

Transparent Tubular Level Gauge - 'TTG'

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



Innovating Level Controls Since 1984

Construction & Operation :

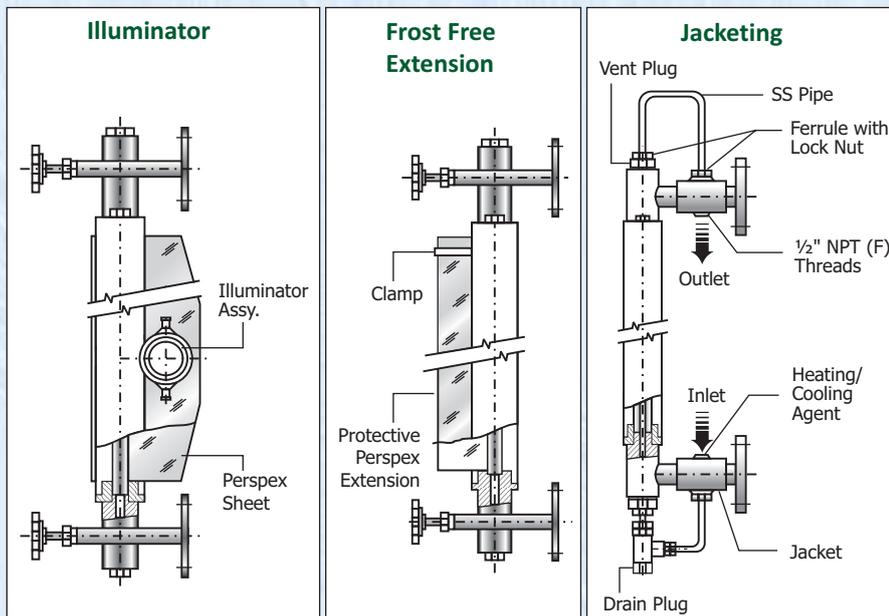
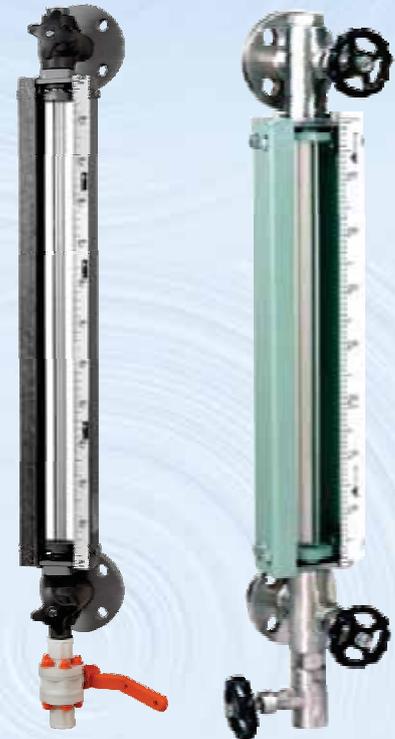
Gauge is fitted between two end blocks through gland packings. The gauge is mounted parallel to tank so as to form a close loop causing tank liquid to seek its level in the gauge. Guards are provided in the form of tie-rods / c-channels around the gauge to protect it from accidental blows. End blocks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

Features :

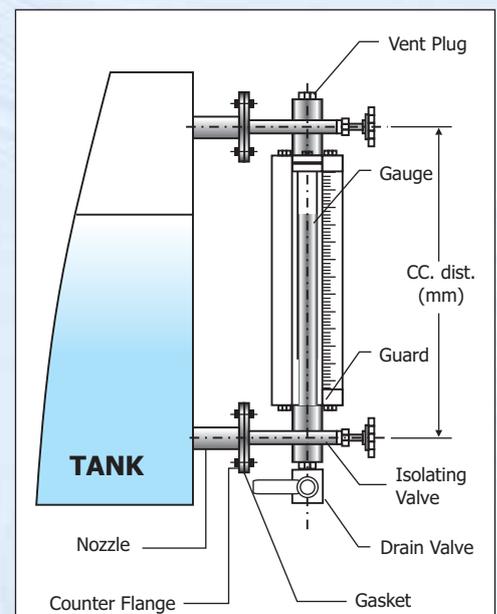
- ☑ 360° visibility with tie-rod guards.
- ☑ Glass removal / replacement possible w/o dismantling of gauge.
- ☑ Offset isolating valves permit cleaning of glass gauge w/o removal.

