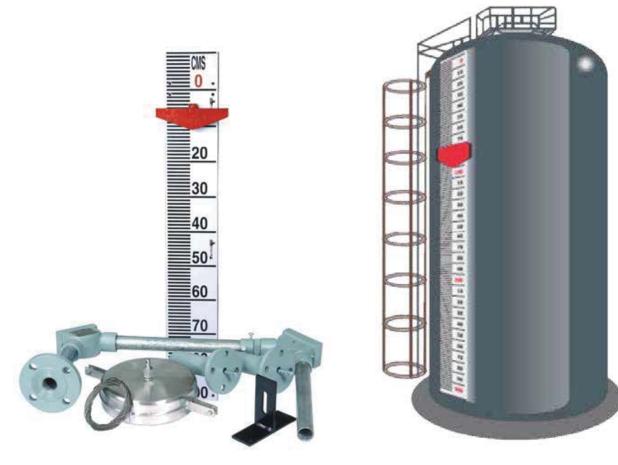


FLOAT & BOARD TANK GAUGE "FBG"

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



CE

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

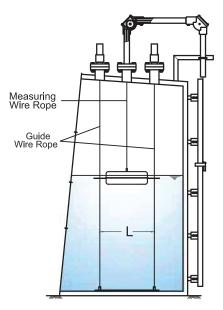
CONSTRUCTION & OPERATION

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.

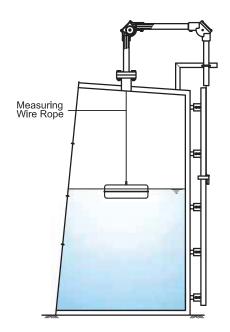


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Guided Construction



Unguided Construction



TYPICAL INSTALLATION

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

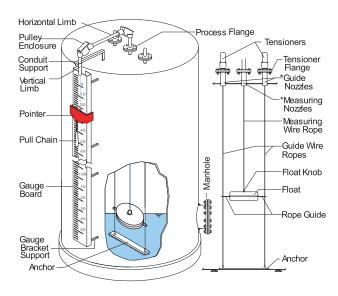


Fig 3. Gauge board with Full Travel, Mounted below Elevated Tank

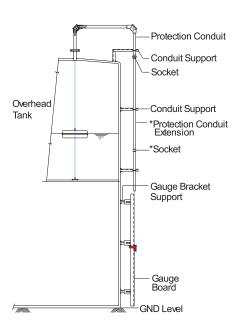


Fig 2. Gauge board with Full Travel, Mounted on Side of Elevated Tank

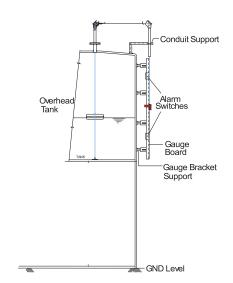
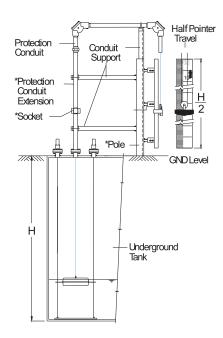
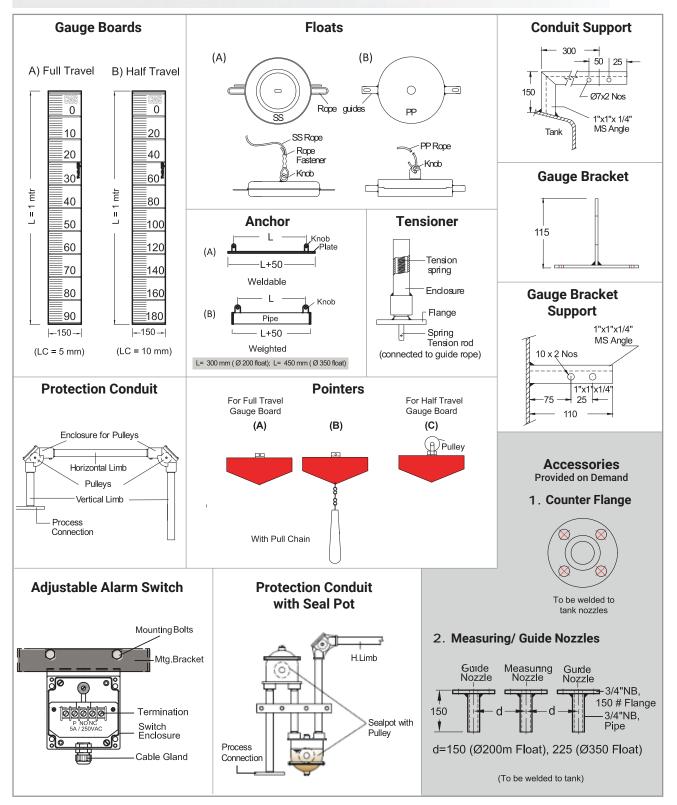


