



# TRANSPARENT TUBULAR LEVEL GAUGE - "TTG"

SINCE 1984

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

**Construction & Operation :**

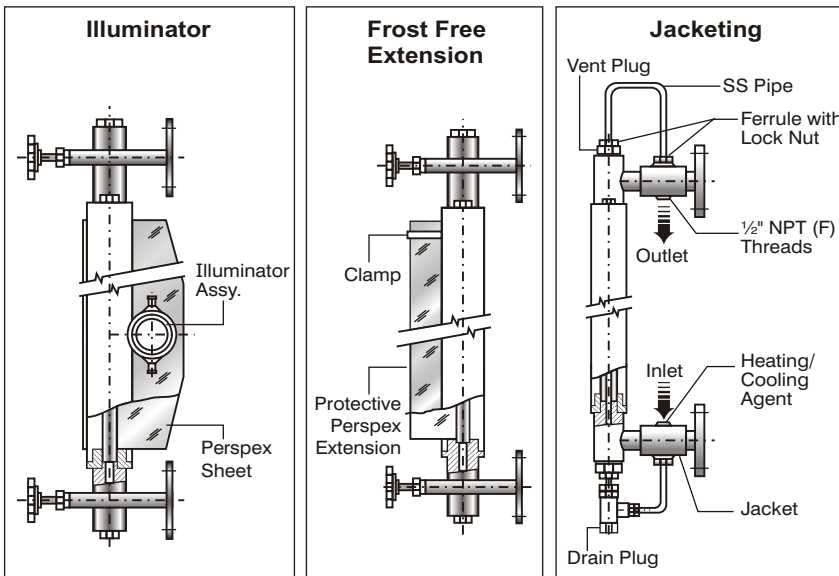
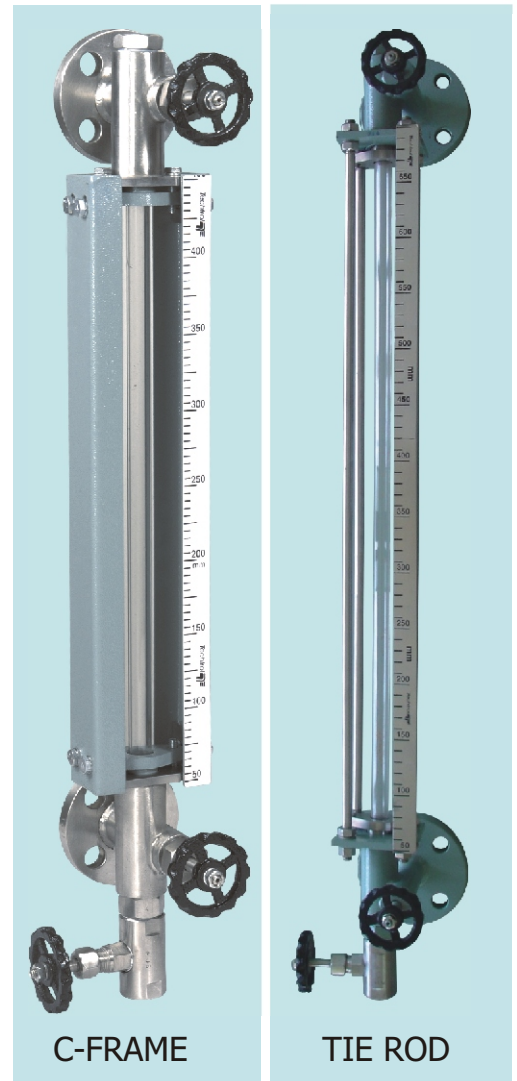
Gauge is fitted between two end blocks through gland packings. The gauge is mounted parallel to tank so as to form a close loop causing tank liquid to seek its level in the gauge. Guards are provided in the form of tie-rods / c-channels around the gauge to protect it from accidental blows. End blocks have built-in isolating valve, drain valve & vent plug.

