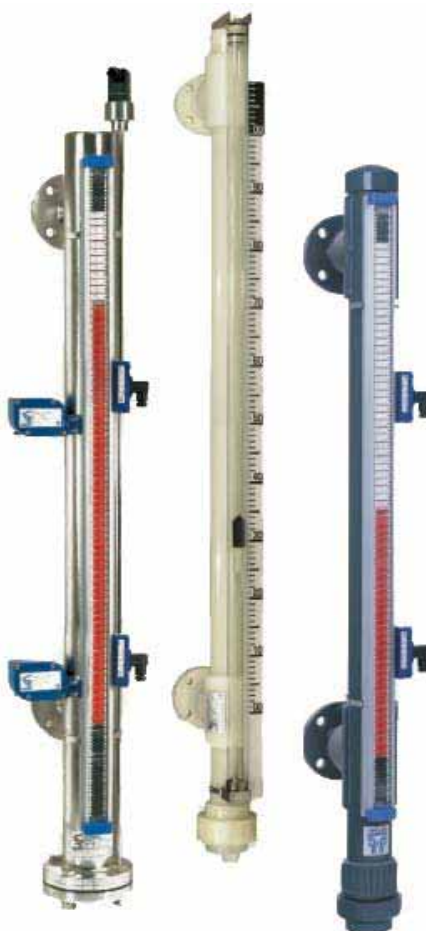




Instructions Manual



The following users manuals are attached:

- AMD Limit Switch
- AMR Limit Switch
- AMM Limit Switch
- APR Limit Switch

LT Series LTL Series

- AAR Limit Switch
- APRV Limit Switch
- ADF Limit Switch
- LTE Limit Switch

TECHNICAL DATA

- Mounting: Vertical, on the side of the tank.
- Fittings: EN 1092-1 DN-25 Flanges
1" BSP/NPT Threads
Others on demand:
- Liquid Density: 0.45 a 3 kg/l
- Liquid viscosity: maximum 1500 mPa.s
- Precision: ± 3 mm
- Materials: EN 1.4404 (AISI-316L). On demand: PTFE, PVC, PP, PVDF
- Pressure: PN-16 (in EN 1.4404)
PN-10 (in PVC y PP)
On demand: PN-400
- Length: Maximum 6000 mm. On demand up to 15000 mm in EN1.4404
- Conforms with the Pressure Equipment Directive 97/23/EC.



This equipment is considered as being a pressure accessory and **NOT** a safety accessory as defined in the 97/23/EC directive, Article 1, paragraph 2.1.3.

OPERATION

The variations of level are followed by the internal float that, by means of a magnetic field, acts on the indicator.

RECEPTION

The LT/LTL series are supplied suitably packed for transport. They are supplied with the float blocked in its bottom position by means of a stop introduced into the lower side coupling.

BEFORE MOUNTING ON THE TANK, THIS STOP MUST BE REMOVED.

INSTALLATION



Important: Check that the maximum working pressure is below the limit shown on the identification label of the equipment. Check that the maximum working temperature of the liquid is within the limits given in the following table.

MATERIALS	LIQUID TEMPERATURE RANGE
EN 1.4404 (AISI-316L)	-20 °C.....150 °C
PVC	0 °C.....45 °C
PP	-10 °C.....90 °C
PVDF	-20 °C.....135 °C
PTFE	-60 °C.....150 °C

The working temperatures are given for an ambient temperature of 20°C.

The fittings to the tank must be ALIGNED and PERPENDICULAR.

Flange bolts should be tightened progressively in a criss-cross manner to avoid creating tensions.

With threaded connections, they should be tightened progressively and together.

For the LT series levels (with a glass tube), it is recommended to remove this tube before mounting the level to the tank. Next, fill the glass tube. Once the level is fitted to the tank, reinstall the glass tube to the level.

