



# Japsin Instrumentation

ISO 9001:2015 CERTIFIED ORGANIZATION



## REFLEX LEVEL GAUGES



### Features:-

- Reflex level gauge applicable upto 200 Kg/Cm<sup>2</sup> & up to 400 Deg C.
- Cry Application up to -197 Deg C.
- Toughened borosilicate glass with serrations.
- For applicability in critical, acidic, cryo & temperature zone.
- IBR Certificated device available (Optional: Extra charge).
- NACE, H<sub>2</sub>S, services compatibility applicable.
- Non frost extension.

### Technical Specifications: Technical Data:-

Type of Gauge	a) Low Pressure - 30kg/cm <sup>2</sup> b) Medium Pressure - 100kg/cm <sup>2</sup> c) High Pressure - 200kg/cm <sup>2</sup>
Mounting Orientation	Top - Bottom Vertical Side - Side Right Side - Side Left Side - Side Back (Right/Left) 0
Temperature	Upto 400 C
CCD	Max. upto 3000mm
Liquid Chamber	In forged construction: Carbon steel, SS304, SS304L, SS316, SS316L, Monel, Titanium, Inconel 600, Hastelloy C, PolyPropylene, Other on request (Subject to pressure & Temperature Condition)
Cover Plate	In forged construction: Carbon steel, SS304, SS304L, SS316, SS316L, Monel, Titanium, Inconel 600, Hastelloy C, PolyPropylene
Cushion	CAF, PTFE, Grafoil with SS prignated
Gasket	CAF, PTFE, Grafoil with SS prignated
Fastner	SS, ASTM A 193 Gr B7 / A194 Gr 2H / Anodized Aluminium (for PP moc)
Scale	Aluminium anticorrosion powder coated and SS engraved in mm
Glass	Applicable till 320°C as per DIN 708 / 7081, BS 3463, JS B 8211, Toughened Borosilicate glass
Process Connection	Screwed / Flanged / Socket Weld and other on request.

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Isolation	Valve Auto Ball Check Valve a) Screwed Bonnet offset construction suitable upto 50 kg/cm <sup>2</sup> b) Bolted Bonnet offset construction suitable above 50 kg/cm <sup>2</sup> c) Material Construction as per wetted part
Vent	½ Plugged   ½" Needle Valve   ½" Ball Valve   ½" Globe Valve   ½" Gate Valve
Drain	½ Plugged   ½" Needle Valve   ½" Ball Valve   ½" Globe Valve   ½" Gate Valve

## Concept and Principle of operation:

- Liquid 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.
- Reflex Liquid Level Gauges use the R-form sight glasses. One side surface of Reflex Glass to use flat glass has several grooves for reflecting prism.
- The principle of the Reflex Glass is based on the difference in the refractive indices of liquid and gas or in particular of water and steam.
- Liquid level shows conspicuously dark hard colour for liquid space and light white colour for empty space. These Reflex series are not used with a mica shield.
- The Reflex Gauge is assembled firmly with gasket, reflex glass, cushion gasket and gauge cover on the body by U-bolts.
- 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 most advantage of this type is for easy level reading of boiling liquids. When liquids are boiling, their bubbles make the surface level indistinct.
- 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.
- It also provides advantages for highly dense and viscous liquids, as the body is made of forged construction only.
- This level gauge is designed and manufactured for easy and accurate reading the liquid level of highly foamy liquids.
- The gauge has a relatively spacious internal area where foamy liquid is held from forming foams.

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