

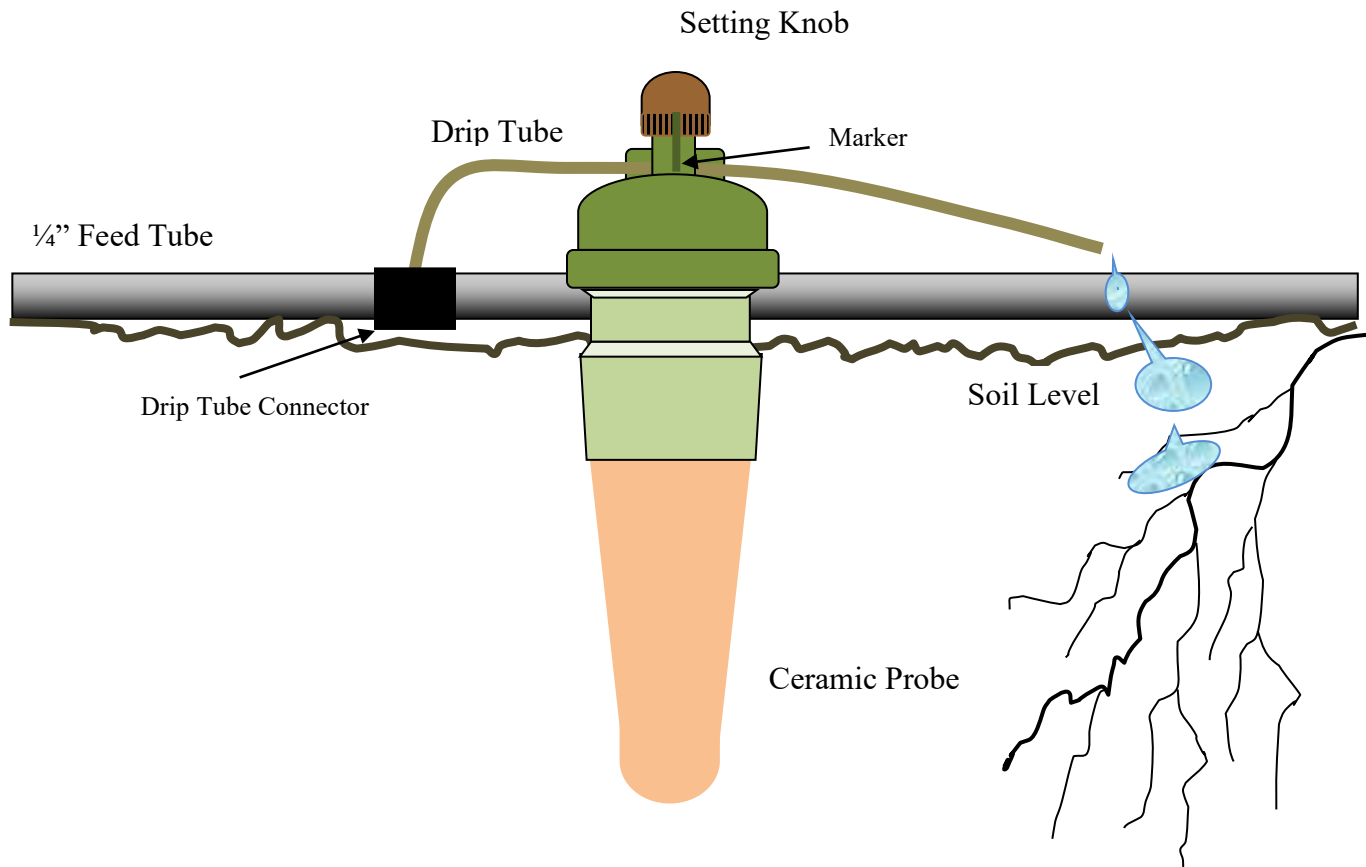
COMPONENTS

| Components | Mains Kit (Tap) | Main kit (Hose) | Tank Kit |
|------------------------------|-----------------|-----------------|-----------|
| Pressure Reducer (A) | 1 | 1 | -- |
| Adaptor & Hose Connector (B) | -- | 1 | -- |
| Tank Connector (C) | -- | -- | 1 |
| ¼" Feed Tube (D) | 10 metres | 10 metres | 10 metres |
| Ceramic Probes (M) | 12 | 12 | 12 |
| Drip Tube 'T' (J) | 11 | 11 | 11 |
| Drip Tube End (K) | 1 | 1 | 1 |
| 1/16" Drip Tube | 3 metres | 3 metres | 3 metres |

Please check the components.

HOW THE CERAMIC PROBE WORKS

The probe, filled with water, is plunged into the soil. As the soil dries water starts to be sucked out of the porous probe causing a diaphragm to be pulled downwards allowing water to flow through the drip tubing. As the moisture in the soil increases the vacuum is reduced so that the diaphragm moves upwards restricting the water flow.



Assembly

1. Remove the dripper heads and fill the probes to the brim with tap water.
2. Replace the dripper heads firmly and leave the complete probes submerged in water for at least an hour.
3. Lay the feed tube along the area to be watered ensuring that the tube is not bent or kinked and that it will easily reach the water source. Water the area thoroughly - the probes must be placed in moist soil.
4. Press the probes into the soil close to the roots of the plants making sure that there is good contact with the soil.
5. Cut the feed tube adjacent to each probe and insert the Drip Tube T's - the drip tube end goes at the end of the line.
6. Cut sufficient 1/16" Drip Tube for each probe so that there will be about 3" protruding through the dripper head. Attach to the Dripper Tube T's and End and feed through the dripper heads. Close down the setting knobs.
7. Connect the feed tube to the water source - either to the mains via the Pressure Reducer or to an elevated tank via the Tank Connector. Turn on the water.
8. Turn each setting knob until water starts to drip from the drip tube. Close just to the point where water no longer drips, then close by two further segments (marked with arrows on the knob).

Running

The desired soil moisture level can be regulated - open more water, closed less water. Generally, one segment past the marker is sufficient. No water should drip from the tube if the soil is moist. Once set subsequent setting is not required.

Observe the system for a week or two - it will only function properly when the probe is full of water.

Generally, the surface of the soil is only moist directly below the dripper tube (the water spreads in a bulb shape underground). However, if this point is dry, it means that the setting is too low or that the probe is empty (refill and close tightly).

Ensure a constant water supply even when it rains. If the water supply has been disrupted for a long-time roots may draw water from the probes, in which case they must be refilled.

Turn the probes every two months or so to prevent water from dropping on the same spot for too long.

Maintenance & Overwintering

When dismantling the system clean the probes inside and out with water. Any encrustations must be removed using a brush or fine sandpaper. The feed hose may be left in position, but it is advisable to store the probes and drip tubes in a frost-free place. Unscrew the adjusting knobs to allow the diaphragms to relax.

General

Each probe and dripper will water an area 8"-10" in diameter. The feed tube will provide enough water for about 200ft (250 probes) in one straight length. If you wish to water a larger area, split the line into two using a 1/4" T connector just after the pressure reducer giving a maximum of 2 x 200ft (500 probes).

For best water distribution around a large, heavily planted tub, use a combination of probes and distribution drippers.

You can design your own system for your particular layout using the 1/4" T, Elbow and Straight connectors.