**Features :**

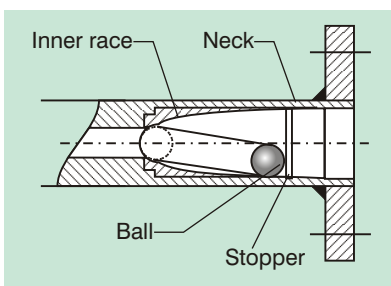
1. 360° visibility with tie-rod guards.
2. Glass removal / replacement possible w/o dismantling of gauge.
3. Offset isolating valves permit cleaning of glass gauge w/o removal.

**Special Features (Optional)**

1. Illuminator : Illuminates poorly lit areas for proper visual indication.
2. Frost Free : Prevents frost formation on outer surface of gauge glass for clear visual reading in case of liquids at low temperature.
3. Jacketing : For heating / cooling of process liquid to prevent its solidification.
4. Glass Protectors : To provide additional protection and personnel safety.
5. Auto Ball check : Built into end block for preventing liquid loss, during glass breakage.

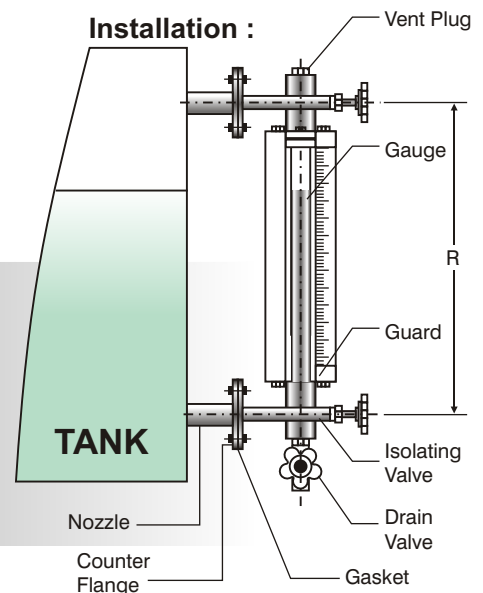


**Auto Ball Check**



**Installation :**

Side mounted through tank nozzles, having matching counter flanges / threads, ensuring that CC distance between nozzles corresponds with CC distance (R) of the gauge.



**\*\*IBR CERTIFIED / PTFE / RUBBER LINED GAUGES AVAILABLE**

**Model identification / Ordering information**

**MODEL NO. TTG-**

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**x R (CC dist.) in mm.**

**GAUGE SIZE**

- 16mm.OD. x B. Glass (HW) — 1
- 25mm.OD. x B. Glass (HW) — 2
- Non-std — 0

**END BLOCK MATL.**

- MS. — M
- SS 304 — N
- SS316 — S
- PP / PVC — P
- Non-std. — O

**END BLOCK TYPE**

- W/O Valve — W
- Offset Needle Valve — V
- Offset NV. with Auto Ball Check — A
- Non-std. — O

**GUARDS**

- MS 'C' Channels — 1
- MS 'C' Channels with Protector — 2
- MS Tie Rods — 3
- MS Tie Rods with Protector — 4
- Non-std. — 0

**GLAND MATL.**

- CI — I
- SS 316 — S
- Non-std. — 0

**PROCESS CONNECTIONS**

- Flanged — F
- Screwed — S
- Non-std. — 0

**VENT x DRAIN**

- 1/2" Plugs — 1
- 1/2" Plug x 1/2" Valve — 2
- Non-std. — 0

**CAL. SCALE**

- W/O — W
- Al. Scale — L
- Non-std. — 0

**SPECIAL FEATURES**

- None — W
- Frost Free — F
- Illuminator — I
- Jacketing — J
- Non-std. — 0

**Applications :** Chemical / Petro-Chemical, Fertilizer, Power generation, Pharmaceutical, Automobile, Water / Waste Water / Effluent treatment plants, Cooling / Lubricating / Filtration systems, Liquid sewerage tanks, Chemical dosing system, Chemical reactors etc.