Fig 4. Gauge board with Half Travel, Mounted on Underground Tank



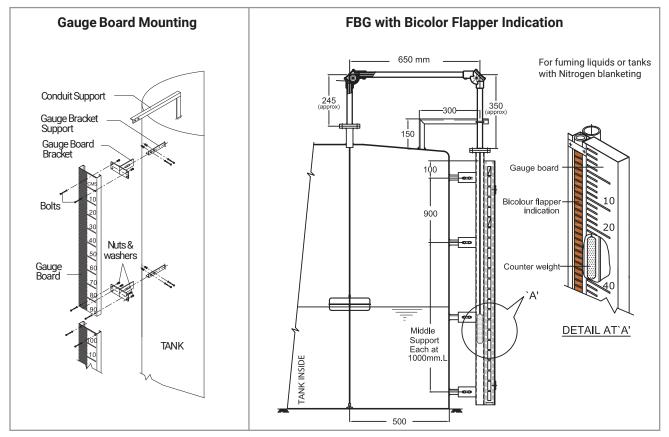
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COMPONENTS AND SUBASSEMBLIES ASSEMBLED AT SITE



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SPECIFICATIONS

Construction	Guided	Unguided					
Range	nge 1.7.5 meters with Ø200 float						
	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 Rope	SS304/316/316L, PTFE ctd SS304/316 x Ø 1.6 mm (multistrand) 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 gradua										
	markings in black (minor) per 10 cm and in red (major) per 100 cm (34 mm height) for full travel.										
Calibrated Gauge Board	2. As above, but numerical markings in black (minor) per 20 cm and in red (major) per 200 cm for half										
	travel.										
	3. Volumetric scale in Litres or KL or BBL on request.										
Resolution (Gauge Board)	5 mm (full travel), 10 mm (half travel)										
Pointer	Red powder coated CS or SS304										
	Pointer height= 60 mm for 7.5 meters range and 80 mm for 15 meters rar	nge									
Pointer Travel	1. Full for ground level, elevated tanks and underground tanks (< 4 meters)										
	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									
	¾" x GI or PP or SS304 pipe MOC										
Protection Conduit	1. Two vertical limbs of 285 & 195 mm										
	2. One horizontal limb of 650 mm										
	1. Cadmium plated steel with PTFE bush & SS shaft in powder coated o	ast Al enclosure (WP)									
Pulley & Pulley	 PP pulley with PTFE bush & PVC shaft in PP enclosure (WP) 										
Enclosure (2 nos)	3. SS304/316 pulley with PTFE bush & SS shaft in WP Cast AI. powder coated enclosure (WP)										
2.101000010 (2.1100)	4. SS304 pulley with PTFE bush & SS shaft in SS304 enclosure (WP)										
	5. SS316 pulley with PTFE bush & SS shaft in SS316 enclosure (WP)										
	1. Welded : SS304/316/316L plate, 25 W x 6 Thick (metallic tanks)										
Anchor	2. Weighted : SS304/ 316/ 316L or ECTFE coated SS304 pipe (1" NB)										
	or PP 50 mm OD	Not Applicable									
	Note : Length of anchor (L)= 300 (Ø200 float) and 450 mm (Ø350 float)										
Rope Fasteners	SS316										
Gauge Board Brackets	Powder coated steel										
Conduit Support	MS (Red oxide painted)										
Gauge Bracket Support	MS (Red oxide painted)										
	1. 50 mmWC - Cast aluminium/ SS316/ PVC coated cast aluminium										
Seal Pot	 2. 200 mmWC - CS or SS316 										
Adjustable Alarm	Micro switch, mono-stable, SDPTx ABS enclosure IP65, Switch rating- 5A	250VAC									
Switches One to four numbers (max)											
OWITCHES		+o									
Accessories	1. Counter flanges (CS, red oxide painted), nuts, bolts (CS) & CAF gaske										
	2. Measuring/ guide nozzles with flange (CS, red oxide painted), nuts, b	oits (CS) & CAF gaskets									