Special Features (Optional) :

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

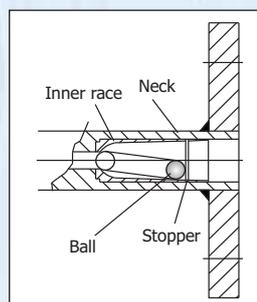


Installation :



Auto Ball Check :

Autoball check facility is provided to prevent "liquid loss" from vessel during breakage of gauge glass. It consists of a capsule located within the gauge 'neck' and contains a 'ball' which moves freely along its inner race between the stopper & orifice. During breakage, the pressure on 'ball' from gauge side will be atmospheric, whereas higher pressure from vessel side ("optg pr + liquid column") will cause the ball to move and block the orifice, to minimize liquid loss.



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 / RUBBER LINED GAUGES AVAILABLE

Model Identification - TTG :

GAUGE SIZE

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

END BLOCK MOC

CS — M
 SS 304 — N
 SS316 — S
 PP — P
 PVDF — D
 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

CS 'C' Channels — 1
 FRP 'C' Channels — 2
 SS 304 'C' Channels — 3
 CS Tie Rods — 4
 SS 304 Tie Rods — 5
 Non-std. — 0

GLAND MOC

CI — I
 SS 316 — S
 PP — P
 Non-std. — O

PROCESS CONNECTIONS

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

VENT x DRAIN

Plug x Plug — 1
 Plug x Ball Valve — 2
 Non-std. — 0

CAL. SCALE

Polycarbonate — P
 SS 304 — S
 Non-std. — O

SPECIAL FEATURES

None — W
 Frost Free — F
 Illuminator — I
 Jacketing — J

x (CC dist.) in mm.



Standard Specifications :

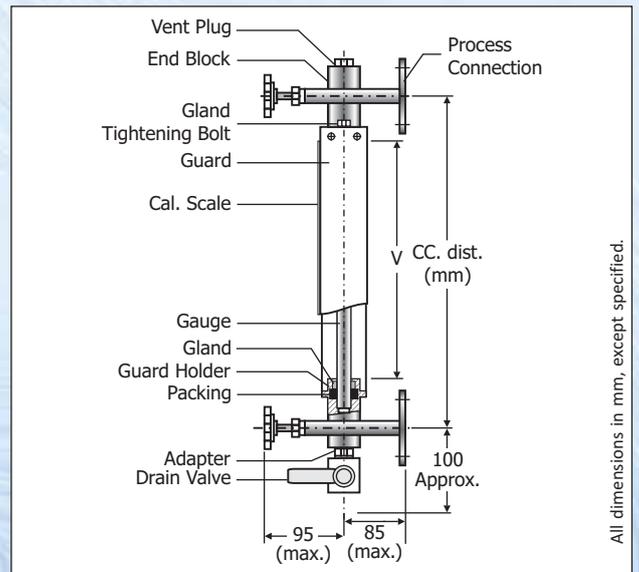
- Gauge : HW Borosilicate Glass 16 / 25mm OD (25mm for Viscous Liquids)
- End Block MOC : CS / SS 304 / SS 316 / PP / PVDF
- End Block Type : W/o Valve / Offset NV with or W/o Auto Ball Check
- Guards : CS/ SS 304 / FRP C-Channels or Tie-Rods
- Gland MOC : CI / SS 316 / PP with PVDF insert
- Packing : PTFE
- Process conn. : ¼" / 1" Flanged (ANSI 150#) or BSP Screwed
- Vent / Drain : Plug / Ball valve
- Calibrated Scale : Polycarbonate (LC=2mm) / SS(LC=10mm)
- CC Dist. : 3000mm in Single Length, Large CCD's thru' Coupler
- Visibility : CC Dist - 150mm
- Maximum Temp. : 200°C (Metallic)/100°C (PVDF)/70°C(PP)
- Test Pressure : 10 Kg/cm² (Metallice) / 2 Kg/cm² (at amb temp) (PVDF / PP MOC)

Options :

- Auto Ball Check : Ø10 mm SS 316 ball (Metallic MOC)/ PTFE (PVDF & PP MOC)
- Glass Protector : 3mm thick Perspex Shield
- Frost Free Extn. : Perspex Shield 20mm thk with 35mm Extension
- Illuminator : 15W Bulb mtd on 1200mm long Reflector x 220VAC Supply with Cast Al Ip65/Ex-P Gr IIA & IIB or IIC Enclosure (Multiple Illuminators for CCD's >1200mm)
- Jacketing : ¼" SS 304 pipe with Ferrule & Lock Nut

MOC's in CI / CS are Epoxy Coated

Schematic diagram :



All dimensions in mm, except specified.

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.

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