Reflex / Transparent Flat Level Gauge

We are introducing our **Reflex Level Gauge / Transparent Level Gauge** provides direct observation of liquid level in a tank/vessel rising and falling level of the liquid inside the tank/vessel can be observed through the glass assembled in the gauge. Our Gauge have metallic protection which making it unbreakable, robust & sturdy.

It is designed for clear & safe visual indication of liquid level in tank/vessel under high temperature & pressure conditions.This Liquid Level Gauge use the R-form sight glasses. One side surface of Reflex Glass to use flat glass has several grooves for reflecting prism.

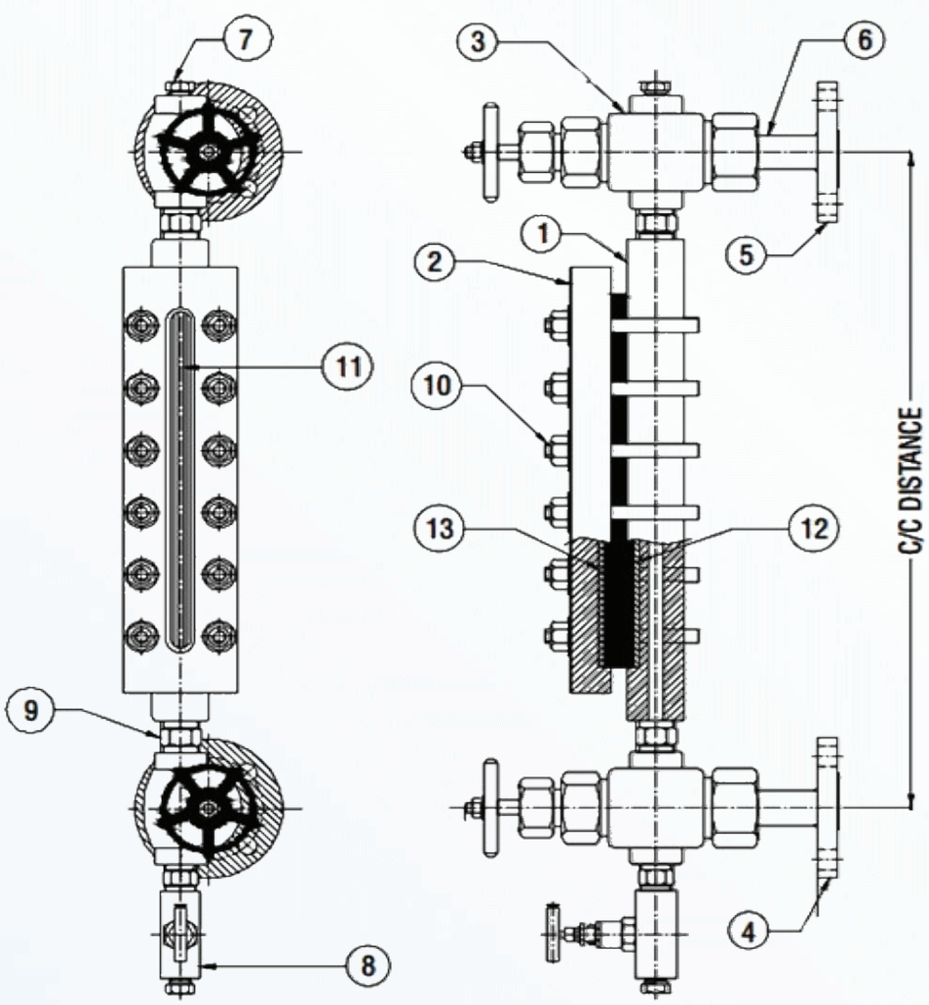
The most advantage of this type is for easy level reading of boiling liquids. When liquids are boiling, their bubbles make the surface level blurry. The manual adjustment of isolation valve at the input of the media entering the chamber reduces the bubbling. Therefore, the level gauge ease to read the level or bubbling liquids.

Operation & Construction

Reflex glass level gauges working principle is based on the light refraction and reflection laws. Reflex glass level gauges use glasses having the face fitted towards the chamber shaped to have prismatic grooves with section angle of 90°.When in operation, the chamber is filled with liquid in the lower zone and gases or vapors in the upper zone; the liquid level is distinguished by different brightness of the glass in the liquid and in the gas/vapor zone. The reflex level gauges do not need a specific illumination: the day environmental light is enough. Only during the night an artificial light must be provided.

