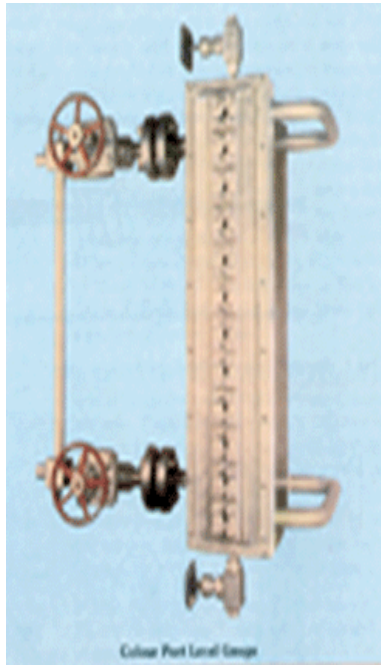
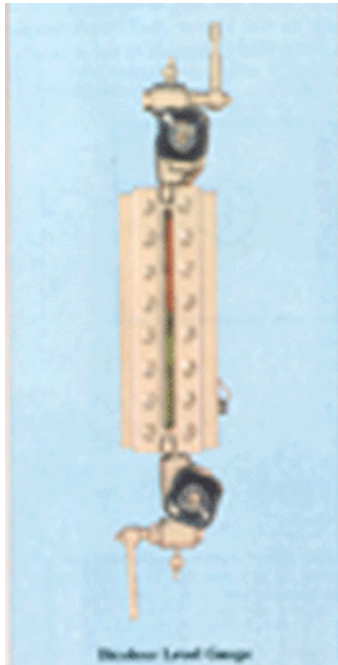


Bicolour / Colour Port Type Level Gauges

Bicolour and Colour Port Level Gauges are basically Through Vision type Level Gauges having a Taper type gauge body to get the bicolour effect.



Features :

- Imported superior Borosilicate glasses (Aluminosilicate disc glasses in case of Colour Port type).
- Standard or 3 Piece Covers (for Bicolour Type), 4 bolt covers (for Colour Port type) for high pressure applications.
- Ball Check arrangement as optional.
- Engraved Aluminium/ Stainless Steel Scale (optional).
- Good Visibility even upto 20 M below vessel location.
- Chain operated valves if required.
- Expansion Loops in case of high pressure and temperature applications.

- Tie-bar/ Stand Pipe for added robustness, more compactness & better circulation.
- High quality forged parts in Carbon Steel/Stainless Steel.
- Non-flameproof or flameproof Illuminators (as per IS 2148 : 2004 for Gr. IIA, IIB or IIC Gases) fitted in stainless steel casing.
- High quality (stained 'first' quality or 'A' quality) Mica.
- IBR/ Lloyds Certificate (if required).
- Colour Port type visibility per port is 20 mm and Centre to Centre distance between adjacent ports is normally 75 mm.

Applications :

Clear non-viscous liquids, normally used for Boiler Drum Level Indication, specially when level is required to be observed at operation floor level.

Principle of Operation :

The Bi-Colour effect is obtained by principle of double refraction. The Illuminator, kept on the back side of the taper type Gauge Body, has white ground glass plate throughout its length after which there are Red & Green Coloured filter glasses side by side. Straight light rays which pass through Red filter continue straight when passing through steam/air/gas space in the Gauge Body & hence emerge through the Gauge Body straight to the line of vision. On the other hand, slightly angular rays which pass through Green filter become straight when passing through water/ liquid space in the Gauge Body (due to double refraction). Hence for the viewer, a Green Column represents the liquid level and a Red Column above it represents steam/air/gas.

Specifications :

- Construction of Gauge Body, Valves etc. – Carbon Steel, SS 304, SS 316.
- In case of Bi-colour type the glasses are normally 340 mm or 250 mm long. 34 mm wide & 17 mm thick.
- Imported Klinger or equivalent non-asbestos Gaskets in case of Bi-colour type.
- For Colour Port Level Gauges, Round Glass Discs are used as against oblong Glasses used for Bicolour Level Gauge, fitted with spirally wound gasket with Graffoil filter & Spring Cones.

- Gauge Body can have ¾" NPT(F) Connections for offset type valves in case of top & bottom connections, Straight or Offset type Valves in case of Top side & Bottom side Valves fitted through Expansion Loops.
- Handwheel operated Valves are normally bolted bonnet type (safety ball sealing arrangements – optional).
- Ultimate Vessel connections can be Flanged/ SW / BW.
- Illuminators with 40 W Spot Light type bulbs per port in case of non-Flp colour port type. 40/110 W bulbs in case of Bicolour type (non Flp or Flp) & Colour Port Type (Flp). Two 100 W bulbs for one 340 mm glass section/ One 100 W bulb for One 250 mm glass section or 3 Ports.
- Weather-shed to be provided above Illuminators (in case of open air installation) as Illuminator Casing with Ventilating Louvers is not weatherproof.
- Viewing min. 2 M away in case of direct viewing. Reflector Mirror Assembly (in stainless steel casting) & Viewing Mirror on Stand Pipe in case of viewing at operating floor. Camera viewing system as alternative.

MODEL NUMBER OF BICOLOUR & COLOUR PORT LEVEL GAUGES

Type	Design of Taper Gauge Body.	Pressure Class	Material of Gauge Body.	Type of Valves & Combination	Top Valve Design.	Bottom Valve Design	Material of Valve.	Illuminator Arrangement.	Special Feature
TB – Bi-Colour Type.	5.90/100mm Wide.	4.10/15 kg /cm ²	4.SS 304	1.Offset type at Top & Bottom.	0.Without Valves		4.SS 304	1.Standard Bicolour Illuminator.	(Tie Bar / Stand Pipe. etc.)
TC – Colour Port Type.	6.120/130 mm Wide.	5.20/30 kg /cm ²	6.SS 316	2.Offset type at Top Side & Bottom Side.	1.Globe type Handwheel Operated.		6.SS 316	2.As above with Reflector & Viewing Mirror.	
	7.150/160 mm Wide.	6.50/65 kg /cm ²	8.Carbon Steel.	4.Straight type at Top Side & Bottom.	2.As above but High Pr. Type.		8.Any other.	5.Flameproof Bicolour Illuminator(FLP IIA, IIB).	
		7.80/110 kg /cm ²	9.Any Other.	7.Straight type at Top Side & Bottom Side.	4.Globe type Chain Operated.			6.As above with Reflector & Viewing Mirror.	
		8.High Pr. Type.		8.Expansion loop at Top only. Straight/Offset Valves.	9.Any other.			7.Flameproof Bicolour Illuminator(FLP IIC)	
				9.Expansion loop at Top & Bottom-Straight/ Offset Valves.				8.As above with Reflector & Viewing Mirror.	
								9.Any Other.	

Since improvements are made form from time to time , the specifications are liable to change without notice.

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