

Working Principle & Operation

Tubular level gauge employ the principle of indication of liquid level in a vessel by direct communication.

With water, clear liquids the surface is only visible through the vibration of the meniscus and with colored liquids, visibility improves in relation to the intensity of the liquid color. Construction wise a Tubular level gauge comprises a transparent Borosilicate glass tube, seals, end blocks/valves, and rectangular C-channel (to protect the glass tube).



Features

- Simple design
- Available in various materials
- Available in the range up to 3000 mm

Applications

- Chemical Industries
- Pharmaceuticals
- Petrochemicals
- Fertilizer Industry

Specifications

Standard Version

Mounting	:	Side
Body material	:	Carbon Steel
Cover plates	:	Carbon Steel
Scale	:	Aluminum
C. C. distance (3± mm)	:	350 to 3000 mm
Process connection	:	1" 150 # Flanged
Drain & vent	:	½" NPT (M) Plugs
Auto shut off ball valve	:	Screwed Bonnet type
Gaskets	:	PTFE
Sight glass	:	19 mm OD Borosilicate glass tube
Maximum operating temperature	:	200°C (CS/SS), 70°C (PP) & 100°C (PTFE Lined)
Maximum operating pressure	:	10 kg/cm ² (CS/SS) & 2 kg/cm ² (PP/PTFE Lined)



With Offset Pattern
Forged Body Isolation Valve



With Straight Pattern
Bar Stock Body Isolation
Valve



TEE (Without
Valve)

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

How To Order - Ordering example: 3411LG: TUB.R.CS.CS.2NPM.1.1.A.800mm

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

Basic Model		3411LG : TUB					
Code	Type						
R	Rectangular 'C' Channel						
Code	Tube Guard Material						
CS	CS (Standard)	SS3	AISI 304 SS	SS	AISI 316 SS	PP	Polypropylene
Code	End block Material / Wetted Parts						
CS	Carbon Steel (Standard)						
SS3	AISI 304 SS						
SS	AISI 316 SS						
PP	Polypropylene						
Code	Process Connection	Flanged Connections (As per ANSI B 16.5)					
4NPM	½" NPT (M)	B09	½" #150 RF	B21	#150 "1 RF (Standard)	B39	#150 "2 RF
2NPF	½" NPT (F)	B10	½" #300 RF	B22	#300 "1 RF	B40	#300 "2 RF
34NPM	¾" NPT (M)	B11	½" #600 RF	B23	#600 "1 RF	B41	#600 "2 RF
34NPF	¾" NPT (F)	B15	¾" 150# RF	B33	#150 "½1 RF	B51	#150 "3 RF
1NPM	1" NPT (M)	B16	¾" 300# RF	B34	#300 "½1 RF	B52	#300 "3 RF
1NPF	1" NPT (F)	B17	¾" 600# RF	B35	#600 "½1 RF	B53	#600 "3 RF
Code	Top Side Vent	Flanged Connections (As per ANSI B 16.5)					
1	Plug - ½" NPT (M) (Standard)	B09	½" #150 RF	B21	#150 "1 RF (Standard)	B39	#150 "2 RF
4	Needle Valve - ½" NPT (F)	B10	½" #300 RF	B22	#300 "1 RF	B40	#300 "2 RF
5	Ball Valve - ½" NPT (F)	B11	½" #600 RF	B23	#600 "1 RF	B41	#600 "2 RF
		B15	¾" 150# RF	B33	#150 "½1 RF	B51	#150 "3 RF
		B16	¾" 300# RF	B34	#300 "½1 RF	B52	#300 "3 RF
		B17	¾" 600# RF	B35	#600 "½1 RF	B53	#600 "3 RF
Code	Bottom Side Drain	Flanged Connections (As per ANSI B 16.5)					
1	Plug - ½" NPT (M) (Standard)	B09	½" #150 RF	B21	#150 "1 RF (Standard)	B39	#150 "2 RF
4	Needle Valve - ½" NPT (F)	B10	½" #300 RF	B22	#300 "1 RF	B40	#300 "2 RF
5	Ball Valve - ½" NPT (F)	B11	½" #600 RF	B23	#600 "1 RF	B41	#600 "2 RF
		B15	¾" 150# RF	B33	#150 "½1 RF	B51	#150 "3 RF
		B16	¾" 300# RF	B34	#300 "½1 RF	B52	#300 "3 RF
		B17	¾" 600# RF	B35	#600 "½1 RF	B53	#600 "3 RF
Code	Material Of Scale						
A	Aluminum (Standard)	SS	AISI 304 SS	AC	Acrylic		
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 350 mm to 3000 mm						
Code	Options						
OP	Offset Pattern Valve - Forged Body with Auto Ball Check			ST Tag Plate in SS			
SP	Straight Pattern Valve - Bar Stock Body			MTC Material Test Certificate			
TE	TEE (without valve)			HTC Hydro Test Certificate			
PP	PP Offset Pattern Valve with Auto Ball Check						

For non standard products/optional items, please contact factory for delivery and minimum quantity of order.

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

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