

Mini Tubular Level Gauge for Liquids - 'MTTG'



Pune Techtrol Pvt Ltd
Innovating Level Controls Since 1984

It is compact & economical gauge for visual indication of liquid levels in small tanks

Construction & Operation (Fig 1)

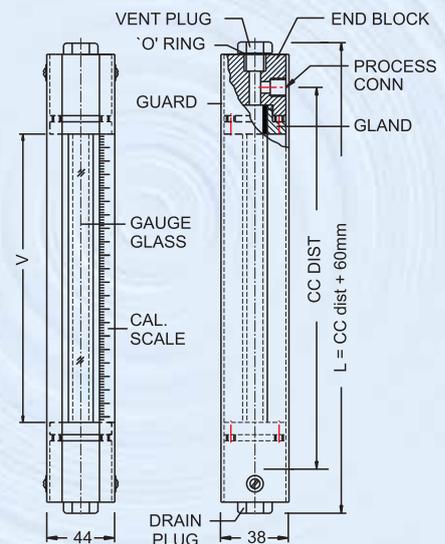
Consists of a toughened borosilicate gauge glass tube fitted between two metallic end blocks through a leak proof gland packing system. Guards are provided in the form of 'C' channels, fixed on the end blocks to protect gauge glass from accidental blows. The gauge is side mounted to tank so as to form a closed loop causing tank liquid to seek its level in the gauge.



Specifications

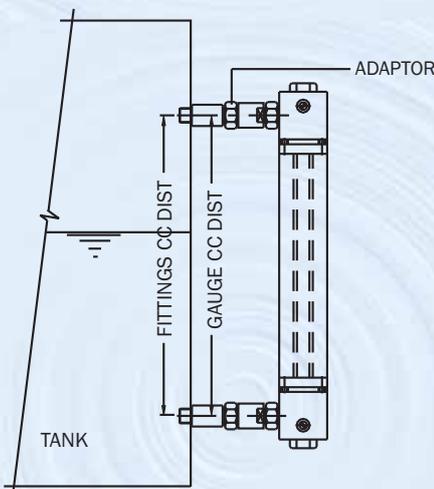
End Blocks	: SS304 Or SS316
Process Conn	: 1/4"BSP (F)
Gauge Glass	: Toughened Borosilicate Glass 16 ODx 3mm Thk.
Guards	: MS (Epoxy Powder Coated)
Gland	: MS (Epoxy Powder Coated)
Vent & Drain	: 1/4"BSP Plug
Gland Packing	: Neoprene / Viton O- Ring
Cal Scale	: Polycarbonate (LC=2mm)
CC Dist (Range)	: 100, 200, 250, 300, 350 or 400mm
Visibility	: V = CC Dist - 55mm
Max. Temperature	: 70 °c (Neoprene) OR 100 °c (Viton)
Pressure Rating	: 10 Kg/cm ² at Amb. Temp

Construction (Fig 1)



All dimensions are in mm, except specified

Installation (Fig 2)



The gauge is side mounted to the tank through thread fittings, ensuring that it is mounted in plumb. CC distance between tank fittings should corresponds to CC dist. of gauge, failing which it may cause gauge glass damage / breakage.

Model Identification No

MTTG

WETTED PARTS

- N - SS304
- S - SS316
- O- Others

PROCESS CONN

- 1- 1/4"BSP (F)
- O- Others

PACKINGS

- 1- Neoprene (70 °C)
- 2- Viton (100 °C)
- O- Others

CC DIST.

