

**Bulk & Terminal Products Div.**  
**Precision Tank Gauges**  
**Mass Measurement**  
**LP gases and NH3**



**Founded July 1, 2000**

**Bulk & Terminal Products Div.**  
**Precision Tank Gauges**  
**Mass Measurement**  
**Refined fuels, oils, and**  
**petro-chemicals**

## FTI Start Up and Installations Module

It is FTI's policy that every tank gauge is started up by a factory technician, or a factory certified field technician. This is to insure the product is installed correctly and to assure our customer satisfaction.

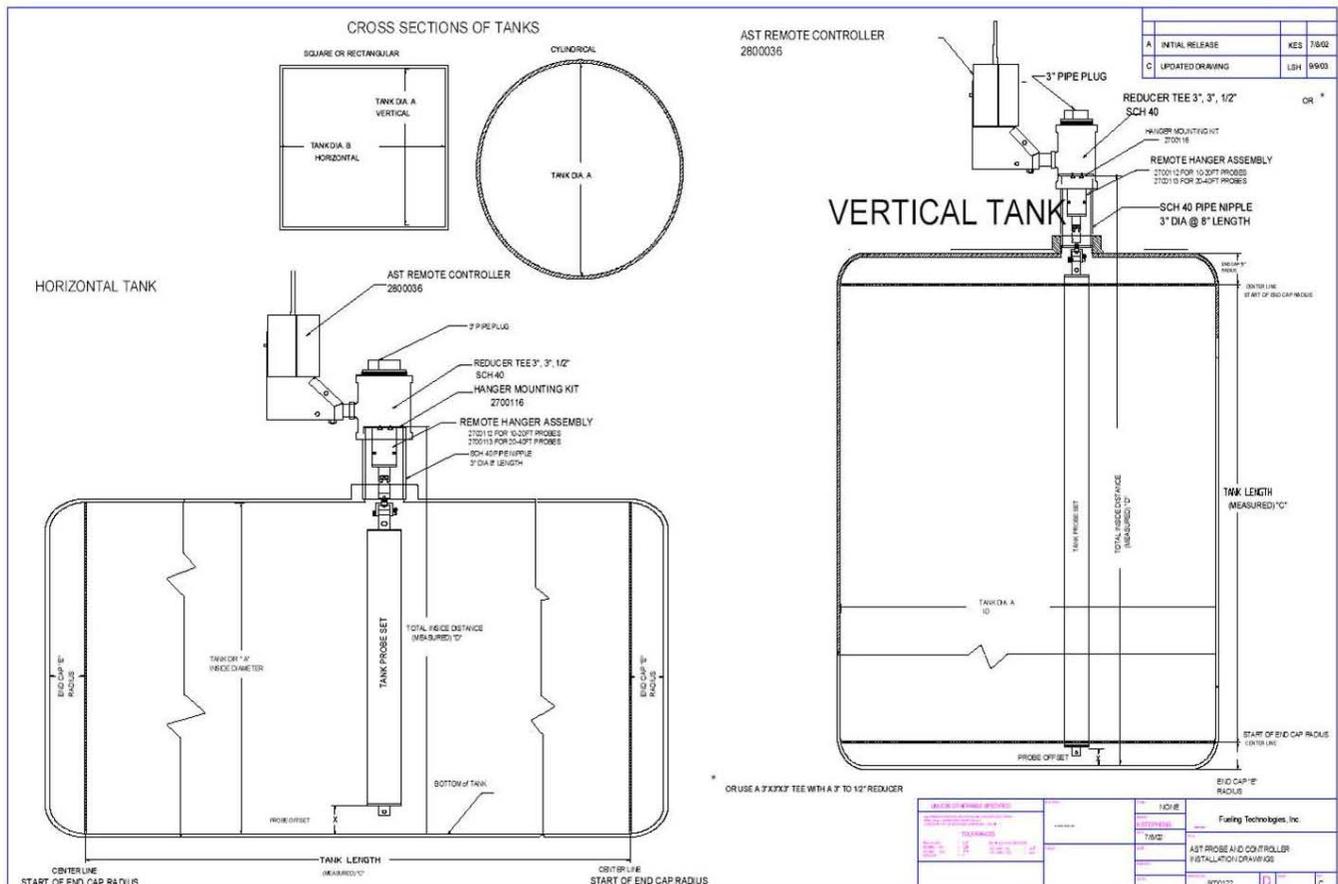
Every gauge is calibrated against a weighted load over a certified public scale. By regulation these truck scales must exceed accuracy of 99.90%. This is a stringent standard. FTI claims accuracy exceeding 99.5% of the net (60<sup>of</sup>) total product, liquid and liquid content of the product in vapor phase. We know of no other supplier who can claim (or is willing to prove) this accuracy. After all, what is the purpose of inventory management and reconciliation if not to assure this high standard.

