

REFLEX LEVEL GAUGE - LTRG01

Description

Reflex Level Gauges are used to observe visually the level of various liquids in high pressure and temperature environments.

Operating Principle

Reflex Level Gauges is based on the difference in the refractive indices of liquid and vapor. The liquid column is contained within the recess of the liquid chamber behind the sight glass, which is clamped to the gauge body. The sight glass has prismatic right-angled grooves on the side facing the liquid and vapor space. Light rays entering from outside the gauge are either absorbed or reflected depending upon whether they enter the liquid or vapor space. When the ray of light encounters the surface of one of the grooves in the vapor space, it is reflected to the opposite surface of the grooves and from there, totally reflected back to the direction of observation.

Thus, vapor space appears as silvery white. When the light ray encounters the surface of the grooves in the liquid space, it is totally absorbed; thereby making the liquid behind the glass appears black.

Available Sizes : with Non IBR & IBR Certificates



Specifications

Type	Reflex/Sight
Mounting	Side
C-C Distance	2000mm (more if required)
Process Connection	Flange / Thread
Chambers	SS/CS/MS/PP/PTFE
Valve Type	Ball Check / Auto Shut -Off
Vent / Drain	½" NPT Plug/Needle Valve
U bolts & nuts	MS, SS304, SS 316
Gaskets	CAF,PTFE
Glass	Tempered borosilicate
Maximum Temperature	Up to 200°C, others on request
Maximum Pressure	Up to 100 Kg/cm ²

Application

Suitable for high temperature & pressure application and corrosive or colorless liquid under critical conditions.