- A - 100
- B - 200
- C - 250
- D - 300
- E - 350
- F - 400
- O- Others

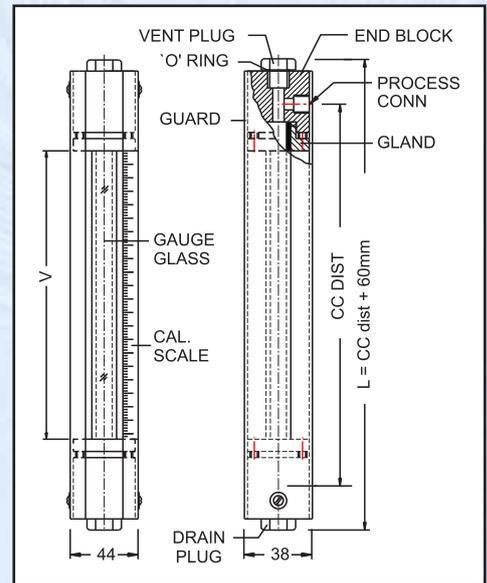
Please read the manual to ensure proper installation and maintenance of gauge. To get best intrinsic value of every Techtrol product it should be used within its specified limits. Besides, carry out periodic preventive maintenance to extend the working life of your instrument.

Pre-Installation Check

- ☑ Ensure that supplied gauge is in accordance to required specification.
- ☑ Visually examine glass tube for any cracks or damages.
- ☑ If the gauge is all right, proceed for installation.

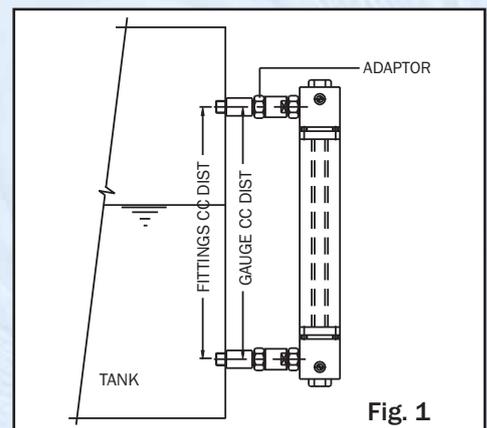
Installation (Fig. 1)

1. Select suitable location on tank where vibrations are minimum.
2. Ensure tank thread fittings match with gauge connections.
3. The gauge is side mounted to tank, ensuring it is mounted in plumb.
4. CC distance of tank should correspond to CC dist of gauge.
5. Apply suitable thread sealant between the threads before tightening thread fittings to ensure zero leakage.



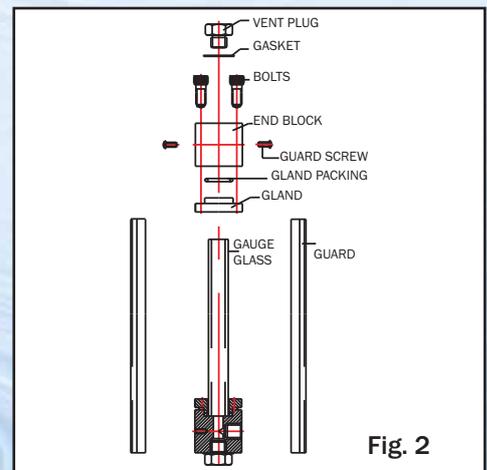
Maintenance

1. Periodically examine gauge glass for cracks/damages. Replace gauge glass if found damaged.
2. Gauge glass tube can be cleaned by opening vent & drain plugs and pouring warm water through vent opening.
3. Periodically examine gauge for any leakages thru tank fittings / drain plug. Tighten fasteners/plug adequately to stop leakage.
4. In case of leakage through gauge glass, replace gland packings.



Replacement of glass tube / gland packing (Fig. 2)

1. Empty the tank and detach gauge from tank.
2. Remove drain, vent, guard screws and gland bolts.
3. Remove gauge glass & gland packings and clean the gauge parts for any dirt or deposits.
4. Discard used gland packings, every time gauge glass is replaced, use fresh gland packings in their place.
5. Place gland packings on both end blocks.
6. Insert gland over the gauge from both sides and fit the gauge between the end blocks and tighten gland bolts adequately.
7. Ensure that gauge glass is held in plumb.
8. Screw side guards to end blocks.
9. The gauge is now ready for use.



Caution

- ☑ Do not use gauge beyond the specified limits of temp & pressure.
- ☑ Replace damaged gauge glass immediately.
- ☑ Do not reuse gland packings.
- ☑ Do not overtight glands as they may damage the glass.

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