

TRANSPARENT TUBULAR LEVEL GAUGE "TTG"

Simple, low cost and reliable gauge for direct reading of clean liquid levels at low temperature and pressure conditions.

SALIENT FEATURES

- Offset valves permit cleaning of gauge glass & its removal on line
- Wide choice of MOC
- IBR certified gauge for steam service on demand
- PTFE lined gauge for corrosive liquids

CONSTRUCTION AND OPERATION

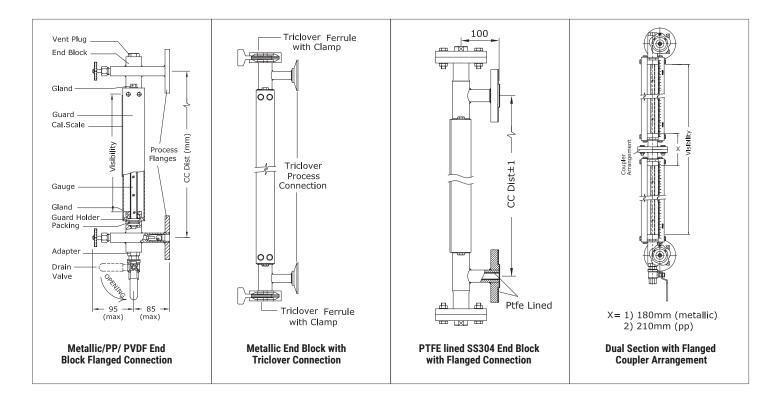
Gauge is fitted between two end blocks through gland packings. The gauge is mounted parallel to tank so as to form a close loop, causing tank liquid to seek its level in the gauge. 'C' channels/ tie rods are provided to protect gauge from accidental blows. End blocks are provided with vent plug, drain valve & integral offset valves.



