

# Float Switch Assembly

## Installation Instructions

These instructions cover the installation of a float switch assembly. To set and adjust float switches, see NIN-MF-DA-1, *Float Switches: Settings and Adjustments*, or NIN-ATX-DA-1, *Float Switch and RSV Settings: Instructions for Residential AdvanTex Systems*. For wiring instructions, see the schematics and wiring diagrams included with the control panel for the float switch assembly.

### Step 1: Prep the Float Switch Assembly

**Step 1a:** Check for vertical and horizontal clearance between the float switches.

- Move each float through its range of vertical and horizontal motion.
- The float switches shouldn't interfere with one another during this check.

**Step 1b:** If the switches interfere with one another, loosen the set screw on one switch's collar and adjust the collar horizontally until the switch is clear of the switch(es) above or below it.

- Don't back the set screw completely out of the float collar.

### Step 2: Install the Float Switch Assembly

Once any adjustments are made, install the float switch assembly.

#### IMPORTANT:

- *DON'T* lengthen the float stem without prior approval from Orenco.
- *DON'T* change the float tether lengths. Changing the tether lengths may disrupt proper operation of the assembly.

**Step 2a:** Lower the assembly into position.

- As you lower the assembly, check that the float switches don't interfere with walls or components in the tank, pump vault, or flow inducer.
- If the float switches interfere with walls or components, remove the assembly and adjust the float(s) horizontally for clearance.

**Step 2b:** Attach the float switch assembly to the assembly into the float bracket.

- Align the top of the assembly with the top of the float bracket.
- The float bracket is usually fixed to the Biotube® effluent filter, the flow inducer, or the side of the pump basin.

**Step 2c:** Secure the loose cables to the splice box by looping them over the internal splice box or secure them with the external splice box's hook-and-loop strip.

**Step 2d:** Install a handle extension if the float switch assembly's handle isn't within easy reach for removal and servicing.

- Measure from the top of the float bracket to 6 inches (150 mm) below the top of the riser.
- Mark and cut a section of 1-inch (25-mm) PVC pipe to the measured length.
- Remove the float switch assembly from the float bracket and glue the pipe section into the tee fitting.
- Wait for the glue to dry before reinstalling the float switch assembly.

