

Harsh Environment (HE) Float

Tough and Durable for Submersion in Caustic & Corrosive Fluids

This 3D-printed float, composed of a highly engineered polyamide, is designed to withstand many chemical environments where Electrolab's standard composition float does not provide the desired longevity and performance. The polyamide material exhibits high temperature and excellent chemical resistance, while providing very good mechanical (abrasion resistance) and barrier properties. This float coupled with an Electrolab Model 2100 Digital Level sensor offers an ideal level measurement alternative for chemical, petrochemical, fuel distribution, refining, production and other storage tanks.

The HE Float design is one piece to enhance its durability. Embossed grooves on the top of the float make it easy to identify the proper orientation of the float. Installation is easy: simply orient the float on the sensor and slide it in place.

The HE Float is available for Electrolab's standard 1/4-inch resolution Model 2100 stainless steel and fiberglass DLS, as well as the RediLevel™ 2100 DLS. With the addition of the HE Float, Electrolab sensors are applicable to many new markets and applications.

FEATURES

- 3-D printed, one piece design with internal support framework for impact resistance/durability and proper buoyancy
- Extensive fluid compatibility for chemical tanks, oil & gas production and storage tanks
- Non-stick material to help prevent buildup or sticking of the floats
- Minimal need for cleaning and maintenance
- Alignment grooves for ensuring proper installation of floats on the sensor
- Resolution stamped on float
- Fits through a standard 3" NPT port for stainless steel and fiberglass sensors and a 2" NPT port for the RediLevel™ sensor



Top View: 1/4-Inch Resolution, HE Product Float for Stainless Steel DLS



Side View: 1/4-Inch Resolution HE Product Float for Stainless Steel DLS

PART NUMBERS

HE Floats for Model 2100 DLS Stainless Steel Sensors

- PF01.25-SS-NY - Product Float for 1/4" resolution stainless steel sensor
- WIF01.25-SS-NY - Water Interface Float for 1/4" resolution stainless steel sensor

HE Floats for Model 2100 Fiberglass Sensors

- PF01.25-FG-NY - Product Float for 1/4" resolution fiberglass sensor
- WIF01.25-FG-NY - Water Interface Float for 1/4" resolution fiberglass sensor

HE Floats for RediLevel Sensors

- PF01.25-RL-NY - Product Float for 1/4" resolution RediLevel sensor
- WIF01.25-RL-NY - Water Interface Float for 1/4" resolution RediLevel sensor

Chemical Compatibility

The following chart shows the compatibility of the HE Float in various chemicals, along with the compatibility of the stainless steel material of the sensor body. The HE Float's Polyamide (Nylon) material offers extended longevity and durability over Electrolab's standard composition float in these chemicals.

CHEMICAL	POLYAMIDE (NYLON)	SS 316
Benzyl	Excellent	Excellent
Acetaldehyde	Excellent	Excellent
Benzaldehyde	Excellent	Good
Furfural	Good	Good
Ammonium carbonate	Excellent	Good
Acetate, amyl ester	Good	Good
Acetate, butyl ester	Excellent	Excellent
Acetate, ethyl ester	Excellent	Good
Acetate, methyl	Excellent	Good
Ethyl alcohol	Excellent	Good
Isopropyl ether	Excellent	Excellent
Lacquer, thinners, solvents	Excellent	Excellent
Lye Solution	Excellent	Excellent
Mayonnaise	Excellent	Excellent
Aniline oil	Excellent	Good
Castor Oil	Excellent	Excellent
Corn Oil	Excellent	Excellent
Fuel Oil	Excellent	Excellent
Olive Oil	Excellent	Excellent
Pine Oil	Excellent	Excellent
Nitrobenzene	Good	Good
Benzene	Excellent	Good
Benzene Chloride	Excellent	Good
Chloroform	Excellent	Excellent
Ethanol	Excellent	Excellent
Ethylene dichloride	Excellent	Good
Naptha	Excellent	Excellent
Napthalene	Excellent	Good
Styrene	Good	Excellent
Toluene	Excellent	Excellent
Trichloroethylene	Excellent	Good
Triethylamine	Excellent	Excellent
Xylene	Excellent	Good
KETONES		
Acetone	Excellent	Excellent
Cyclohexanone	Excellent	Excellent
Methyl Acetone	Excellent	Excellent
Methyl ethyl ketone	Excellent	Excellent
Methyl isobutyl ketone	Good	Good