

Drip Eze - Techline



Design Flexibility

Drip-Eze systems are ideal for watering steep embankments, low pressure areas or windy sites and have the flexibility to fit any narrow or oddly shaped landscape area.

In fact, Drip In is perfectly suited for irrigating trees, shrubs, ground cover and turf in virtually any area where sprinklers are impractical.

Precise water application

Drip-Eze eliminates water damage that may be caused by the use of high pressure sprays. This sub surface drip irrigation system leaves no water marks on expensive walls, glass, signage or hardscape.



Significant water savings

Drip-Eze applies water directly to the root zone making it a very efficient form of irrigation. Sub-surface irrigation minimises water loss due to misting, evaporation, run off and wind draft.



Designed to be Buried

Drip-Eze when installed with a filter impregnated with Treflam prevents roots from clogging irrigation emitters. Installed below-ground, small amounts of Treflam are released with each irrigation, creating a barrier around each emitter and keeping roots away.

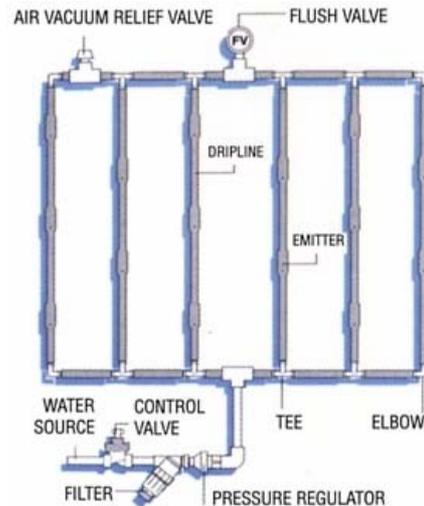
*Note - Filter cartridge needs to be replaced every 2 years

Efficient Fertigation and Chemigation

Increased efficiency means reduced amounts of chemicals are needed to effectively control weed growth and maintain the quality of the landscape, which in turn reduces the impact of substances on the environment.



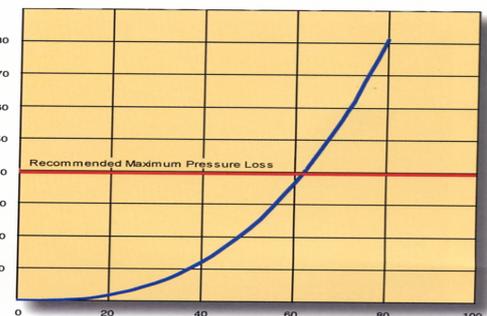
Typical Drip Irrigation Design



Safety Features

- Reduced potential liability with the risk of run off or overspray onto footpaths or road ways
- The need to handle chemically treated disk filters eliminated
- Injury problems reduced with equipment buried
- Vandalism minimised with equipment out of sight.

13 mm Drip Eze® 0.3 m Spacing Non-compensating Run Length vs Pressure Loss



Specifications

- Tube ID –13mm, Tube OD –15.4mm
- Discharge Rate: 2 litres per hour
- Recommended operating pressure range: 100 to 300kPa
- Maximum Single Lateral Run Length: 85 metres. (Based on flat ground with an inlet pressure of 300kPa and a minimum pressure in the lateral of 100kPa. Greater run lengths possible if the lateral runs downhill.)
- Tube Pressure rating 300 kPa

What is Drip Line, How do I use it & How do I install it?

The first question people ask about drip line is “wont the drippers block up with dirt”
With the use of a good quality filter, Air Valve, and Flushing valve, the chance of this happening is very remote.

Each time the system is turned on and off the Drip Line is being cleaned.

Less ongoing maintenance is achieved as the Drip Line is at soil level the water is applied directly to the soil exactly where the plant uses it. As a result water cost can be reduced as Drip Line is not affected by wind or run off.

The wetting area of Drip Line depends on your soil type for example Sandy soil, the water tends to drain straight down so you need to install your Drip Line at approx 300mm spacing, but if you have a high clay content which the water tends to remain closer to the surface so the spacing would be closer to 500mm

Drip Line is the best installed in a grid pattern with 19mm poly pipe as a header and collector pipe (as per the diagram) The best position for the air valve is at the start or the top of the system and the flushing valve at the bottom or the end of the system.

If it is too difficult to install the grid system Drip Line can be snaked through and around the plants or you can run a line both in front and behind the row of plants

As most plan roots are not all underneath the base of the plant but spread out through the garden, it is important to apply water evenly through the whole garden area.

Pressure Reducing Valves

Pressure reducing valves are used to reduce the pressure coming out of you tap down to approx 30 psi (210kpa) which is the ideal operation pressure for Drip Line

***Drip Line is not designed to hold pressure.**

Filters

Filters are used to protect your Drip Line system from any particles that are in the water from blocking your drippers and as the drippers are inside the Drip Line they cannot be replaced if blocked. If the Drip Line is going to be used sub-surface the filter needs to have a Treflam treated element inside the filter.

This is used to retard the roots from trying to enter the Drip Line

The cartridge needs to be replaced every two years.

Air Valves

The air valve is installed at the highest point of a system so that when the system is turned off it will allow air in so the water can flush out.

Flush Valves

The flush valve is installed at the lowest point so that the water flushes out of the system when the system is turned off. This allows any dirt that might have got into the system to be removed. A suggestion would be to install a small gravel pit in the area of the flush valve to disperse the excess water into the ground

Pipe Stakes

Pipe Stakes are used to hold the pipe in place on the ground. Pipe is known to move and push through the mulch.