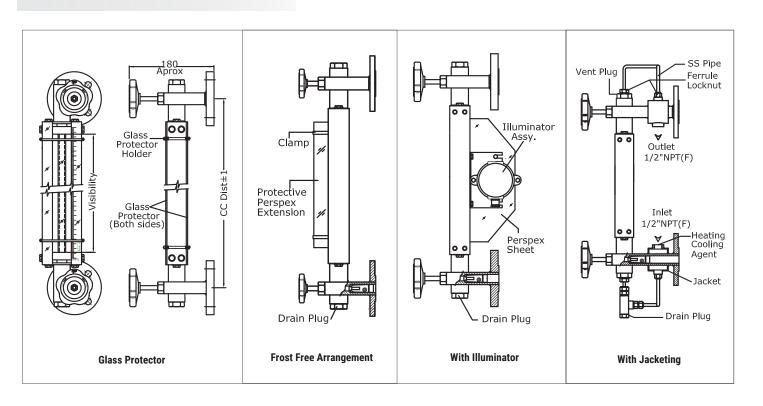
(£1282 IBR



SCHEMATIC DIAGRAM



SPECIAL FEATURES





SPECIFICATIONS

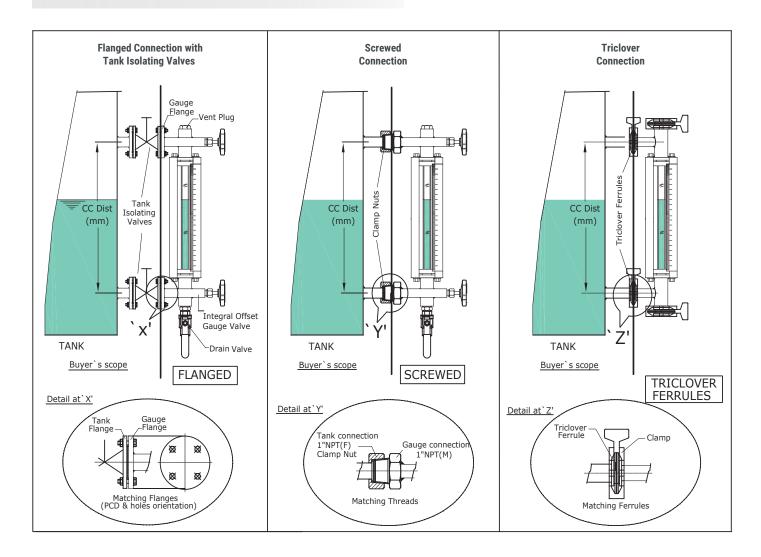
Gauge Glass	Tem	pered borosilicate heavy wa	all 16 mm, 19 mm or 25 mi	m OD						
End Block MOC	CS /ASTM A105/ SS304 /316 /316L	PP or PVDF	PTFE lined SS304 with 19 mm OD Glass	Sanitary Finish SS316/ SS316L						
End Block Type	Without Valve Integral Offset Needle Without Valve Integral Offset Needle	Valve Valve with autoball check	Without Valve	Without Valve						
Autoball Check MOC	SS316/SS316L	PP/ PVDF capsule with PTFE ball	NA	NA						
'C' Channel Guards	CS, SS304, SS316	FRP	SS304	SS304						
Tie Rods Guards	CS, SS304	CS, SS304	SS304	SS304						
Packing		P ⁻	PTFE							
Gland MOC	CI / SS316	PP	SS316	SS316						
Process Connection	Flanged, Screwed	Flanged	Flanged	Triclover Ferrule						
Vent & Drain MOC	CS/ASTM A105/ SS304/ SS316/ SS316L	PP or PVDF	PTFE	SS316/316L						
Vent 16 mm Gauge Glass 19 mm Gauge Glass 25 mm Gauge Glass	1/2" BSP Plug or Ball Val 3/4" BSP Plug or 1/2" BSP Ba 1" BSP Plug or 1/2" BSP Ball	Il Valve (with Plug if reqd.)	½" BSP PTFE Plug or 1"NB PTFE lined SS304 Flanged Ball Valve	Triclover Ferrule with Clamp						
Drain	½" BSP Plug or Ball Va	alve (with Plug if reqd.)	½" BSP PTFE Plug or 1" NB PTFE lined SS304 Flanged Ball Valve	Triclover Ferrule with Clamp						
Scale MOC		Polycarbonate (screen p	printed), SS304 (etched)							
Scale Calibration		mm (LC= 5 mm),	cm (LC= 0.5 cm)							
CC Distance	300 to 1500 mm in single section and upto 3000 mm in dual section. Dual section achie ved through flanged coupler.									
Visibility		CC Distance	e – 150 mm							
Max Temperature	200 °C	70°C PP 100°C PVDF	100 °C	200 °C						
Test Pressure at Amb Temp	Vacuum to 10 Kg/cm²	Vacuum to 2 Kg/cm²	Vacuum to 2 Kg/cm²	Vacuum to 10 Kg/cm²						
Accessories	Tank isolation valves with nuts, bolts & gaskets Counter flanges with nuts, bolts & gaskets									
Special Features										
Glass Protector	3 mm thick perspex shield to protect gauge glass and for personnel safety									
Auto Ball Check	SS316 or PTFE ball to minimize liquid loss during glass breakage									
Frost-free	20 mm thk x 35 mm extens for clear visual reading of lid		ent frost formation on outer	surface of gauge glass						
Illuminator	To provide uniform light alo illuminated through a LED b single illuminator is 1200 m	oulb, 80 to 250 VAC with Al.								
Jacketing	For preventing solidification bottom & top end blocks for		sts of a SS pipe with "NPT (F)" inlet & outlet at						

Note 1 - All CI/CS components are epoxy powder coated

Note 2 - Separate catalogue is available for IBR



TYPICAL INSTALLATIONS



WORKING OF AUTOBALL CHECK

It consists of a capsule and free moving ball along its inner race, between the stopper & orifice. During glass breakage, the high pressure from vessel side (Optg. Pr + Liquid Column) moves the ball to block the orifice and minimize liquid loss from tank.

Glass Break Capsule Liquid

∠Ball

APPLICATIONS

- ▶ Storage / Process Tanks of Water, Brine, Oils, Solvents, Alcohol, Diesels.
- Dosing Tanks of Acids & Alkalies in WTP, STP and ETP.



MODEL IDENTIFICATION

	TTG -	1	М	٧	1	ı	3	1	1	2	1	W
1. Gauge Glass Size												
16 mm OD		1										
25 mm OD		2										
19 mm OD		3										
2. End Block MOC												
CS			М									
ASTM A105			Α									
SS304			N									
SS316			S									
SS316L			L									
PP			Р									
PVDF			D									
PTFE lined SS304			T									
Others			0									
3. End Block Type												
Without valve				W								
Integral Offset Needle Valve				٧								
Integral Offset Needle Valve with Auto Ball Check				Α								
Others		-		0								
4. Guards												
CS 'C' Channels					1							
FRP 'C' Channels					2	-						
SS304 'C' Channels					3							
CS Tie Rods					4							
SS304 Tie Rods					5							
SS316 'C' Channels Others					6	_						
5. Gland MOC					U							
CI												
SS316						S						
PP						P	-					
6. Process Connection Size						'						
1/2"							1					
3/4"							2					
1"							3					
1-1/2"							4					
Others							0					
7. Process Connection Type							J					
ASME 150# Flange								1				
DIN Flange								2				
BSP (M) Screwed								3				
NPT (M) Screwed								4				
Triclover Ferrule								5				
Others								0	+			



ORDERING INFORMATION

Model No x Liquid x Operating. Temperature & Pressure x Accessories (optional)

PUNE TECHTROL PRIVATE LIMITED



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