



Reflex

Transparent

Working Principle & Operation

Reflex level gauges working principle is based on the light refraction and reflection laws. Transparent level gauge employs two transparent sight glasses, one on each side of the liquid chamber. Light is permitted to pass through, allowing observation of level, color and clarity of the liquid. The liquid level is indicated as a result of difference in the transparent properties of the two media.

Features

- Simple & rugged design
- Easy for installation & maintenance
- Stainless steel version (optional)
- High pressure version (optional)

Applications

- Chemical Industries
- Process Industries
- Power Industries
- For clear liquids in pressurized chamber or boiler drum

Specifications

Standard Version

Mounting	:	Side
Body material	:	Carbon Steel
C. C. distance (± 3 mm)	:	300 mm to 4000 mm
Process connection	:	1" 150 # Flanged
Scale	:	Aluminum
Drain & vent	:	1/2" NPT (M) Plugs
Auto shut off ball valve	:	Screwed Bonnet type
Gaskets	:	Compressed Asbestos Fibre (CAF)
Sight glass	:	Toughened Glass
Maximum Operating Temperature	:	Up to 120°C
Maximum Operating Pressure	:	20 kg/cm ²

How To Order - Ordering example: 3411LG: REFL/TRAN.R.SS.B.F.2NPM.1.1.A.800mm

Ordering Information : Specify model no., Liquid, Specific Gravity, Operating Pressure & Operating Temperature.

Basic Model	3411LS : MF
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Code	Type	Code	Type
R	Reflex	T	Transparent

Code	Body Material & Cover Plates				
MSMS	MS x MS	SS3	AISI 304 SS X AISI 304 SS	SSMS	AISI 316 SS x MS
SS3MS	AISI 304 SS x MS	SS	AISI 316 SS X AISI 316 SS	CD	Customized Design (Non - Standard)

Code	Sight Glass
B	Borosilicate Glass (standard) Max. Pressure 20 kg/cm ² & Temperature up to 120°C
I	Imported (Max. Pressure 100 kg/cm ² & Temperature up to 400° C

Code	Gasket	Code	Gasket	Code	Gasket
F	CAF (Standard)	P	PTFE	G	Graphoil

Code	Process Connection	Flanged Connections (As per ANSI B 16.5)					
2NPM	½" NPT (M)	B09	½" 150# RF	B21	1" 150# RF (Standard)	B39	2" 150# RF
2NPF	½" NPT (F)	B10	½" 300# RF	B22	1" 300# RF	B40	2" 300# RF
34NPM	¾" NPT (M)	B11	½" 600# RF	B23	1" 600# RF	B41	2" 600# RF
34NPF	¾" NPT (F)	B15	¾" 150# RF	B33	1½" 150# RF	B51	3" 150# RF
1NPM	1" NPT (M)	B16	¾" 300# RF	B34	1½" 300# RF	B52	3" 300# RF
1NPF	1" NPT (F)	B17	¾" 600# RF	B35	1½" 600# RF	B53	3" 600# RF

Code	Top Side Vent	Flanged Connections (As per ANSI B 16.5)					
1	Plug - ½" NPT (M) (Standard)	B09	½" 150# RF	B21	1" 150# RF (Standard)	B39	2" 150# RF
4	Needle Valve - ½" NPT (F)	B10	½" 300# RF	B22	1" 300# RF	B40	2" 300# RF
5	Ball Valve - ½" NPT (F)	B11	½" 600# RF	B23	1" 600# RF	B41	2" 600# RF
C	Customized Design (Non-Standard)	B15	¾" 150# RF	B33	1½" 150# RF	B51	3" 150# RF
		B16	¾" 300# RF	B34	1½" 300# RF	B52	3" 300# RF
		B17	¾" 600# RF	B35	1½" 600# RF	B53	3" 600# RF

Code	Bottom Side Drain	Flanged Connections(As per ANSI B 16.5)					
1	Plug - ½" NPT (M) (Standard)	B09	½" 150# RF	B21	1" 150# RF (Standard)	B39	2" 150# RF
4	Needle Valve - ½" NPT (F)	B10	½" 300# RF	B22	1" 300# RF	B40	2" 300# RF
5	Ball Valve - ½" NPT (F)	B11	½" 600# RF	B23	1" 600# RF	B41	2" 600# RF
C	Customized Design (Non-Standard)	B15	¾" 150# RF	B33	1½" 150# RF	B51	3" 150# RF
		B16	¾" 300# RF	B34	1½" 300# RF	B52	3" 300# RF
		B17	¾" 600# RF	B35	1½" 600# RF	B53	3" 600# RF

Code	Material Of Scale		
A	Aluminum (Standard)	S	AISI 304 SS

Code	Center To Center Distance
XX	Please specify in mm e.g. Write 800 for 800 mm Center to Center Distance (This gauge will be supplied from 300 mm to 4000 mm)

Note 1 : Visible length shall be less by 100 mm to 150 mm than Center to Center Distance.

Code	Options		
AA	Offset Valve- Screwed Bonnet with Auto Ball Check	AC	With Anti Frost*
AB	Offset Valve - Bolted Bonnet with Auto Ball Check	AD	Illuminator (W/P-IP-65)*
		AE	Illuminator (Ex-proof IIA & IIB +IP-65)*

For non standard products / optional items, please contact factory for delivery and minimum quantity of order. (* Available for Type "T" only)

** Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.

Note: Design and Specifications subject to change without prior notice.