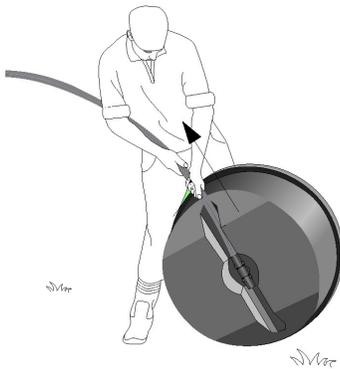


Instructions: The 'R100' Portable Round 100 Litre Trough

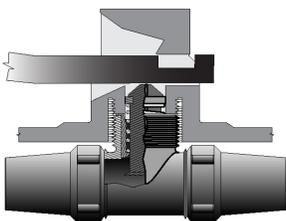
Installation



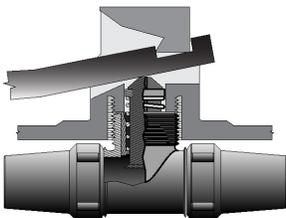
Turn the Trough upside down, press the Kiwitech valve into position and screw the Trough Tee into place so that it is a firm fit and aligns with the axis of the tunnel.



Push the Low Density Trough Lead firmly into the Trough Tee, making sure you push through the O-Ring but no so far as to disrupt the valve action. Because of the difficulty of doing this on an angle, we strongly suggest you mark the spot on the pipe (the pipe needs to go in the same distance as the cone). Once the trough lead is home, turn it clockwise and pull back firmly as indicated (you can also twist the trough anti-clockwise to achieve the turn)



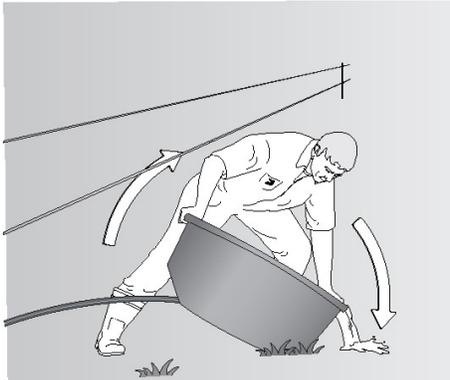
Turn the trough right side up and insert the Trough Float Arm into the Trough Centre. Do this by inserting the end into the larger aperture and press downward to deflect the valve then push through until the end of the Trough arm is in position.



Check that the Trough Float Arm moves freely up and down and is properly indexed.

Operation

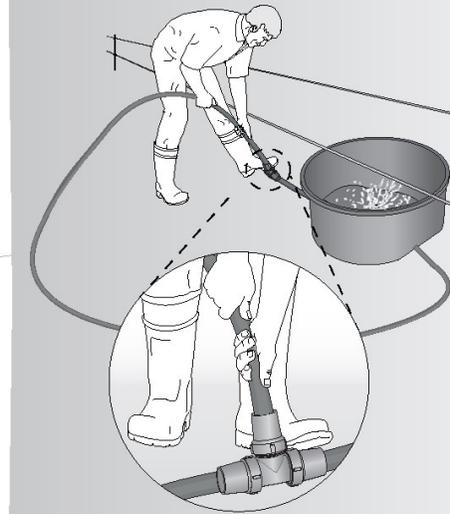
Please read about the Kiwitech Hydrant to understand how to plug trough lead into the Kiwitech hydrant. <remember you have to “push, twist clockwise and pull backwards”>



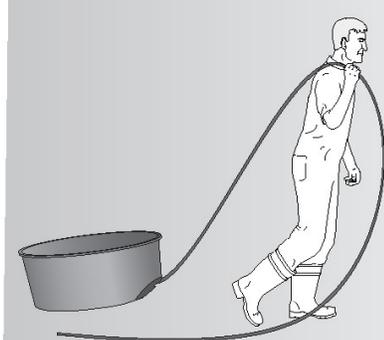
When it comes time to move the trough, tip the water out of the trough (you must reduce water pressure to work the hydrant and you will need the trough to be empty for shifting).