MODEL IDENTIFICATION

FBG -											
1. Construction x Pointer Travel	_										
Guided x Full Travel F											
Guided x Half Travel											
Unguided x Full Travel	J										
2. Float MOC		4									
SS304	N	-									
SS316	S	-									
SS316L	L	-									
PP	P	-									
ECTFE coated SS304	H	-									
ECTFE coated SS316	V	-									
Others	0										
3. Float Size		1	-								
Ø 200 mm		1	-								
Ø 350 mm		2									
4. Seal Pot Without			W								
50 mmWC x Aluminum			1	-							
50 mmWC x SS316			2	-							
50 mmWC x PVC coated Aluminum			3	-							
200 mmWC x CS			4	-							
200 mmWC x SS316			5	-							
Others			0	1							
5. No. of Alarm Switches			0								
Without				W							
One Four				14	1						
6. Installation				1							
Ground Level Tank					G	1					
Under Ground Tank (Sump)					U	1					
Elevated Tank					Н	1					
7. Calibrated Gauge Board x Pointer MOC											
Aluminum Gauge Board x CS Pointer						1	1				
Aluminum Gauge Board x CS Pointer with Pull Chair	า					2	1				
SS304 Gauge Board x CS Pointer						3	1				
SS304 Gauge Board x CS Pointer with Pull Chain						4	1				
SS304 Gauge Board x SS304 Pointer						5]				
SS304 Gauge Board x SS304 Pointer with Pull Chair	า					6					
8. Process/ Tensioner Connection MOC											
CS							Μ	-			
CS A105							A	-			
SS304							N				
SS316							S	-			
PP							P	-			
Others							0				
9. Process Connection											
³ 4" NB ASME 150# Flange								1			
1" NB ASME 150# Flange								2			
											1
1-1/2" NB ASME 150# Flange Others								3			

Private Limite	ea
10. Tensioner Connections (2 nos.)	
Without (Unguided)	
34" NB ASME 150# Flange 1	
1" NB ASME 150# Flange 2	
1-1/2" NB ASME 150# Flange 3	
Others 4	
11. Tensioner (Spring + Enclosure)	
Without (Unguided Construction)	
Cadmium plated Steel Spring x CS powder coated Enclosure	
Cadmium plated Steel Spring x PP Enclosure 2	
SS304 Spring x SS304 Enclosure 3	
SS316 Spring x SS316 Enclosure 4	
Others	
12. Protection Conduit	
GI x ³ / ₄ " NB Protection Conduit	
SS304 x ³ / ₄ " NB Protection Conduit 2	
GI x ³ / ₄ " NB Protection Conduit with Extension (Elevated or Underground Tanks) 3	
SS304 x ³ / ₄ " 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
SS304 x Welded	A
SS304 x Weighted	В
SS316 x Welded	С
SS316 x Weighted	D
SS316L x Welded	E
SS316L x Weighted	F
PP x Weighted	G
ECTFE coated SS304 x weighted	Н
15. Accessories	
Without	V
Counter Flanges (CS) + Nuts, Bolts (CS) + CAF Gaskets	F
Measuring/Guide Nozzles with Flange (CS) + Nuts, Bolts (CS) + CAF Gaskets	1
Others	

ORDERING INFORMATION

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

PUNE TECHTROL PRIVATE LIMITED CIN: U31909PN1997PTC063403



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

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