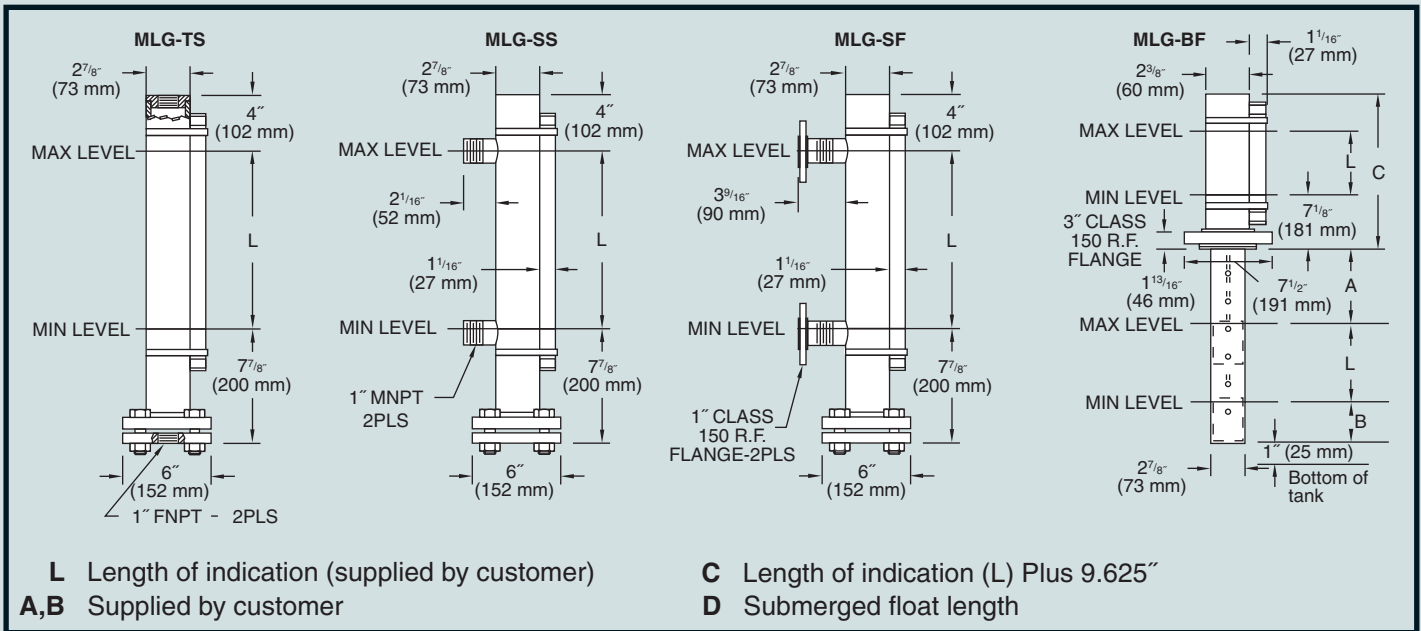


MAGNETIC LIQUID LEVEL GAUGES

Series MLG



*Flanges are mounted with bolt holes straddling vertical centerline of gauge.
 **Dimension can vary depending on specific gravity of liquid.

OPERATING PRINCIPLE

The Papailias Company Magnetic Gauge is a magnetic liquid level indicator used to determine the volume of liquid contained within a vessel. Because the Magnetic Gauge eliminates the need for glass, high pressure applications and hazardous locations are protected from the danger of a chemical spill due to glass failure.

The Magnetic Gauge utilizes three major components: the gauge housing chamber, the magnetic float, and the magnetic flag assembly.

The gauge housing chamber is mounted adjacent to the side of the vessel. It is constructed to withstand the same temperatures and pressures as the tank itself. It is equipped with the appropriate tank mounting connections for easy installation and to allow equalization of liquid level in tank and gauge.

Inside the gauge housing chamber is the magnetic float, which contains radially-positioned magnets to provide a 360 degree magnetic-flux field. Each float is internally weighted based on specific gravity so that the liquid level in the gauge coincides with the location of the magnets inside the float.

Attached to the gauge housing chamber is the magnetic flag assembly. This is the visual means of liquid level indication for the Magnetic Gauge. The assembly is made up of a series of bi-colored fluorescent flags. As the magnetic float rises and falls with the liquid level in the gauge housing chamber, a magnet embedded in each flag reacts to the 360 degree magnetic flux of the float. This magnetic interaction causes each flag to rotate 180 degrees. The flags below the magnetic flux of the float will flip to fluorescent green, while those flags above the float level remain bright white.

When your application priorities are safety, visibility and accuracy, the Magnetic Gauge is the low-maintenance, cost-effective solution.