Note the trough is designed to tip away from the pipe lead (the chamfered edge of the trough bottom is easier to tip.) Push down with one hand and lift up with the other to take pressure off of your back.

The best place to locate a trough is under and electric fence as animals are less likely to play with it in this position.



Unplug the trough lead from the hydrant. With one foot on the pipe and hydrant to hold it steady “Push, twist anti-clockwise, pull back”



You can either hold the trough or drag it by the lead when taking it to the next plug-in point. If driving over Kiwitech fences dragging the trough by the pipe, it won't get hooked on the wires, however the life of the trough may be negatively affected if it gets dragged over roads and rocky ground.

Trouble Shooting

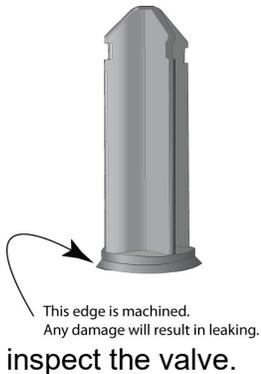
Water is leaking around the bottom of the trough:

The most likely cause is that you did not push the pipe through the seal. Sometimes it is quite hard to push pipe through the seal, particularly at the angles required with our trough. You may want to keep measuring the pipe you are plugging into the fitting. Some silicon and chamfering the end of the pipe may also help for you to get through the seal if you are having difficulty.

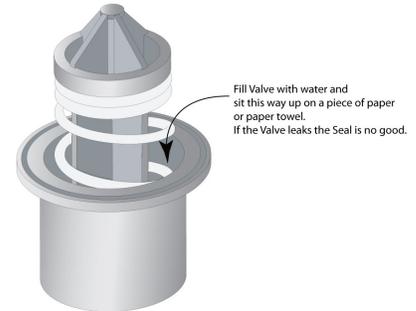
Trough is overflowing:

1) Take the float out of the trough centre by pushing down and pulling out (the reverse action of installation). Tip all of the water out. Is water still coming in?

Yes → Problem: Valve leaking or Tee not tight enough



Then either the valve is damaged or the tee is not screwed into the trough firmly enough. Push the valve up and down a couple of times to see if you can dislodge anything that is stuck between the plunger seat and the valve body. If this doesn't remedy the problem, take the pipe out of the trough tee (push pipe in, turn a ¼ turn anticlockwise, pull). Undo the tee (noting the firmness of the fit) and visually



No → Problem: Float arm

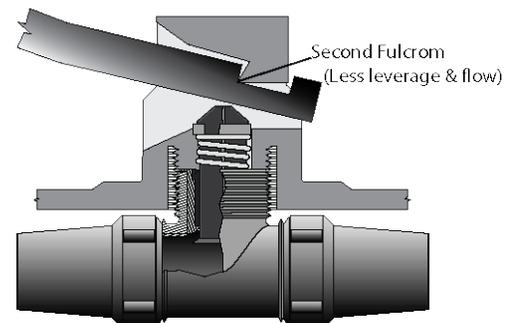
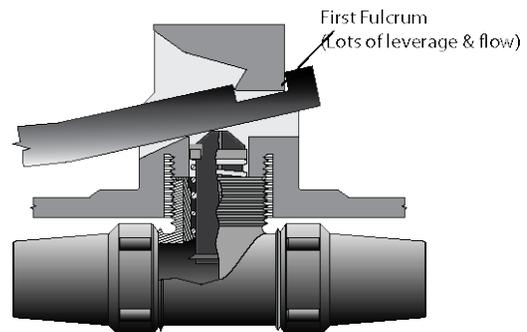
Not enough free play at the top of the stroke (clearance between arm and valve head).

OR

If parts aren't correct you can get a "reverse lever problem", i.e., when trough overfills for whatever reason (e.g. rain) the arm starts to lever on its back edge.

This could be due to production, plastic wearing out or an animal bending the float arm (very hard to do but has accounted for some cases)

You will notice the trough fills and then seems to stop momentarily and continues. It has gone past the first fulcrum point and is now levering against the back of the trough centre. The fix could be: bending the float arm (use a vise).



If Water continues to leak out of trough even though the trough is full:

