

Manual and Installation of L21 series glass level gauges

- before device installation, check the measure body (must be clean)
- seal must be centered in the flanges and fittings
- Tighten the screw connections permitted torque designed for the operating pressure in the tanks
- Each device is pressure tested 1.5 times the operating pressure that is specified in the order
- Check the operational data on the label of the level gauge that correspond to the properties of the measured liquid
- Before start up, make sure the drain plug, air plug and vent cock are closed
- Open the shut-off valves with connecting flanges
- It is now ready for measuring

Glass segments operation

Applications / Use and Care

Please read the following information – it concerns your safety.

Each of our sight and gauge glass carefully manufactured and tested. It can only fill its duties safely and to your complete satisfaction if both the working conditions and information about its assembly and use are taken into account. We are pleased to provide you with some information on this page.

Fittings: You should always observe the manufacturer's instructions for assembling and changing sight and gauge glasses.

The basic fittings and flanges must satisfy the normal requirements for working under temperature and pressure conditions. It is particularly important that the flatness and freedom from distortion of the sealing surfaces can be guaranteed. These must satisfy at least the same requirements as are guaranteed for the sight and gauge glasses. The flatness should be checked when the sealing surfaces have been thoroughly and completely cleaned.

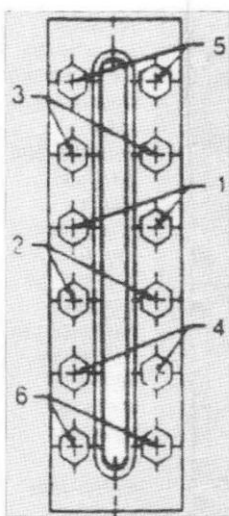
Never reuse a sight or gauge glass that has already been exposed to process conditions.

Sealing material: Always use new gaskets for assembly and use the sealing material recommended by the manufacturer of the fittings.

These gaskets must also be flat and undamaged.

Mica protection shields can be used to increase the working life of sight and gauge glasses and to

allow them to be exposed to higher temperatures. However reflex glasses cannot be protected in this way. During assembly the glass must always be centred in the fitting in order to avoid a glass-metal contact. The correct sequence must always be observed when assembling the glass, gasket and mica protection shield.



Sequence for Tightening Cover Bolts / Nuts
Tightening the Fitting screws:
First tighten the clean and greased nuts by hand. Then tighten them in the sequence shown in the diagram. Always start in the middle

and then work outwards on alternate sides. Finally, tighten the flange bolts or nuts to the exact torque given by the manufacturer.

During operating processes never try to clean the glass by mechanical means, never tighten up the nuts and bolts of the fitting and never perform other work on the fitting.

Transport packing is used to protect the glasses. Please leave the glass in packing until they are required for use

and avoid contact with other glass or metal components.

Sight and gauge glasses which are scratched, chipped, pitted or any other surface damage exist, should never be used.

Sight and gauge glass condition checks should be carried out regularly; when used in new and unknown processes daily. Keep maintenance records and replace the glasses on a regular basis. Look for damage, scratches and loss of substance.

Cleaning the glasses: please only use commercially available glass cleaning agents to clean the glasses. Never use wire brushes, metal scrapers, or other sharp-edged items which could scratch the glass and make it unusable. Opaque and rough glasses which cannot be cleaned with simple cleaning agents should be replaced.

Our aim is to inform and advise our customers. Nevertheless, general values obtained from experience and test results simply cannot be applied to particular and specific applications. Too many factors which we cannot influence play a role. We must therefore ask you to appreciate that no claims can be made which may arise as a result of any advice we may have provided. You are responsible to property care for and maintain the sight glasses.

DESIGN PARAMETRES SHOULD NOT BE EXCEEDED

KEEP SHUT-OFF VALVES FULLY OPEN AT OPERATION NOT TO BLOCK SAFETY BALL FUNCTION

WARNING:

- When installing the level gauge, use a torque wrench, check the level gauge bolting torque of 50 Nm. See the figure for the sequence of tightening cover bolts/nuts.