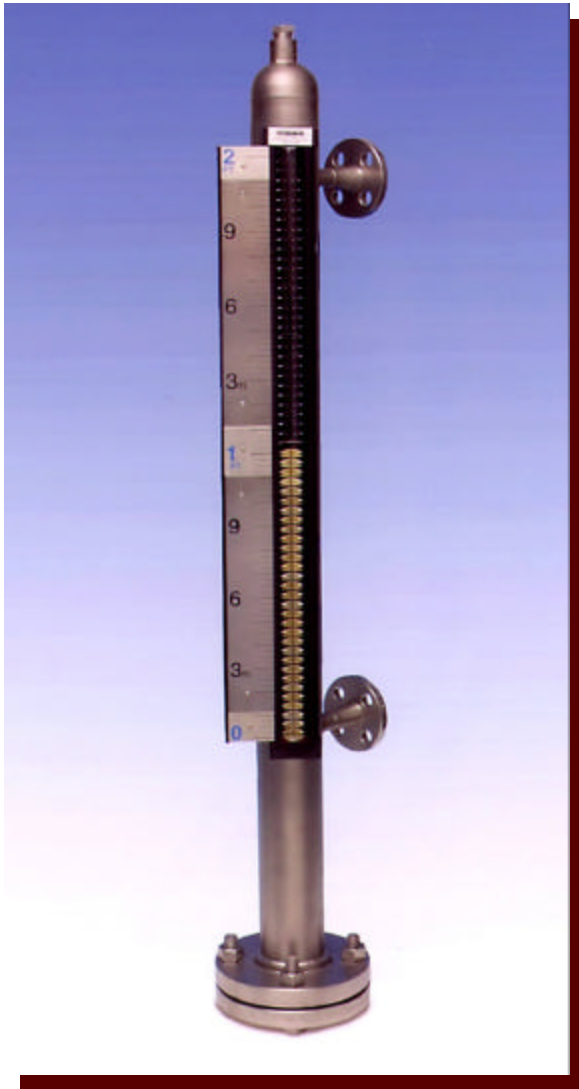


STAR-0121

Agency Contact: Ron McGee

Magnetic Liquid Level Gage Ensures Operator Safety and More



The extensively redesigned MagneStar™ non-intrusive liquid level gage from L.J. Star Inc. provides accurate, level indications in a wide range of critical applications. In this it protects operators from high pressure and/or high temperature fluids in a tank, process vessel or boiler while virtually eliminates the danger of catastrophic failure of the gage or associated piping.

More than a safety device, the MagneStar design also minimizes operating costs by eliminating downtime due to leaks or required maintenance. Further, the easy-to-read indicator tube does not require maintenance or replacement.

The gage utilizes completely separate gage chamber and indicator components. The interior gage chamber, an austenitic pipe spanning the height of the vessel, incorporates a custom -weighted float fitted with a powerful magnet. Floats are designed to match the characteristics of each application's process fluid: specific gravity, chemical properties, pressure and temperature. Virtually any process fluid can be accommodated, ranging from deionized water to various hydrocarbons, to highly corrosive bases and acids.

The exterior indicator assembly, a sealed glass tube, is mounted outside the vessel, parallel to the gage chamber and completely isolated from the process fluid. The indicator element magnetically locks onto the position of the float inside the sealed gage chamber. The indicator moves up and down as the position of the float changes, providing an accurate real-time indication of the liquid level

inside the tank. To further ensure accurate level readings regardless of vibration or shock, the indicator is magnetically stabilized.

Standard gage chamber construction is nominal Schedule 40 316 stainless steel pipe. However, if the application requires it, other austenitic metals or polymers are available. Additional options include follower or flag-style indication, point-level switches, continuous level transmitter, insulation jackets, frost-free extension, calibrated scales, interface indications and corrosion-resistant linings.

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