# Transparent Tubular Level Gauge - TTG

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

#### Construction & 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.

#### Salient Features :

- 360° visibility with Tie-rod guards.
- Offset valves permit cleaning of gauge glass & its removal on line.
- IBR certified gauge for steam service (on demand)
- Rubber lined gauge for corrosive liquids (on demand)

#### Specifications :

Gauge	: Tempered Borosilicate Glass (HW) x 16 mm OD (25mm OD for viscous liquids)
End Block MOC	: CS / SS 304 / SS 316 / PP / PVDF
End Block Type	: w/o Valve/with Integral Offset Valve/with Integral Offset Valve + Autoball check
Guards	: 'C' Channel (CS/SS304/FRP); Tie Rods (CS/SS304)
Gland MOC	: CI / SS 316 / PP
Packing	: PTFE
Process conn.	: 1" Flanged (ANSI 150#) or BSP Screwed (M)
Vent / Drain	: Plug / Ball valve
Calibrated Scale	: Polycarbonate (LC=2mm) / SS(LC=10mm)
CC Dist.	: 300 to 1500mm (single gauge)
	1500 to 3000mm (2 gauges) through coupler
Visibility	: CC Dist - 150mm
Maximum Temp.	: 200°C (Metallic)/100°C (PVDF)/70°C(PP)
Test Pressure	: Vacuum to 10 Kg/cm <sup>2</sup> (Metallic)
(at amb temp)	Vacuum to 2 Kg/cm <sup>2</sup> (PVDF/PP)

#### Special Features (Optional) :

Glass Protector	:	3mm thk perspex shield to protect gauge glass & personnel safety
Auto Ball Check	:	SS316 or PTFE Ball to minimise liquid loss during glass breakage
Frostfree	:	20mm thk x 35mm extension Perspex Shield to prevent frost formation on outer surface of glass for clear visual reading of liquid at low temp.
Illuminator	:	To provide uniform light along the length of gauge glass. It consists of Perspex Reflector, illuminated through a LED Bulb (80 to 250VAC)with AI Enclosure IP65/Ex-p Gr IIB or IIC. The length of single illuminator is 1200mm (max). For length beyond 1200mm, two illuminators are joined together.
Jacketing	:	For prevention of process liquid solidification. It consists of a ss pipe with "NPT(F)" inlet & outlet at

bottom & top end blocks for heating/cooling agent.



### Accessories (Optional) :

- 85

(max)

95

(max)

Adapter Drain – Valve

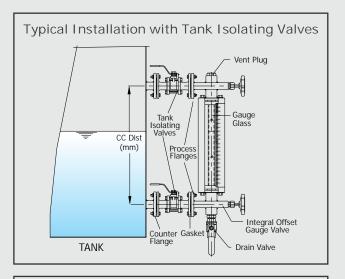
1) Tank Isolation Valves (1 pair) with nuts, bolts & gaskets for gauge removal.

2) Counter flanges with nuts, bolts & gaskets.

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

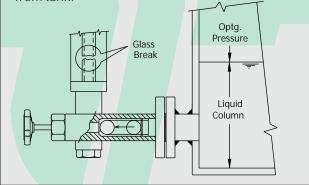
Note 2 - Separate Datasheets are available for IBR & Rubber Lined Gauges

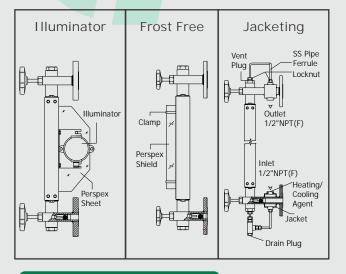




Working of Autoball Check during Glass Breakage

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.





## Ordering Information :

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

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## Model Identification :

TTG -							
Gauge Size 16mm.OD. x B. Glass (HW) 1 25mm.OD. x B. Glass (HW) 2 Others 0 End Block Moc CS ////////////////////////////////////	A 0	5					
Others Gland Moc CI SS 316 PP Others Process Connections			I S P O				
Flanged Screwed (M) Others				F S O			
Vent x Drain Plug x Plug Plug x Ball Valve Others					1 2 0		
Cal. Scale Polycarbonate						P S O	
Others Special Features None Frost Free						0	W F
Illuminator Jacketing							l J



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