe MOC Two vertical limbs of 285 & 195 mm 1. Protection Conduit One horizontal limb of 650 mm 2 Cadmium plated steel with PTFE bush & SS shaft in powder coated cast Al enclosure (WP) 1. 2. PP pulley with PTFE bush & PVC shaft in PP enclosure (WP) Pulley & Pulley З. SS304/316 pulley with PTFE bush & SS shaft in WP Cast Al. powder coated enclosure (WP) Enclosure (2 nos) 4. SS304 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) SS316 pulley with PTFE bush & SS shaft in SS316 enclosure (WP) 5. Welded : SS304/316/316L plate, 25 W x 6 Thick (metallic tanks) 1. Anchor 2. Weighted : SS304/ 316/ 316L or ECTFE coated SS304 pipe (1" NB) Not Applicable or PP 50 mm 0D Note : Length of anchor (L)= 300 (Ø200 float) and 450 mm (Ø350 float) SS316 Rope Fasteners Gauge Board Brackets Powder coated steel MS (Red oxide painted) Conduit Support Gauge Bracket Support MS (Red oxide painted) 1 50 mmWC - Cast aluminium/ SS316/ PVC coated cast aluminium Seal Pot 200 mmWC - CS or SS316 2. Adjustable Alarm Micro switch, mono-stable, SDPTx ABS enclosure IP65, Switch rating- 5A, 250VAC One to four numbers (max) Switches Counter flanges (CS, red oxide painted), nuts, bolts (CS) & CAF gaskets 1. Accessories Measuring/ guide nozzles with flange (CS, red oxide painted), nuts, bolts (CS) & CAF gaskets 2.



Pune Techtrol Private Limited

MODEL IDENTIFICATION

FBG -											
FBG -1. Construction x Pointer TravelGuided x Full TravelGuided x Half TravelUnguided x Full Travel2. Float MOCSS304SS316SS316LPPECTFE coated SS304ECTFE coated SS304CTFE coated SS316Others3. Float SizeØ 200 mm	N S L P H V O	1									
Ø 350 mm Ø 350 mm 4. Seal Pot Without 50 mmWC x Aluminum 50 mmWC x SS316 50 mmWC x PVC coated Aluminum 200 mmWC x CS 200 mmWC x SS316 Others 5. No. of Alarm Switches Without One Four 6. Installation		2	W 1 2 3 4 5 0	W 14							
Ground Level Tank Under Ground Tank (Sump) Elevated Tank 7. Calibrated Gauge Board x Pointer MOC Aluminum Gauge Board x CS Pointer Aluminum Gauge Board x CS Pointer with Pull Cha SS304 Gauge Board x CS Pointer SS304 Gauge Board x CS Pointer with Pull Chain SS304 Gauge Board x SS304 Pointer SS304 Gauge Board x SS304 Pointer SS304 Gauge Board x SS304 Pointer with Pull Cha 8. Process/ Tensioner Connection MOC					G U H	1 2 3 4 5 6	-				
CS CS A105 SS304 SS316 PP Others 9. Process Connection ³ / ₄ " NB ASME 150# Flange 1" NB ASME 150# Flange 1-1/2" NB ASME 150# Flange Others							M A N S P O	1 2 3 0			



Pune Techtrol

Private Limited

10. Tensioner Connections (2 nos.)								
Without (Unguided) W								
¾" NB ASME 150# Flange1								
1" NB ASME 150# Flange 2								
1-1/2" NB ASME 150# Flange 3								
Others 4								
11. Tensioner (Spring + Enclosure)								
Without (Unguided Construction)	W							
Cadmium plated Steel Spring x CS powder coated Enclosure	1]						
Cadmium plated Steel Spring x PP Enclosure	2]						
SS304 Spring x SS304 Enclosure	3							
SS316 Spring x SS316 Enclosure	4]						
Others	0]						
12. Protection Conduit								
GI x ¾" NB Protection Conduit		1						
SS304 x ¾" NB Protection Conduit		2						
GI x ¾" NB Protection Conduit with Extension (Elevated or Underground Tanks)		3						
SS304 x ¾" NB Protection Conduit with Extension (Elevated or Underground Tanks)		4						
PP x ¾" NB Protection Conduit		5						
Others		0						
13. Pulley x Pulley Enclosure								
Cadmium plated steel Pulley x Cast Al powder coated Enclosure			1					
SS304 Pulley x Cast Al powder coated Enclosure 2								
SS304 Pulley x SS304 Enclosure			3					
SS316 Pulley x Cast Al powder coated Enclosure			4					
SS316 Pulley x SS316 Enclosure 5								
PP Pulley x PP Enclosure 6								
14. Anchor								
Without (Unguided)				W A				
SS304 x Welded								
SS304 x Weighted								
SS316 x Welded								
SS316 x Weighted				D				
SS316L x Welded				E				
SS316L x Weighted				F G				
PP x Weighted								
ECTFE coated SS304 x weighted								
15. Accessories								
Without					W F			
Counter Flanges (CS) + Nuts, Bolts (CS) + CAF Gaskets								
Measuring/Guide Nozzles with Flange (CS) + Nuts, Bolts (CS) + CAF Gaskets								
Others								

ORDERING INFORMATION

Model No x Range x Service Liquid and its Specific Gravity, Operating Temperature & Pressure

PUNE TECHTROL PRIVATE LIMITED



Regd. & Sales: S-18, MIDC Bhosari, Pune - 411026, India +91-20-66342900 | ho@punetechtrol.com

Works: J-52/7, MIDC Bhosari, Pune - 411026, India +91-20-67313600 | www.punetechtrol.com