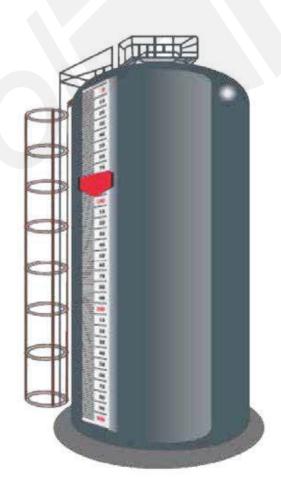


FLOAT & BOARD TANK GAUGE

"FBG"

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





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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

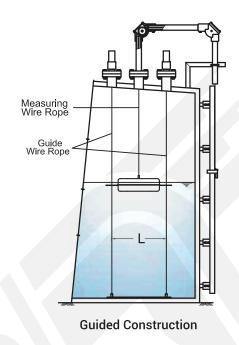
CONSTRUCTION & OPERATION

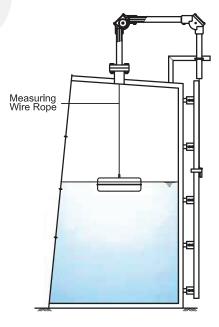
1. Guided: (fig 1) It consists of a float connected to a pointer through a rope via a set of pulleys. The pointer with nylon roller glides smoothly over a calibrated gauge board, positioned parallel to the tank. The float accurately follows liquid level variations in vertical direction. The horizontal 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.





Unguided Construction



TYPICAL INSTALLATION

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

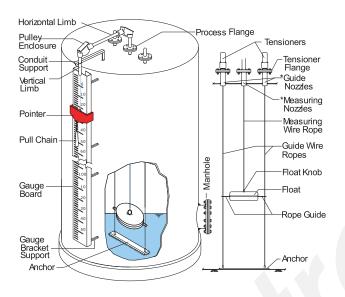


Fig 3. Gauge board with Full Travel, Mounted below Elevated Tank

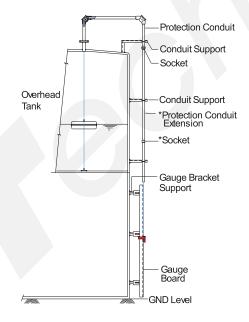


Fig 2. Gauge board with Full Travel, Mounted on Side of Elevated Tank

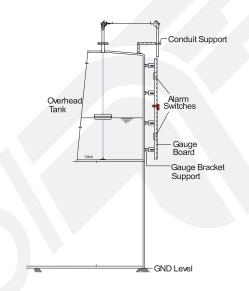
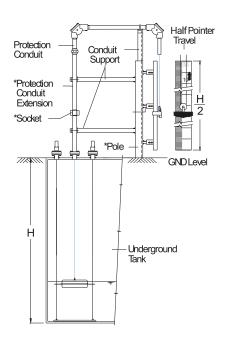
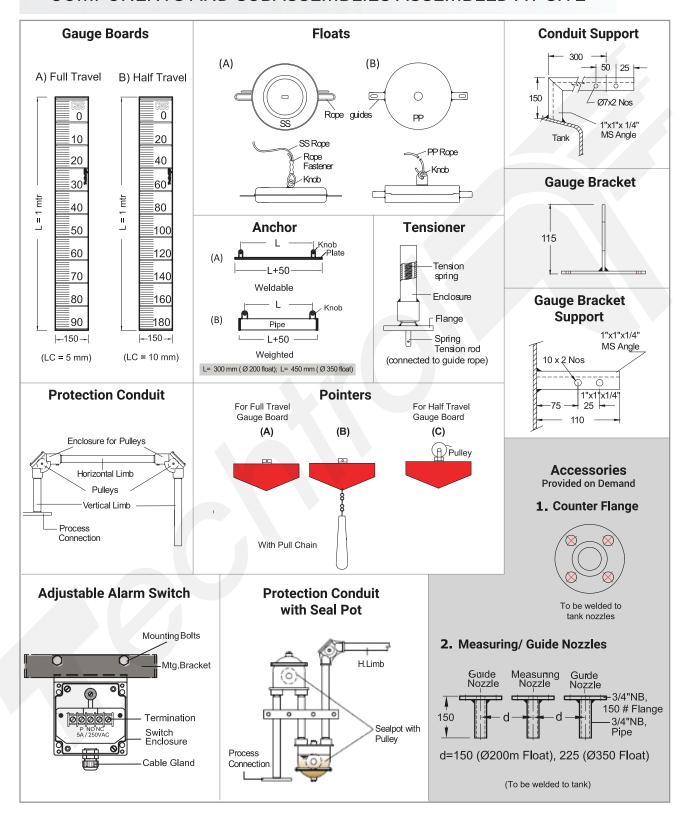


