

# IBR APPROVED REFLEX FLAT GLASS GAUGE "RFGB"

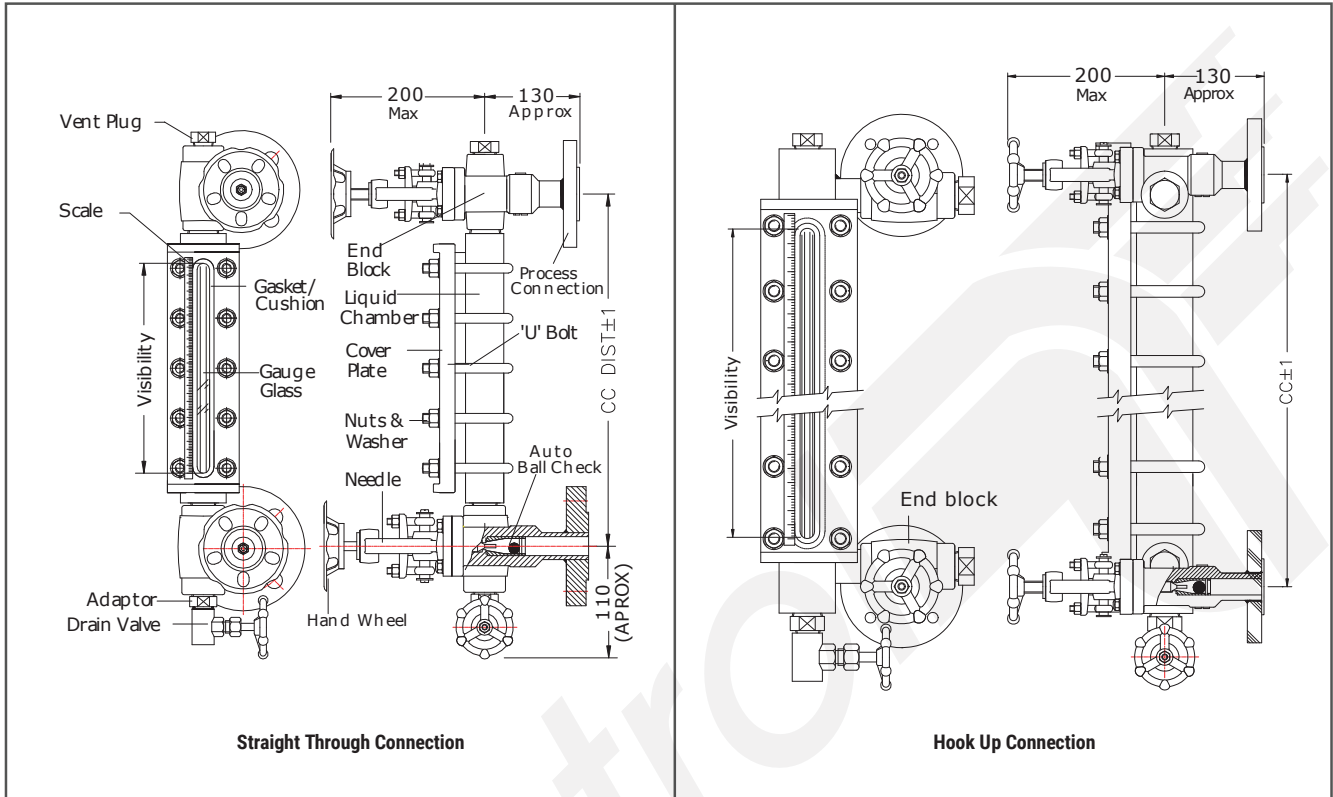
*Reflex glass gauge is designed for safe & positive visual indication of liquid level in vessel under high pressure & temperature conditions in boiler applications.*



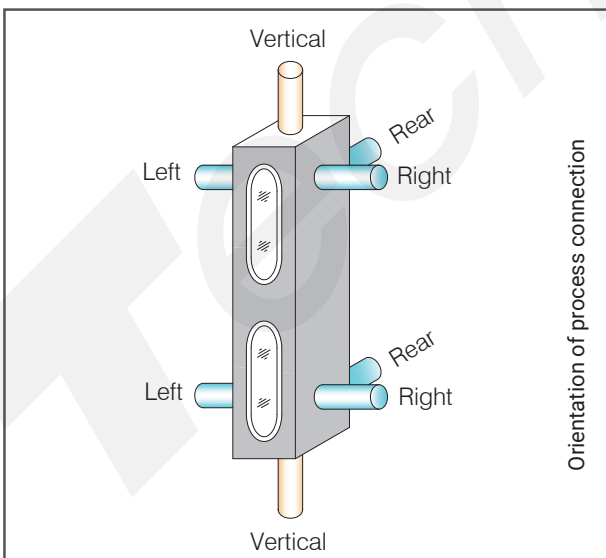
Straight Through Connection

Hook Up Connection

## SCHEMATIC DIAGRAM



## PROCESS CONNECTION ORIENTATION



### STANDARD CC DISTANCE X PROCESS CONN.

SL	CC Dist (mm)	Process Connection
1.	320	3/4" NB ASME 300 # Flange
2.	400	1" or 3/4" NB ASME 300# or Table 'H' Flange
3.	500	1" NB Table 'H' Flange
4.	508	1" NB ASME 300# or Table 'J' Flange

