

ABOVE GROUND GAUGE INSTALLATION INSTRUCTIONS

INSTALLATION

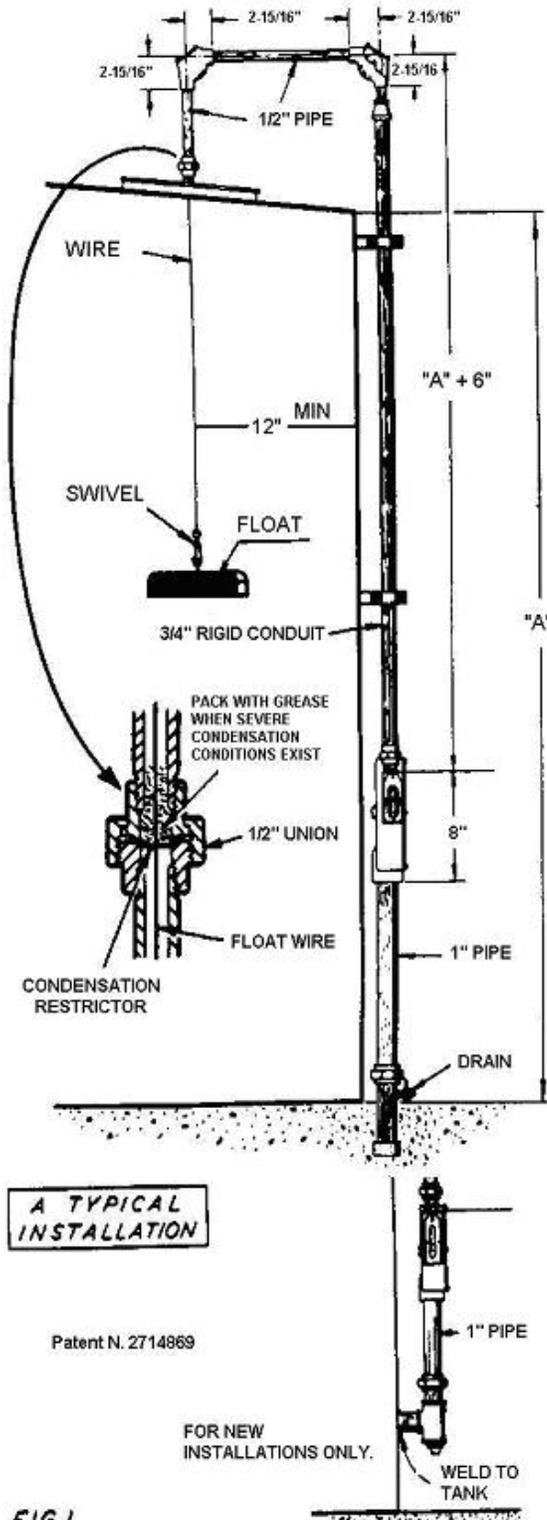


FIG.1

Before starting installation, carefully check to be sure total graduations of the tape in the gauge housing (refer to Figure 3) corresponds to tank seam height, Dimension "A", Figure 1 or horizontal tank diameter. If tank seam height or horizontal tank diameter is less than the total length of tape in gauge, remove tape from tape adapter by loosening setscrew. Cut tape to correct length and clip off corners, being sure to allow an extra 2" for reassembling tape to tape adapter as shown in Figure 3. **NOTE:** Exercise care, while cutting tape, to be sure that tape does not slip from your grip causing it to unwind, losing its spring tension.

The Supreme Tank Gauge is shipped ready for installation. Included with fully assembled gauge reel housing are two 90-degree elbow pulleys, wire and a float with swivel adapter. Because there are two methods of anchoring the standpipe, the pipe and pipefittings required for each type of installation will be different. The following pipe and pipefittings are required for the type of installation with standpipe anchored in ground.

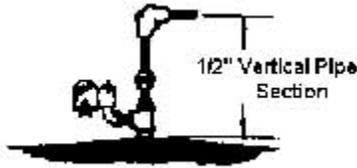
1. Galvanized 1/2" iron pipe and 3/4" rigid conduit for superstructure.
2. Galvanized 1" iron pipe for standpipe.
3. Two 1/2" nipples.
4. One 3/4" nipple.
5. One 3/4" to 1/2" reducer.
6. One 3/4" ground joint union.
7. One 1/2" ground joint union.
8. One brass drain cock or plug.
9. One 1" ground joint union.

For the type of installation with standpipe welded to tank, a 1" tee is required to anchor standpipe as shown in Figure 1. **NOTE:** This method of anchoring standpipe should be employed on new, unused tanks only.

Select a convenient location for the gauge as close to storage tank as practical. If suitable support for 1/2" horizontal pipe (Figure 1) is available, tank gauge may be located in or beside a building or at any distance from tank. Where support for horizontal pipe is not available, install gauge as close to tank as possible as shown in Figure 1.