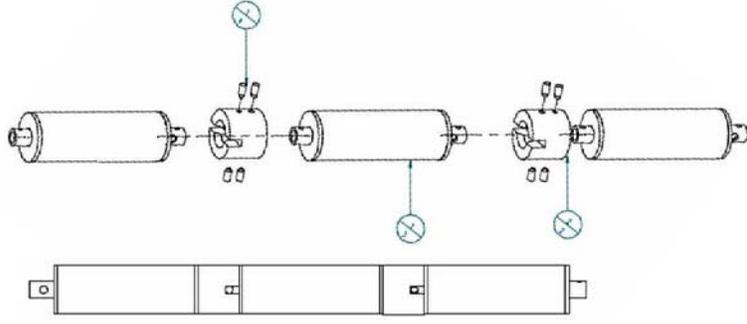
The following pages show how our gauges are installed and what is needed at the tank. One page is for LPG tanks, and one is for AST tanks.

# FTI installation of AST tanks

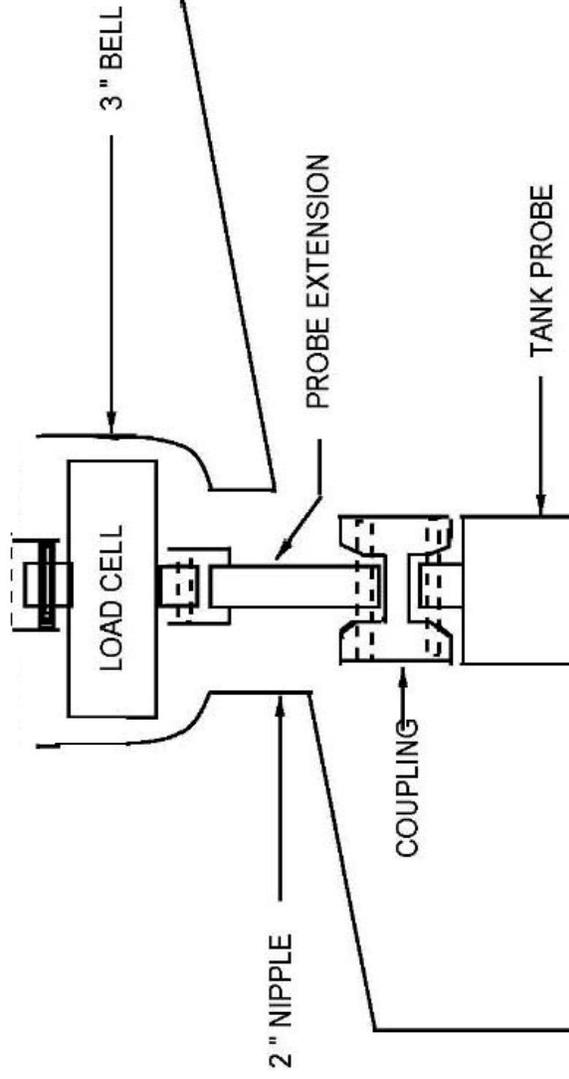
Items supplied by customer:

1. Installation labor, tools, and materials, to include:
2. Available 3" opening with 3" x 12 riser nipple, 3" pipe tee, 3" pipe plug, and 3" x 1/2" bushing, for installation of probe, located at least 5 feet horizontally away from bottom of tank pump inlet.
3. If only a 2" size pipe opening is available installation can be accomplished by using a 2" close nipple and a 3" x 2" bell reducer - creating a 3" chamber for the probe load cell.
4. Hardware and labor as required to install and position RF antenna as needed to supply RF signals from the tank probes to the antenna and Master Control Unit.
5. A weighted load of product for each tank unit, in or out of the tank, with a minimum of a bobtail load (transport is even better).





