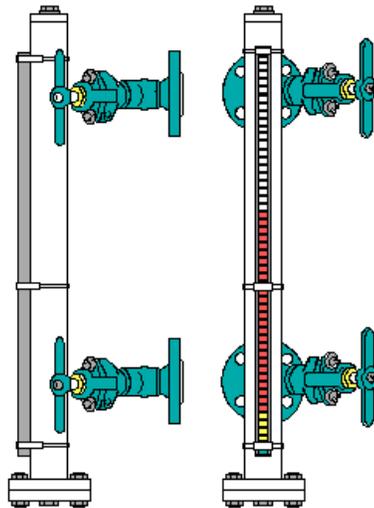




ARCHON Industries, Inc.

# Magnetic Liquid Level Gauge Installation Instructions

Installation Instr: 1006  
issued: 3/12/99



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# Warning

Read all warnings and instructions before performing installation or maintenance. Only properly trained personnel should install and maintain gauges and connections. Safety glasses and gloves should be worn at all times when working with or examining gauge and connections.

# Danger

Improper installation or maintenance of gauge and connections can cause immediate or delayed breakage resulting in bodily injury and/or property damage.

## INSTALLATION PROCEDURES

The Archon MAG Liquid Level Gauge is packed in separate pieces for protection during shipment. It is easy to assemble by following the guidelines in this manual. Upon unpacking, inspect all components for damage. Check the Archon nameplate in the Gauge Housing Chamber to verify that the specifications of the MAG Liquid Level Gauge are correct for the operating conditions. Contact Archon or your Archon distributor if you have any questions or encounter any problems.

The following instructions specify to first install the Gauge Housing Chamber to the process tank, then to install the float inside the Housing. However, some installations may not provide sufficient clearance between the chamber and the ground. Therefore, the float must be installed before mounting the Housing Chamber. In such cases caution must be exercised during installation to prevent the float from slamming end to end within the Housing Chamber.

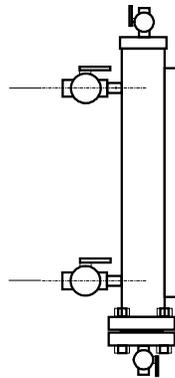


Figure 1

## 1. **Attaching the Gauge Housing Chamber to the Process Tank**

Attach the Gauge Housing Chamber to the tank, making up all connections loosely. (Flange gaskets, bolts, nuts to be supplied by the customer.) Tighten only after all connections and fasteners are in proper position.

Note: Isolation valves are recommended between the MAG Liquid Level Gauge and the tank process connections so that maintenance of the level gauge is permitted without draining the process tank.

## 2. **Assembly**

Install the float, with top end first, through the open flange at the bottom of the Gauge Housing. Ensure the "TOP" label on the float is pointed toward the top of the chamber.

Note: It is recommended to install valves in both the upper and lower vent ports in the Gauge Housing Chamber to permit de-pressuring and draining the chamber if necessary.

Enclose the float inside the Housing by attaching the flange cover plate with the bolts and nuts provided. Use an anti-sieze lubricants on the threads to prevent galling. Ensure the flange gasket is positioned to seal properly before tightening bolts and nuts. Proper bolting procedures should be followed including correct torquing patterns and values.

## 3. **Commissioning**

Before putting the MAG Liquid Level Gauge into service, ensure that the Gauge Housing Chamber is sealed with no openings to atmosphere. Slowly open the upper process tank connection to the Gauge Housing Chamber. Slowly open the lower process tank connection to the Gauge Housing Chamber. By opening the upper connection first, the float is held down while the pressure equalizes between the tank and the gauge. If the lower connection is opened first, the float may be launched upward, possibly damaging the float and housing.

After the upper and lower connections are opened, inspect to verify that there are no leaks and that the fluid level flags are operational. The installation is now complete.

4. **PRODUCT WARRANTY**

Archon Industries Inc., warrants its products as designed and manufactured by Archon to be free of defects in material and workmanship for a period of one year after the date of installation or eighteen months after the date of manufacture, whichever is earliest. Archon will, at its option, replace or repair any products which fail during the warranty period due to defective material or workmanship.

Prior to submitting any claim for warranty service, the owner must submit proof of purchase to Archon and obtain written authorization to return the product. Thereafter, the product shall be returned to Archon in Suffern, New York, with freight prepaid.

This warranty shall not apply if the product has been disassembled, tampered with, repaired or altered outside of the Archon factory, or if it has been subjected to misuse, neglect or accident.

Archon's responsibility hereunder is limited to repairing or replacing the product at its expense. Archon shall not be liable for loss, damage, or expenses directly or indirectly related to the installation or use of its products, or from any other cause or for consequential damages. It is expressly understood that Archon is not responsible for damage or injury caused to other products, building, property or persons, by reason of the installation or use of its products.

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