

ATMOSPHERIC TANK FLOAT SWITCH INSTALLATION & ADJUSTMENT

IMPORTANT NOTE IF TANK SUPPLIED WITH SYSTEM

In order to avoid damage to the internals of the float switch during shipment the float has been tied to the inside surface of the tank lid. When the tank has been moved to its permanent location, open the top tank lid, cut the tie securing the float to the lid and let the float hang down inside the tank in its normal operating position. The float switch has been installed at the factory for a typical hang down length. If, during use, the tank level at shut off is not as desired it can be adjusted as described below.

Installation and Adjustment

This system was prepared for use with an atmospheric product water storage tank. The float switch employed with the storage tank is the "pump up" type; its contacts are closed until the float rises to the tank full level at which point the contacts open causing the R.O. system to shut down. When the float drops to the level where the contacts close again, the R.O. system will turn on. If the R.O. system is the Tomar TSM or TLC type the float switch must be rated at 15A or higher. If the Tomar R.O. system is the TV type the float switch must be rated at 0.25A or higher.

If the float switch and weight are not already installed in a tank they should be installed now. Generally, a plastic storage tank is used and the float switch cord installed through a hole in the top flat surface of the tank. Drill a 13/16" hole in the top surface for enough in so that the float switch will be clear of the tank side wall then screw the black cord restraint into the hole. The 13/16" hole is usually drilled in the middle of the flat surface surrounding the tank lid. Feed the end of the cord through the restraint from the inside of the tank. When the weight is hanging approximately two feet from the top of the tank tie a single knot in the cord outside the tank so that the knot keeps the float switch and weight in place when it touches the cord restraint.

Adjustment of the tank full shut off level is done by raising or lowering the float switch/weight assembly. If the full level is too high (tank overflows) loosen the knot in the cord at the point where the cord enters the tank. Also loosen the black cap on the cord restraint, then lower the switch and weight the desired amount and re-tighten the knot in the cord where it enters the black restraint. Retighten the black restraint cap.

If the full tank level is too low, perform the above operation but pull the assembly up instead. The tank level where the R.O. system turns back on will be approximately 1 foot below the tank full level with the factory set location of the weight (about 6" between weight and float). To increase the change in tank level before the R.O. restarts, the cord weight must be loosened and moved further away from the float and then re-secured. It is not recommended to decrease the factory set 6 inch difference since this could cause the R.O. to cycle on and off too frequently.