This process should be done using the following instructions:

INSTRUCTIONS FOR FILLING THE GLASS TUBE (fig. 1):

1. Remove the Allen screw (1).
2. Withdraw the glass tube from its support and remove the plug at the top (3).
3. Fill the glass tube (4) with the liquid supplied with the level.
4. Insert the plug (3) in the tube and maintain in a vertical position,

MOUNTING THE GLASS TUBE (fig. 1):

1. Check that the rubber seating (5) is in its position.
2. The bottom of the glass tube (4) should rest on the rubber seating (5).
3. Mount the spacer (2, rubber washer) in its position.
4. Assemble the glass tube in its position and screw the Allen screw (1) into the plug (3).
5. The Allen screw should not be very tight, it is sufficient to tighten until a slight resistance is noted.

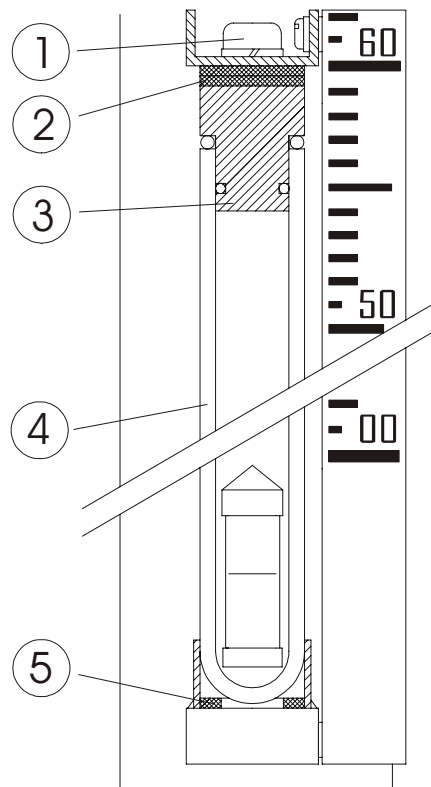
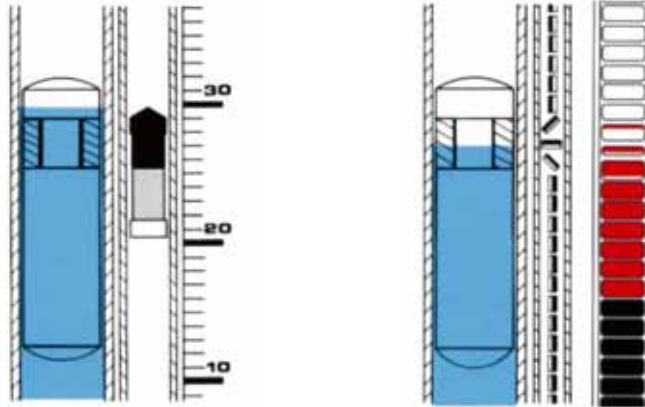


Figure 1

LEVEL READING

For levels with a glass tube the value of the level is read on the scale at the height of the top of the external float. For levels with indication by means of magnetic strips, the reading is taken where the strips change from red to white.



MAINTENANCE

No specific maintenance is required.

WARRANTY

Tecfluid S.A. GUARANTEES ALL ITS PRODUCTS FOR A PERIOD OF 24 MONTHS, after consignment, against all defects in materials and workmanship.

This warranty does not cover failures which can be imputed to misuse, use in an application different to that specified in the order, the result of service or modification by un-authorized persons, bad handling or accident.

This warranty is limited to cover the repair or replacement defective parts which have not been damaged by misuse.

This warranty is limited to the repair of the equipment and all further and eventually following damages are not covered by this warranty.

Any consignment of equipment to our factory or distributor must be previously authorised. The consignment should be done with the equipment well packed, clean of any liquids, grease or hazardous materials. Tecfluid S.A. will not accept any responsibility for damage done during transport.

Together with the equipment, a note should be enclosed indicating the failure observed, the name, address and telephone number of the sender.

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The technical data in this pamphlet is subject to modification without notification, if the technical innovations in the product or manufacturing processes so require.