Fig 4. Gauge board with Half Travel, Mounted on Underground Tank

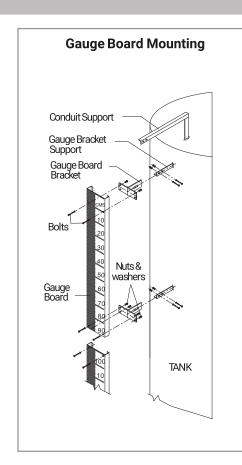


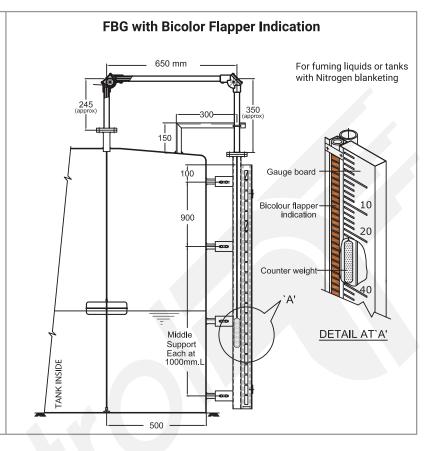


COMPONENTS AND SUBASSEMBLIES ASSEMBLED AT SITE









SPECIFICATIONS

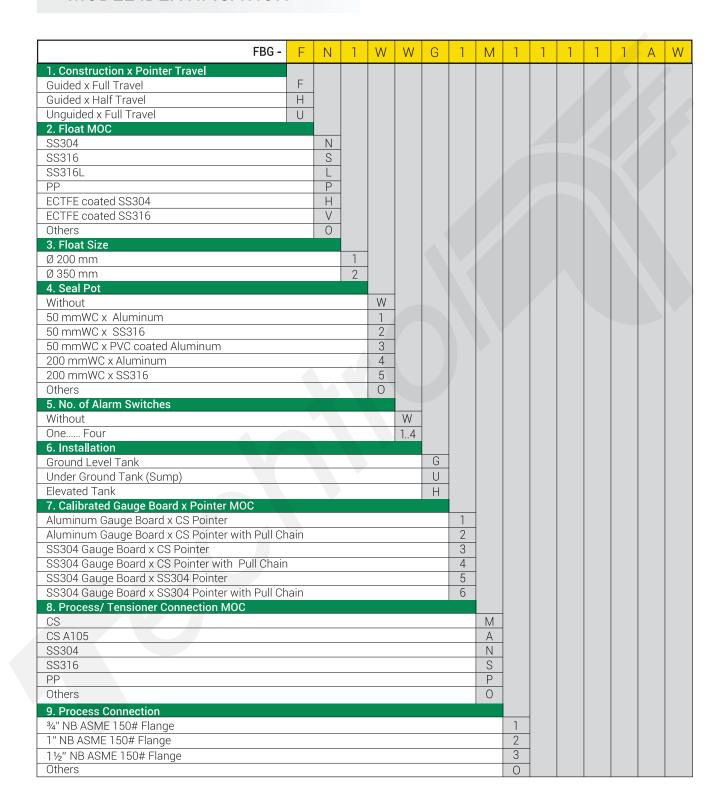
Construction	Guided	Unguided
Range 1)	7.5 meters with Ø200 float	3 meters with
2)	15 meters with Ø350 float	Ø200 float
Installation	Ground level tank or underground tank or elevated tank	
Liquid Specific Gravity	≥ 0.8	
Max.Temperature	80 °C (PP), 100 °C (ECTFE Ctd SS), 150 °C (SS)	
Max.Pressure	Atmospheric	
Float MOC x Size	SS304/316/316L, PP, ECTFE (Hallar) coated SS304/316 x Ø200 or Ø350 n	nm
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		¾" or 1" or 1½" NB ASME 150# flange		
Tensioner Connection	S	%4"or 1" or 11/2" ASME 150# flanges (2 nos.)	Not Applicable	
Tensioner (2 nos.)	1)	Cadmium pltd. steel spring in CS powder coated or PP enclosure		
	2)	SS304 spring housed in SS304 enclosure	Not Applicable	
	3)	SS316 spring housed in SS316 enclosure		
Calibrated Gauge Board	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 travel.		
	3)	Volumetric scale in Litres or KL or BBL on request.		
Resolution (Gauge Boa	ard)	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 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		
		³ / ₄ " x GI or PP or SS304 pipe MOC	<u> </u>	
Durata ati an Oran duit	1)	Two vertical limbs of 285 & 195 mm		
Protection Conduit	2)	One horizontal limb of 650 mm		
Pulley & Pulley Enclosure (2 nos)	1)	Cadmium plated steel with PTFE bush & SS shaft in powder coated cast A	Janalagura (MD)	
		PP pulley with PTFE bush & PVC shaft in PP enclosure (WP)	arendiosure (WP)	
	2)	SS304/316 pulley with PTFE bush & SS shaft in WP Cast Al. powder coate	nd analogura (M/D)	
	4)	SS304/316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP)	ed enclosure (WP)	
	5)	SS316 pulley with PTFE bush & SS shaft in SS316 enclosure (WP)		
Anchor	1)	Welded : SS304/316/316L plate, 25 W x 6 Thick (metallic tanks)		
	2)	Weighted: SS304/316/316L or ECTFE coated SS304 pipe (1" NB)	Not Applicable	
		or PP 50 mm 0D	Ţ- J	
		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 Suppor	t	MS (Red oxide painted)		
Seal Pot	1)	50 mmWC - Cast aluminium/ SS316/ PVC coated cast aluminium		
	2)	200 mmWC - Cast alumınıum or SS316		
Adjustable Alarm		Micro switch, mono-stable, SDPTx ABS enclosure IP65, Switch rating- 5A, 250VAC		
Switches		One to four numbers (max)		
		Counter flanges (CS, red oxide painted), nuts, bolts (CS) & CAF gaskets		
Accessories	1)			



MODEL IDENTIFICATION





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

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**