**PUNE TECHTROL PVT LTD**

Regd. Office & Works  
 'S' 18, MIDC, Bhosari, Pune : 411026 India  
 Tel : +91-20-27129298, 27121052, 27128055, 56111996/7  
 Fax : +91-20-27121663  
 E mail : techtrol@pn2.vsnl.net.in  
 Web : www.punetechtrol.com

**Service Centre**  
 20 / 21, Parshwanath  
 Industrial Co-op. Society,  
 Bhosari, Pune - 411026  
 India  
 Tel : +91-20-56113565

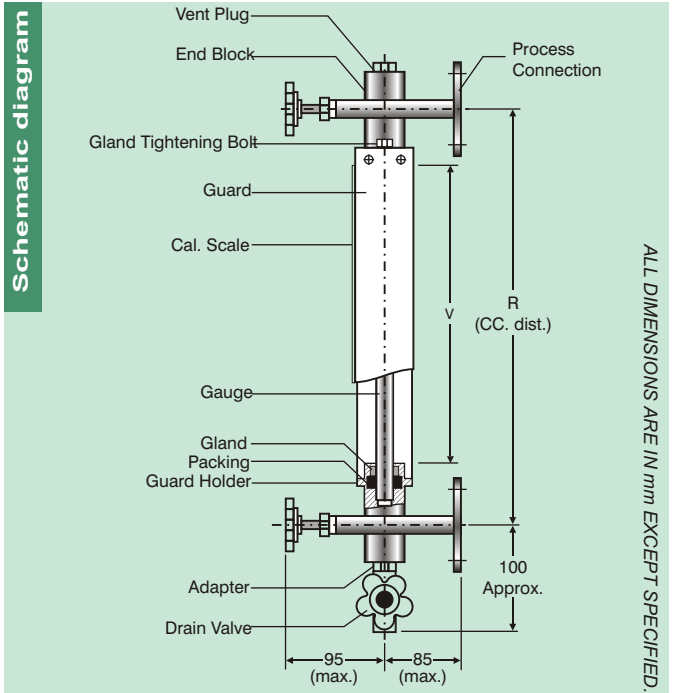
**STANDARD SPECIFICATIONS :**

- Gauge** : Heavy walled Borosilicate Glass Tube with 16 mm OD for regular liquids and 19 or 25 mm OD for viscous liquids.
- Packing** : PTFE
- Glands** : CI or SS 316.
- End Blocks** : MS, SS 304, SS 316, PP or PTFE with or without Isolating Offset Needle Valves.
- Guards** : MS c-channels or tie-rods.
- Process Conn.** : 3/4" or 1" Flanged or Screwed to various standards.
- Vent/Drain** : 1/2" threaded plugs or 1/2" plug x Needle Valve (Metallic) or 1/2" plug x Ball Valve (PP)
- Calibrated Scale** : Epoxy powder ctd. AL (LC=10 mm).
- CC Dist. (R)** : 3000 mm. (max.) in single length. Extended range through couplers.
- Visibility** : R-150 mm.
- Maximum Temp.** : 200°C ( PP Blocks : 70°C).
- Test Pressure** : 10 kg/cm<sup>2</sup> at amb. temp. ( PP Blocks : 2 kg/cm<sup>2</sup>).

**OPTIONAL**

- Auto Ball Check** : 10mmØ SS 316 Ball (PTFE for 'PP' End Blocks).
- Glass Protector** : 3 mm. thick perspex shields around guards.
- Frost Free Extn.** : Perspex shield 20 mm. thick with 35 mm. extension.
- Illuminator** : Enclosure - Cast AL, WP-IP65, Ex-Proof Gr.IIA, IIB or IIC  
 Supply - 230V AC. 50Hz,  
 15W bulb mounted on 10mm Perspex sheet.
- Jacketing** : 1/4" SS pipe with ferrule & lock nut.

**Epoxy Powder Coating on :** CI glands, MS end blocks, MS tie-rods / channels



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