



Berrington Road, Leamington Spa, Warwickshire, CV31 1NB, UK
Tel +44 (0)19256 466700 Fax +44 (0)1926 450473
Email sales@fozmula.com Website: www.fozmula.com

Type G/LL7 Hydrostatic Liquid Level Gauge

Installation Instructions

GENERAL

The G/LL7 is an open diaphragm hydrostatic liquid level gauge. It is of all stainless steel construction, with a Viton diaphragm. The transmitter sits at the bottom of the tank or liquid vessel, and is connected to a remotely positioned gauge by a small-bore capillary tube. Polyurethane tube is supplied as standard. However a copper or stainless steel capillary can be provided to special order, if required.

The transmitter is normally free standing, but may be fitted with magnets to clamp to the base of steel tanks (for turbulent applications for example). A stainless steel eyebolt allows the transmitter to be lowered into the tank using a chain or cord. It is important that the capillary tube takes no strain during either lowering of the transmitter into the tank, or after installation.

INSTALLATION - POLYURETHANE TUBE

The capillary tube runs from the transmitter (at the bottom of the tank), through the tank top, and on to the remote gauge. The tank top fitting supplied should be used to protect the tube where it emerges from the tank top.

Alternatively, a double-ended capillary bulkhead connector can be riveted, or otherwise attached to the top of the tank. Appropriate lengths of tube must then be attached to each end of the bulkhead connector and transmitter or gauge, as appropriate.

Once all capillary connections have been made, the transmitter can be lowered into the tank. **Note: all tube connections should be sealed before lowering the transmitter into the tank.** The level in the tank at time of installation is not important, as the transmitter will immediately signal the correct level to the gauge.

INSTALLATION - COPPER OR STAINLESS STEEL TUBE

The tank should be empty during installation. Position the transmitter in the bottom of the tank. Run the capillary tube from the transmitter through the tank top fitting to the gauge. Connect the capillary ends to the transmitter and gauge using the compression fittings kitted.

After sealing the capillary tubes, the gauge will indicate the liquid level when the tank is filled.

TROUBLE SHOOTING

If the airtight seal of the system is compromised in any way, the gauge will not indicate the correct level. This should be rectified in any one of the two ways suggested below:

1. Empty the tank. Break and reseal the capillary tube - allow at least 5 minutes after breaking the capillary (to allow the diaphragm to re-inflate) before resealing. Refill tank.
2. Lift the transmitter out of the tank (polyurethane capillary tube variants). Break and reseal the capillary tube - allow at least 5 minutes after breaking the capillary (to allow the diaphragm to re-inflate) before resealing. Lower the transmitter back into the tank.

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