## SPECIFICATIONS

Gauge Glass	: Toughened borosilicate (30W) or (34W)
Liquid Chamber	: CS SA516 Gr. 70 or SS316
Cover Plate	: CS ASTM A105 or SS316
Process Connection MOC	: CS SA516 Gr. 70 or CS ASTM A105 or SS316
Process Connection	: 3/4" or 1" NB x ASME 150#, 300#, 600# RF or WNRF Flange or 300# Stub end Flange or Table 'H' or 'J' Flange or Socket weld 3000 #
Process Conn. Orientation	: Rear-rear
Isolation Valve	: CS ASTM A105 or SS316 x Offset Needle Valve x Bolted Bonnet (OS) with Auto Ball Check (wheel CS fabricated)
Gauge Connection	: 1) 1/2" Straight through x Screwed Nipple or 3/4" Union (top-bottom chamber connection) 2) 1" Hook up x Welded Nipple (side-side chamber connection)
Process Conn. Orientation	: Rear x Rear, Left x Left, Right x Right, Vertical x Vertical.
Vent	: 1/2" NPT Plug
Drain	: 1/2" NPT Globe or Gate or Needle Valve
CC Distance	: 320, 400, 500 & 508 mm, others on request
Calibrated Scale	: SS304 (LC = 5 mm)
Max. Optg. Temperature	: 243 °C
Max. Operating Pressure	: upto 32 kg/cm <sup>2</sup>
Max. Test Pressure	: upto 64 kg/cm <sup>2</sup>
Gasket	: CAF, CNAF or Graphoil SS 304 or 316 Reinforced
U Bolts & Nuts	: A193, Gr. B7, A194 Gr. 2H
Accessories	: Counter Flanges with Nut Bolts & Gaskets

## APPLICATIONS

- ▶ Boiler Drums, Boiler Feed Water, Blow Down Tanks and Dearators

## MODEL IDENTIFICATION

RFGB -																				
<b>1. Body (Liquid Chamber) MOC</b>																				
CS SA516 Gr.70	B																			
SS316	S																			
Others	O																			
<b>2. Cover Plate MOC</b>																				
CS ASTM A105	A																			
SS316	S																			
Others	O																			
<b>3. Gauge Glass</b>																				
Tempered Borosilicate (30W)																				1
Others																				0
<b>4. Sealing Gasket/ Cushion</b>																				
CAF																				1
CNAF																				2
Graphoil SS316 reinforced																				3
Graphoil SS304 reinforced																				4
<b>5. Isolation Valve MOC</b>																				
CS ASTM A105																				A
SS316																				S
<b>6. Vent x Drain</b>																				
½" NPT Plug x ½" NPT Globe Valve																				1
½" NPT Plug x ½" NPT Gate Valve																				2
½" NPT Plug x ½" NPT Needle Valve																				3
Others																				0
<b>7. Gauge Connection</b>																				
Straight Through (top-bottom) x Screwed Nipple																				1
Hook-up (side-side) x Welded Nipple																				2
Others																				0
<b>8. Process Connection MOC</b>																				
CS SA516 Gr.70																				B
SS316																				S
Others																				O
<b>9. Process Connection Size</b>																				
¾"																				1
1"																				2
Others																				0
<b>10. Process Connection Type</b>																				
ASME 150 # RF Flange																				A
ASME 300 # RF Flange																				B
ASME 600 # RF Flange																				C
ASME 150 # WNRF Flange																				D
ASME 300 # WNRF Flange																				E
ASME 600 # WNRF Flange																				F
ASME 300 # Stub End Flange																				G

Table 'H' Flange	H			
Table 'J' Flange	J			
Socket Weld 3000#	K			
Others	O			
<b>11. Process Connection Orientation</b>				
Rear x Rear	B			
Left x Left (RFG or with Straight Thru Conn. in TFG)	L			
Right x Right (RFG or with Straight Thru Conn. in TFG)	R			
Others	O			
<b>12. Bolts x Nuts</b>				
A 193 Gr. B7 x A 194 Gr. 2H			1	
Others			0	
<b>13. Calibrated Scale MOC</b>				
Not Provided				W
SS304 scale in mm (LC = 5 mm)				N
Others				O
<b>14. Center to Center Distance</b>				
320 mm			1	
400 mm			2	
500 mm			3	
508 mm			4	
Others			0	
<b>15. Accessories</b>				
Not Provided				W
Counter Flanges (CS) + Nuts, Bolts (CS) + Gaskets (CAF)			1	
Others			0	

## ORDERING INFORMATION

Model No. x Operating Temperature & Pressure

\*All dimensions in mm except specified

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