Reflex Liquid Level Gauges, designed and built for a wide range of high temperature and high-pressure applications. Our reflex level gauge is used to make; besides other applications include observation of the level of corrosion-proof and chromatic liquids.

The Reflex Gauge is assembled firmly with gasket, reflex glass, cushion gasket and gauge cover on the body by U-bolts



1 Liquid Chamber
2 Cover Plate
3 Isolation Valve
4 Inlet Process Flange
5 Outlet Process Flange
6 Tail Piece
7 Vent Plug
8 Drain Valve
9 Nipple
10 Fastener
11 Reflex Glass
12 Gasket
13 Cushion

Technical Specification

Type of Gauge	Reflex / Transparent Flat Level Gauge
Liquid Chamber	CS / SS304 / SS316 / SS316L / PP (CS Reinforced & Rubber Lining)
Cover Plate	CS / SS304 / SS316 / FRP
Process Connection	Flanged/ Screwed/ Socket Weld and other on as per request
Packaging	CAF / CNAF / PTFE / Graphoil (SS304 & SS316)
Pressure Range	Low Pressure - 30 kg/cm² / Medium - 90 kg/cm² High Pressure - 165 kg/cm² / Very High - 200 kg/cm²
Gauge Glass	Toughened Borosilicate glass
Vent	½" Plugged / ½" Needle Valve / ½" Ball Valve / ½"Gate Valve
Drain	½" Plugged / ½" Needle Valve / ½" Ball Valve / ½"Gate Valve
Drain	½" Plugged / ½" Needle Valve / ½" Ball Valve / ½"Gate Valve
Isolation Valve	Needle Valve SS 304/SS316/SS316L
Scale MOC	Acrylic / SS 304 / SS316
Maxi. Temperature	70 °C (For PP) / 400 °C (CS /SS 304 / SS316)
Maxi. CC Distance	3000 mm
Special	PTFE lined on CS & SS304 Wetted Parts - Flange orientation

Silent Features

- Reflex level gauge applicable Upto 100 kg/cm and Upto 400 °C
- For applicability in critical acidic ,Non acidic & in High Temperature & Pressure zone.
- Toughened borosilicate glass with serrations.
- PTFE lined gauge for corrosive liquids.
- Applicable for Refinery, Petrochemical, Chemical, Power, Fertilizer, Food & Pharma, Metal Industry application.

Model Identification

RLG /TFLG - [ ][ ][ ][ ][ ][ ][ ]

CC Distance in mm

Process Connection Orientation
- Top X Bottom - **T**
- Side X Side - **S**
- Left X Left - **L**
- Right X Right - **R**

Pressure Range
- Low (30 kg/cm²) - **L**
- Medium (90 kg/cm²) - **M**
- High (165 kg/cm²) - **H**
- Very High (200 kg/cm²) - **V**

Liquid Chamber
- CS - **C**
- SS304 - **4**
- SS316 - **6**
- SS316L - **L**
- PP - **P**

Cover Plate
- CS - **C**
- SS304 - **4**
- SS316 - **6**
- FRP - **F**

Process Connection Size
- 1/2 ” - **A**
- 3/4” - **B**
- 1” - **C**
- 1-1/2” - **D**
- 2” - **E**
- OTHERS - **O**

Process Connection Type
- ASME 150# Flange - **1**
- ASME 300# Flange - **2**
- ASME 600# Flange - **3**
- BSP (M) Screwed - **4**
- NPT (M) Screwed - **5**
- OTHERS - **O**

Model Identification

Vent & Drain

Plug X Plug - **P**
Plug X Ball Valve - **PB**
Ball Valve X Ball Valve- **B**
Plug X Globe Valve - **PG**
Globe Valve X Globe Valve - **GG**
Plug X Gate Valve - **PT**
Gate Valve X Gate Valve - **TT**
OTHERS - **O**

Isolation Needle Valve

Without Valve - **W**
With Needle Valve - **V**
With Needle Valve & Auto Ball -**B**

Sealing & Cushion Gasket

CAF - **1**
CNAF - **2**
PTFE - **3**
Graphoil SS304 - **4**
Graphoil SS316 - **5**

Fasteners

CS X CS Plated - **A**
SS304 X SS304 - **B**
SS316 X SS316 - **C**
ASTM A 193 Gr. B7/ A 194 Gr. 2H - **D**

Scale Material

Acrylic - **S**
Aluminium - **A**
SS 304 - **4**
SS 316 - **6**