

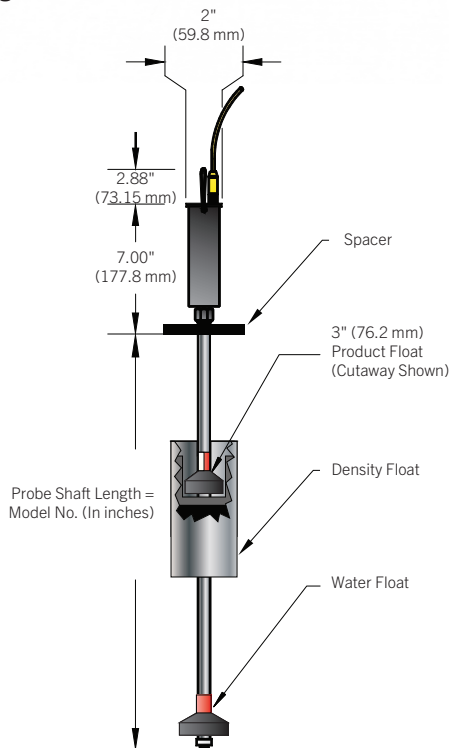
DENSITY MEASUREMENT FLOAT KITS

With density float kits, EVO™ Series fuel management systems have the ability to continuously monitor the density of fuel stored in underground and aboveground storage tanks. The same magnetostrictive probe that provides inventory management and leak detection capabilities can also supply product density and mass without the addition of extra probes or sensors. Programmable high and low density alarm points allow the user to determine the range of acceptable density fluctuations.

HIGHLIGHTS

- Designed for applications involving 4" riser pipes.
- Each float set contains a product, density, and water float.
- Floats are constructed of Nitrile rubber and PVDF.
- The water float will be red for gasoline and blue for diesel. The product float will be half red/half white for gasoline and half blue/half white for diesel.
- Density and product floats are calibrated and must be maintained as a set.

System Diagram



SPECIFICATIONS

Measurement accuracy	±3.0 kg/m ³
Measurement resolution	±0.1 kg/m ³
Minimum detectable product level with water float	10.70"
Minimum detectable product level without water float	6.70"
ATG Compatibility	Compatible with all EVO™ Series Consoles

Theory of Operation

Density measurement is based on the distance between the calibrated product and density floats. As the density of the fuel changes, the gap between the floats will increase or decrease in proportion to the change. The EVO™ receives this information from the probe and uses it to calculate and display the current density of the fuel.

ORDERING INFORMATION

Model	Description	Density Range
TSP-IDF4D3	Standard diesel/fuel oil density float kit	790-900 kg/m ³
TSP-IGF4D3	Standard gasoline density float kit	690-800 kg/m ³

Note: Order one density measurement float kit for each magnetostrictive probe. Probes used with density float kits must have serial numbers greater than 6,000,000.