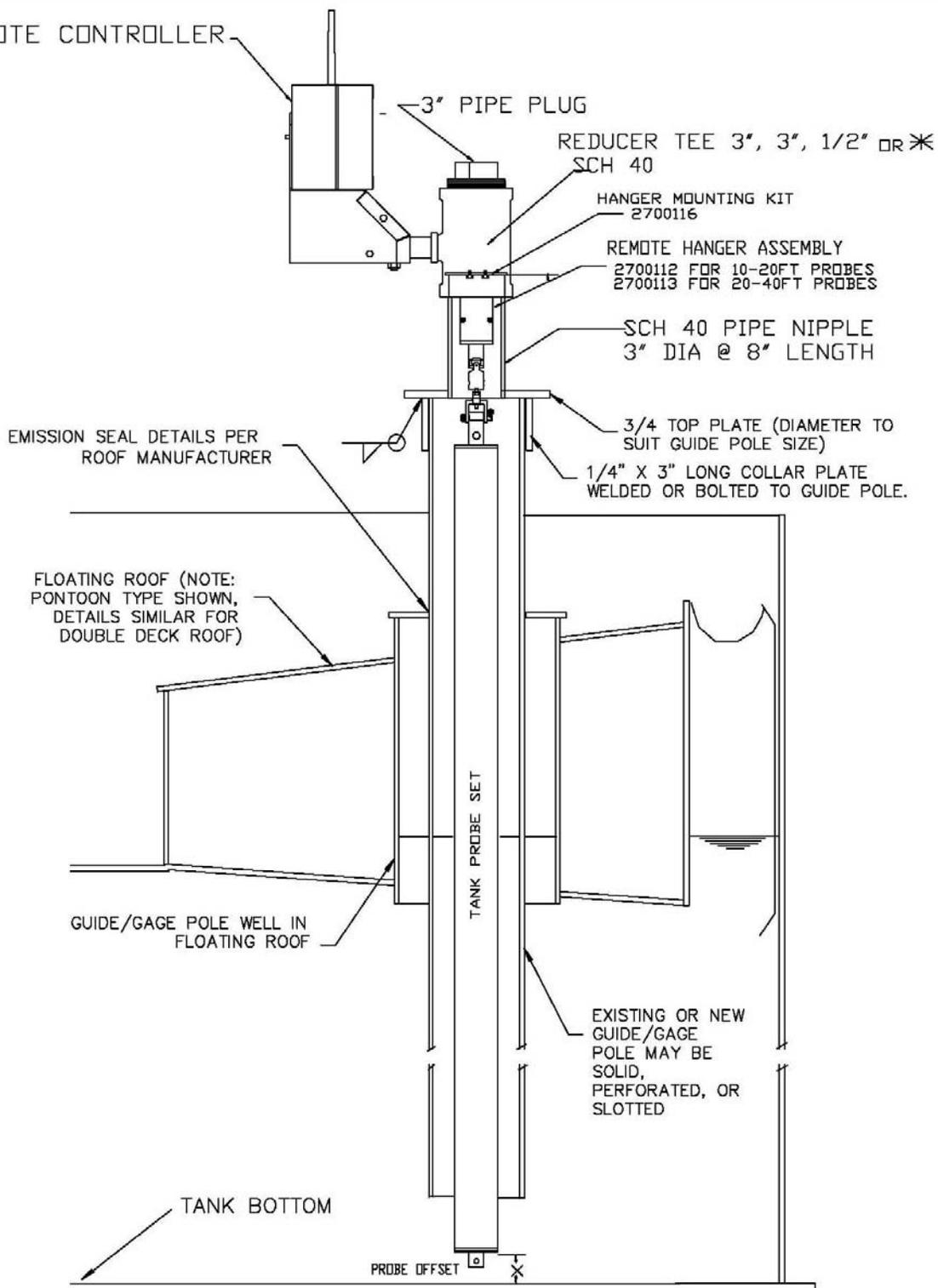
Installation of FTI buoyancy tubes (probe) is easily done without a crane, even on very tall tanks. The “probe” is installed in sections. It helps if there is product in the tank, which will support part of the probe weight



When AST tanks have only a 2" opening available it can be adapted to by using a 3" x 2" bell reducer on a 2" close nipple. This provides a 3" to mount the 3" tee assembly shown in the standard drawing. The 3" tee is needed to provide a “chamber” for the load cell assembly, which will not fit in a 2" pipe.

## Supplement to AST installation instructions

AST REMOTE CONTROLLER  
2800036



# Floating Roof Installation Drawing

Floating roof drawing available on 11 x 17 paper, or in CAD .dwg formatted file

## FTI installation of LPG tank gauges

Items supplied by customer:

1. Available 2" opening with 300 lb ASA companion flange on 2" riser Nipple, a minimum of 6" high (12" is better) for installation of probe, offset at least 4 feet horizontally away from bottom of tank pump inlet.
2. FTI may be able to offer alternative solutions to placement of the probe. We would need tank drawings or photos of the top of the tank from a side view showing all openings and manholes..
3. Personnel to plumb and install the probe, with guidance by the FTI start up and training technician.
4. Any needed ladders, lifts, required tools, bolts, gaskets, and safety equipment.
5. A weighted load of product for each tank unit, in or out of the tank, with a minimum of a bobtail load (transport is even better).
6. Hardware and labor as required to install and position RF antenna as needed to supply RF signals from the tank probes to the antenna and Master Control Unit

