

THIN WALLED DRIPLINES

- A light drip line containing a turbulent flow emitter inseparably welded to the upper wall of the pipe.
- Its labyrinth type emitter features a self cleaning built-in strainer at its inlet and a wide chamber at its outlet minimizing clogging.
- Long labyrinth allowing for uniform discharge rate and precise irrigation patterns at long lateral lengths.
- Ideal for row crops.

Advantages:

- Self cleaning features with minimum clogging.
- Uniform discharge rate throughout the length of the dripline.
- Easy roll-up, storage and re-use season after season.
- Durable drip lines.



Technical specifications:

- Outer diameter = 12mm & 16.5mm and 20mm
- Thickness (for 20mm) = 0.3 and 0.5mm
- Thickness (for 12mm) = 0.25, 0.4 and 0.5mm
- Thickness (for 16.5mm)=0.2, 0.3 and 0.5mm
- Discharge = 2lph & 4lph
- Spacing between the drippers= 30, 40, 50 and 60cms.
- Life of the drip lines = 2yrs for 0.2mm, 3yrs for 0.3mm and 5yrs for 0.5mm thickness drip lines.
- Requires filtration.

Applications:

- Irrigation of row crops, permanent crops, orchards and greenhouse applications.
- Crops: sugarcane, cotton, corn, banana, vegetables, etc .
- These thin walled drip lines are also used in irrigation kits which work on Ecoflo hand pump and Ecoflo treadle pump.

Hydraulic Data:

	2LPH	4LPH
PRESSURE (BAR)	MEAN FLOW (LPH)	
0.5	1.5	2.9
0.8	2.1	3.9
1	2.4	4.4
1.5	3	5.6
2	3.5	6.5



DRIPPER SPACING (CMS)- FOR 2 LPH				
	30	40	50	60
SLOPE	PIPE RUNNING IN METERS			
1% DOWN HILL	103	128	153	117
0%	88	106	123	138
1% UP HILL	71	83	92	100
DRIPPER SPACING (CMS)- FOR 4 LPH				
	30	40	50	60
SLOPE	PIPE RUNNING IN METERS			
1% DOWN HILL	64	80	94	108
0%	58	70	81	92
1% UP HILL	50	59	67	74

Comparison	Most Driplines in market	Our Flat thin walled drip lines
Thickness	Available mostly in 6-12mils 0.15-0.3mm wall thickness	Available in 8mil,12mil and 20mil wall thicknesses
Dripper size	Small dripper with short length flow path	Bigger flat dripper with in-built filter and the longest possible flow path
Flow path dimensions	Small cross-section of flow path to achieve the discharge at lower length	Bigger cross-section of flow path due to longer length for the same discharge
Discharge uniformity	Discharge more likely to vary due to smaller size of dripper and flow path	Uniform discharge is more likely during the use.
In-built filter in dripper	In-built filters if present in the drippers are much smaller in size which may get clogged	Dripper filters is significantly larger to avoid getting clogged
Drip line material characteristics	Most of the driplines available in the market are made in LLDPE base	Drip lines are made of a special mix of PE material which gives greater strength and durability than other drip lines. These are more tropicalized to work in hot-climatic conditions.
Expected life	Usually 1year life specified because of above reasons.	Minimum proven life 2years for 8mil (0.2mm), 3yrs for 12mil (0.3mm) and 5yrs for 20mil (0.5mm)

CYLINDRICAL DRIPLINES

Cylindrical dripline with a wall thickness of above 0.7mm are available for specific applications like orchards, vineyards, etc where lines are to be hung above the ground. These are also used in areas prone to physical damage. The characteristics of these cylindrical driplines are similar to the flat thin walled dripline given above.

Technical Features

- Diameter=16mm
- Discharge rates= 2 LPH and 4 LPH
- Emitter spacing is available starting from 20cm up to 100cm at any interval.

Applications:

- Irrigation of row crops, permanent crops, orchards, vineyards and greenhouse applications.
- Crops: sugarcane, cotton, corn, banana, vegetables, grapes, etc.

