

# SSI Technologies - Application Note FT-AN9

## Fluid-Trac® Focus Tube Adaptor



### Product Description

The Fluid-Trac® Focus Tube Adaptor (FTA) is designed to be mated to SSI Technologies, Inc. Fluid-trac unit with 5 bolt mounting specification. FTA will fit on tanks with SAE J1810 bolt pattern.

### Product Features

- **Serviceability:** If mounted to tank at time of initial installation, sensor can be removed with little overhead clearance while leaving tube in place.
- **Angle Performance:** Increases angle performance of sensor from +/-6° without tube to +/-15° with tube.
- **Configurable Tube Length:** Available in 1" length increments up to 32" for a variety of applications. Longer tube lengths can be manufactured with SSI product engineering approval.
- **Robust Design:** No adhesives used to connect tube, allowing for wider range of media compatibility
- **Optional Float:** Used for applications with extremely high vibration levels or mounting angle exceeding 15°. Use of float to be approved by SSI product engineering.
- **Chemical compatibility:** FTA works with a wide variety of media including gasoline, diesel, urea (ADBLUE)\*, oils, hydraulic fluid, & water.

\*Note: FTA used in urea (ADBLUE) or other liquids with solute must have special configuration to prevent blockage of breather channel.

### Mounting

The FTA is mounted to the tank surface with gasket between flange and tank. Fluid-Trac® sensor and gasket is mounted on top of FTA. 5X bolt passes through the sensor and FTA flange, clamping the assembly together for a leak-free interface.

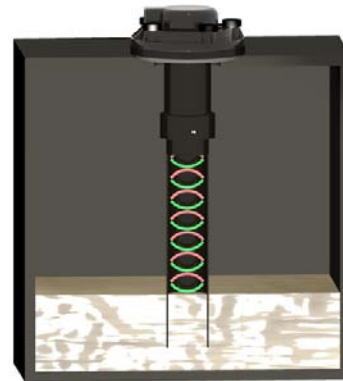


Figure 1. Fluid-Trac® & FTA Tank Mounting

### Tested Conditions

Mechanical Shock	50 G Shock
Thermal Shock	-40 to 85 ° C, 100X cycle
Drop Test	4 Ft. Drop Test
Vibration	5 Grms 8 hrs each axis
Humidity	85% humidity @ 60 ° C for 250 hrs
Chemical Compatibility	Gasoline, Diesel Fuel, Motor Oil, urea (ADBLUE), Water, Hydraulic Fluid, Engine Coolant

### Other Specifications

SAE 5 Bolt Torque	10-15 in/lbs
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