The float wire, which must enter tank on a straight vertical line (Figure 1) through 1/2" vertical pipe, may enter tank through center opening, manhole or any other suitable opening. As a general rule, the manhole provides the greatest ease of installation. If float wire is to enter tank through center opening, install a pipe tee in 1/2" vertical pipe section and connect vent or other fittings to side opening. See Figure 2.

FIG. 2



NOTE: Use sealing compound on all male threads when fitting pipe and making pipe connections.

If tank is in use, measure tank contents. Use measurement to check gauge tape upon completion of assembly.

Prepare the 1" standpipe to support gauge as shown in Figure 1. Locate the standpipe in such a manner that superstructure piping will require no elbows or fittings other than shown in Figure 1. Mount gauge reel housing atop standpipe with 3/4" nipple and 3/4" union tightened into top of housing to accept 3/4" rigid conduit superstructure. It is suggested that the overall height to top of gauge reel housing should be not more than 30". Refer to Figure 1.

Assemble the 3/4" rigid conduit, 3/4" to 1/2" reducer, 1/2" nipple and 90 degree elbow pulley so that the height of this section after installation is 6" longer than the height of vertical tank or 6" more than the diameter of horizontal tank as shown in Figure 1. Prepare 1/2" pipe sections horizontal and vertical to suit manner of installation. Fasten superstructure pipes to elbows as shown in Figure 1. Install the condensation restrictor in 1/2" union and pack with grease when severe condensation conditions exist.

When preparing to thread float wire through superstructure, remove covers from pulley elbows.

Using an electricians fish tape as a guide, pull wire through pipe. After wire is in pipe, fasten wire to tape adapter. See Figure 3. Wind wire tightly onto adapter. Now securely tighten union atop gauge reel housing to 3/4" rigid conduit and 1/2" vertical pipe section to tank opening.

Pull wire from tank through manhole and attach the float to the float wire. Securely tighten wire to float swivel adapter. Check to be sure float wire is on pulleys in elbows before slowly dropping float into tank. Replace covers on pulley elbows.

If tank is full, tape in reel housing should register full, (same as tank height or diameter Dimension "A", Figure 1) or the correct amount in the event there is less than a full tank. If there should be a discrepancy between amount in tank and tape reading, adjust to compensate for difference with float wire at point of connection to float swivel or tape adapter. **NOTE:** The buoyancy point of the float is approximately 1" below the top surface of fluid in tank.

MAINTENANCE

Once a year, carefully remove the gauge reel housing cover and thoroughly oil spring and bearings, using #5 oil.

To remove tape for replacement, lift window slightly and turn to one side. Pull tape slowly outward until it stops. See Figure 4. Holding tape, wedge screwdriver between reel and gauge housing. Remove screw-holding tape to reel and fasten new tape to reel with screw. Let new tape rewind slowly.

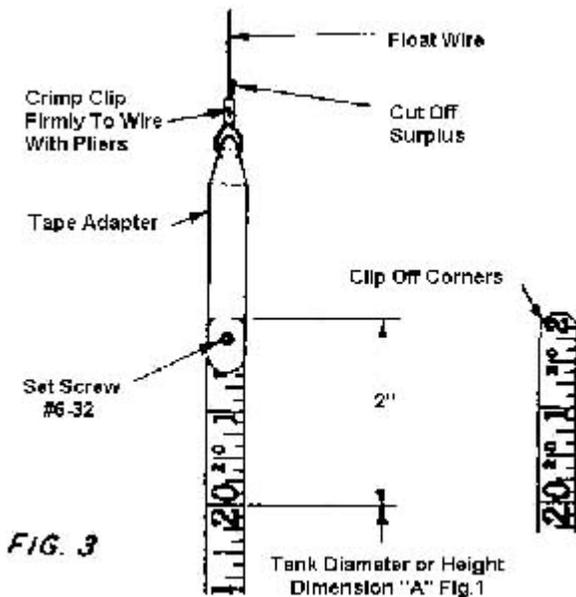


FIG. 3

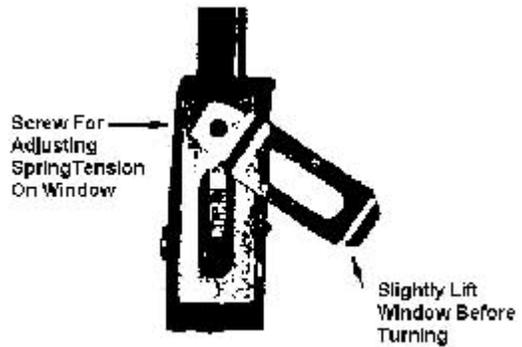


FIG. 4

If reel should release before fastening tape, remove gauge cover and rewind reel by turning in a clockwise direction until reel tension is slightly less than float tension. Replace cover. Should reel tension need further adjusting, remove cover and screw holding spring in place. Turn spring clockwise to increase tension and counterclockwise to decrease tension. Replace screw and cover.