

## TROUGH VALVES OPERATION & INSTALLATION INSTRUCTIONS

The Philmac trough valves operate by opening and closing a plunger against a seat through the action of a lever attached to a float. As the water level drops, the float and lever move in a downward direction and the plunger moves away from the seat opening the valve. When the water level rises, the float and lever move in an upwards direction and the plunger moves towards the seat until it sits firmly against the seat and shuts the valve off.



1. Apply PTFE tape or approved sealant to the thread ensuring sufficient is applied to ensure a watertight seal.



2. Screw into female thread by hand until firm.



3. Using a pipe wrench or multigrips on the body of the valve screw it into the female thread until tight. Where necessary ensure the female thread is held stationary to avoid it from moving.

### Conversion for Overhead Entry



1. For overhead installation the lever needs to be relocated by unscrewing the pin from the body.



2. Rotate the lever by 180° and reinsert the pin through the lower hole (upper hole is for the standard installation). (Refer page 54 for pin locations).



3. Installation position.

# Setting the Float

**Figure 1**



Make a loop and insert through the hole in the bottom of the float

**Figure 2**



Insert the cord through loop allowing enough cord to tie off the float on the top lugs

**Figure 3**



Pull tight the knot on the bottom of the float. This knot can easily be loosened to adjust the float level

**Figure 4**



Bring the cord to the top of float between the two lugs

**Figure 5**



Loop around the lug

**Figure 6**



Then twist the cord to make a loop and pass the cord back between the lugs while holding the loop

**Figure 7**



Loop the cord around the opposite lug and then pass through the loop

**Figure 8**



Pull to tighten on the lugs

**Figure 9**



Once adjusted to the correct level in the trough any excess cord can be trimmed if necessary