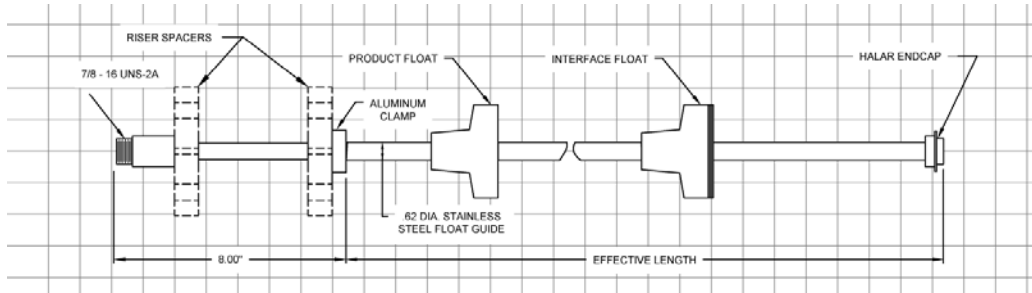


**Rigid Magnetostrictive Probe, EPA Compliant\***



**Product Description**

The MP450S Level Gauging Probe utilizes proven Magnetostrictive technology for accuracy and reliability. When used in conjunction with the TMS2000/3000/4000, it provides the ability to perform EPA compliant in-tank leak tests in underground storage tanks. The probe is available in lengths up to eighteen feet.

**Applications**

- Below Ground Storage Tanks
- Oil / Water Separators (See MP452S Series spec)
- All Petroleum Products
- Most Chemical Solvents

**Specifications**

- Technology: Magnetostrictive, Dual Float, w/ reflection resolution doubling
- Accuracy (Minimum):
  - Product Level: 0.0005" (0.013 mm)
  - Water Level: 0.001" (0.025 mm)
  - Temperature: 0.001 °F (0.0006 °C)
- Materials:
  - Shaft: 316 SS
  - Floats: Buna-N (Optional 316 SS or Urethane)
- Riser Mount: Minimum 2" (51 mm) dia. riser, 4" (102 mm) dia. riser required for in-tank leak
- Direct Mount: Minimum 2" (51 mm) opening with bushing or flange mount
- Probe Lengths: 4' – 12' (1.2 m – 3.7 m) Standard, Custom Sizes Available up to 18' (5.5 m)
- Temperature Sensing: 6 Thermistors; 5 in shaft, 1 in probe head
- Location Approval: UL Class I, Div 1, Groups C and D; cUL Class I, Zone 0, Group IIB
- Operating Temperature: -40 °F to 175 °F (-40 °C to 80 °C)
- Operating Pressure: 150 PSIG (1034 kPa)
- Field Wiring:
  - 22AWG, 2-Conductor twisted pair w/ shield
  - Belden 8441, Belden 8761, Alpha 1736C or equiv., maximum length 3000' to 4600' (914 m to 1402 m)
- Compatible With: TMS2000, TMS3000, TMS4000

**Installation**

Probes can be installed into a vertical riser pipe with the probe foot contacting the tank bottom, or direct-mounted at the tank top via a 3/4" NPT compression fitting kit. Consult factory for probes installed in chemical environments.

**Certifications/Approvals**

- UL/cUL Approved\*, File #E139464
- Third-Party Approved, EPA-Compliant for In-Tank Leak Testing:\*

\* When used in conjunction with the TMS2000/3000/4000 series controllers

Note: Specifications subject to change without notice. 10-07-2022