



# Oil Smart® Travel Float System

## Operation:

The float system will travel up or down a Stainless Steel post. The float system will sit at the bottom stop pin until a liquid enters the sump, tank, or containment structure. Once the liquid starts to rise, the liquid will rise to the normal buoyancy level of the system causing the float system to rise until it hits the start pin. When the system hits the start pin, the liquid will continue to rise and the following (part a and/or b) will occur:

### a. Oil Smart® Pump Controller

#### 1. Water Present:

When the liquid reaches the on sensor, if the liquid is water, the pump will activate, pumping the water down. While the water is pumped down, the water will reach the normal buoyancy level of the float, causing the float to travel down the PVC post while the pump is still on. The float system will hit the bottom stop pin and the water will continue to pump until it clears the off sensor, shutting the pump down.

#### 2. High Demand (Two-Pump Operation):

If water continues to enter the pit and a high water condition occurs, the two-pump demand switch will activate the second pump.

#### 3. Oil Present:

If the liquid is oil, the pump will not activate.

### b. Liquid Smart® Alarm

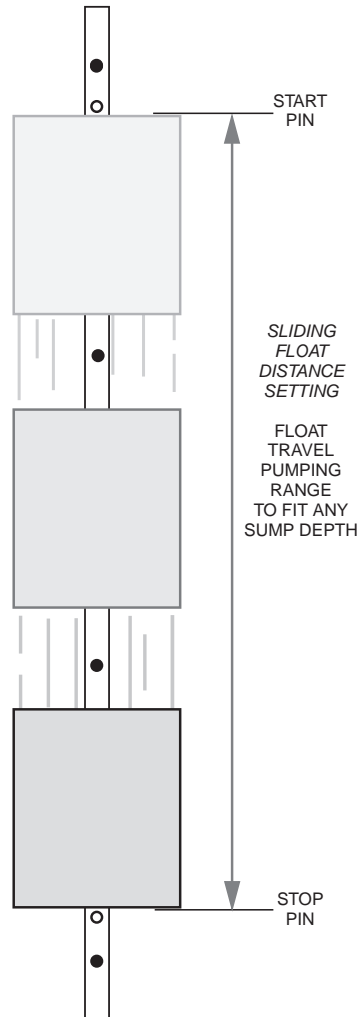
#### 1. Water Present:

If the pump does not activate or fails to pump the water down and the water continues to rise, the Liquid Smart® switch will activate the alarm and indicate that water is present.

#### 2. Oil Present:

Once the oil reaches the Liquid Smart® Switch, the alarm will activate and indicate that oil is present.

## SLIDING FLOAT WITHOUT SENSORS



THE ILLUSTRATION ABOVE DEPICTS A FLOAT TRAVELING UP AND DOWN A STATIONARY STAINLESS STEEL POST.

## Installation:

### a. Travel Float Assembly Installation

1. Mount the travel float assembly to the sump by (a) or (b)
  - a. On the top of the assembly locate the 90° angle that attaches to a mounting bracket. Mount the bracket to the side of the sump. On the bottom of the assembly, identify the mounting bracket and mount to the floor of the sump.
  - b. Contact the manufacturer (SEEWATER, Inc.) for additional mounting options.
2. Insert the stop pin at the desired stop range of the assembly. Make sure the stop pin is inserted a few inches above the impeller of the pump.
3. Slide the rectangle box float with switches mounted up the stainless steel post until the system hits the start pin.
4. Insert the stop pin at the desired start range of the assembly giving you the desired pumping range.
5. Attach a cable tie to the side of the sump half way between the start and the stop pin allowing a drip loop for the cables.
6. Run the cables (Liquid Smart Alarm, 2 Pump Demand "High Water", and the Oil Smart Switch cables) through the cable tie creating a drip loop.
7. Run pump cables, Liquid Smart® Alarm Switch cable, 2 Pump Demand (High Water) Cable and the Oil Smart® Pump Switch cable through conduit.

[www.seewaterinc.com](http://www.seewaterinc.com) or [www.oilsmart.org](http://www.oilsmart.org)

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Fail-Safe Technology since 1995.

**SEEWATER** Inc.   
"OIL SMART" Water Pump Switches