



UNILITE Integral Thin Wall Drip Line

Water is one of the most essential elements that support life on earth. However, if not managed properly, this invaluable resource could deplete at a very fast rate. That is why UNIVERSAL irrigation systems company takes up the initiative of bringing a various range of effective and innovative irrigation systems to the farming, landscaping and water supply management industry.

UNILITE Drip Line

Tape integral drip-line for drip irrigation systems with flat-shaped drippers fused to the inner tube wall. **UNILITE** is clog resistant due to the unique flow path structure design. **UNILITE** drip line tape grants an easy layout and retrieval.

UNILITE has low CV $\leq 5\%$. **UNILITE** is manufactured in a wide range of different wall thicknesses. **UNILITE** is manufactured from durable materials resistant to fertilizers commonly used in irrigation. Flow rates for wall thickness of 8 mil 1.4, 1.5, 2.2, 3.9, 4.0 & 4.3 lph at 0.8 bar. Flow rates vary according to wall thickness and inlet pressures.

Applications

Cost effective solution for all kinds of field crops, vegetables, greenhouses, nurseries and fruit orchards. **UNILITE** can be used for surface and subsurface irrigation systems.

Diameter and wall thickness

Nominal outside Diameters are 12, 16, 17 mm & 22 mm. Wall Thickness, 7, 8, 10, 12, 15, 18, 20, 24 & 28 mil

Flow Rate

Flow rates slightly vary according to wall thicknesses. Maximum operating pressure vary according to wall thicknesses. Flow rates for wall thickness of 8 mils are 1.4, 1.5, 2.2, 3.9, 4.0 & 4.3 l/h, @ 0.8 bar.

Technical Information

Type	Flow (LPH)	Bar					Emitter's *	
		0.5	0.8	1.0	1.5	2.0	X	Kd
		Average Flow Rate (LPH)						
Unilite	1.4	1.03	1.40	1.53	1.84	2.17	0.40	1.53
Unilite / 10 cm Spacing	1.5	1.24	1.51	1.67	2.12	2.45	0.45	1.67
Unilite	2.2	1.72	2.16	2.44	2.93	3.40	0.55	2.44
Unilite	3.9	3.08	3.92	4.20	5.43	6.66	0.31	4.20
Unilite / Twin Drip	4.0	3.11	3.97	4.29	5.23	6.26	0.35	4.29
Unilite	4.3	3.32	4.29	4.66	5.78	6.82	0.37	4.66

● Recommended Operating Pressure 0.8 Bar

● Pipe Nominal Out Diameters 12, 16, 17 & 22 mm

● Wall Thickness 8 mil

* Two pairs of flow & pressure 0.8 & 1.0 bar



Lateral Maximum Running Length

Type	OD	Emitters Spacing in cm								
		10	20	30	40	50	60	75	100	
		Max. Lateral Running Length in Meters								
Unilite - 1.4 lph	16 mm		87	114	138	159	179	207	250	
Unilite - 1.5 lph		50	79	103	125	144	162	188	227	
Unilite - 2.2 lph			58	76	92	106	120	138	167	
Unilite - 3.9 lph			50	65	78	91	102	118	142	
Unilite - 4.0 lph			47	62	75	86	97	112	136	
Unilite - 4.3 lph			43	57	68	79	89	103	124	
Unilite - 1.4 lph	17 mm		97	127	153	177	199	231	278	
Unilite - 1.5 lph			55	88	115	139	161	181	209	252
Unilite - 2.2 lph				65	85	102	118	133	154	186
Unilite - 3.9 lph				55	72	87	101	114	131	158
Unilite - 4.0 lph				53	69	83	96	108	125	151
Unilite - 4.3 lph				48	63	76	88	99	115	138

● Wall Thickness 8 mil.

● Zero Slope.

● Flow Variation 10%.

● Inlet Pressures respectively :

10.2 m

9.8 m

9.5 m

10.9 m

10.5 m

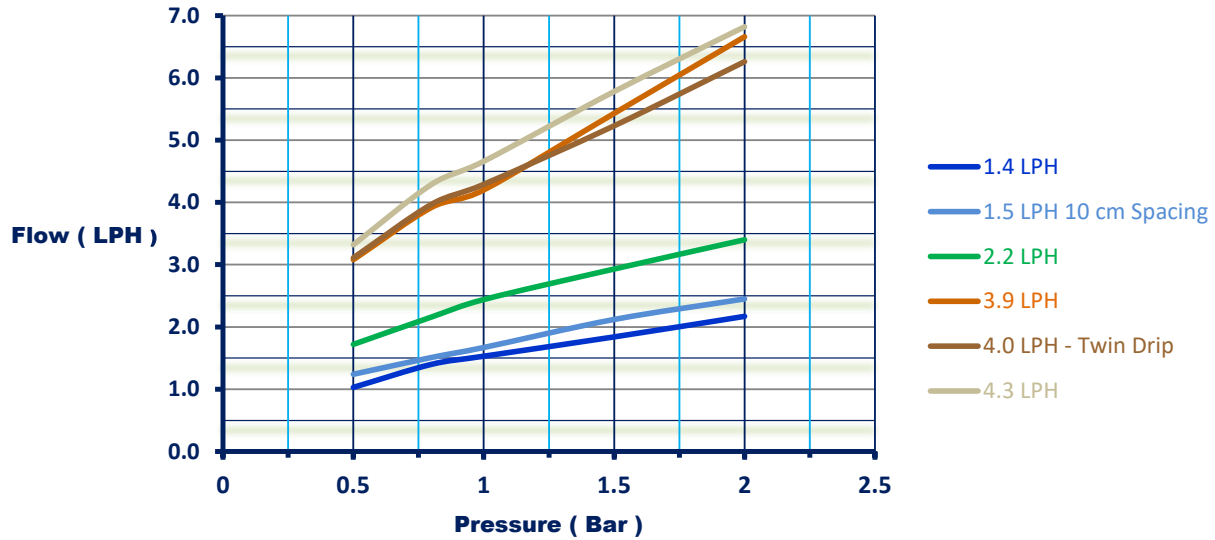
10.4 m



UNIVERSAL
IRRIGATION SYSTEMS



Flow vs. Pressure Performance Curve



How To Order

Example :-
UL 17 12 37 25

- UL : Unilite Drip Pipe
- 17 : Pipe's Out Diameter 17 in (mm)
- 12 : Pipe's Average Wall thickness 12 in (mil)
- 37 : Emitter's Average Flow Rate 3.7 in (lph) @ 0.8 Bar
- 25 : Emitters Spacing 25 in (cm)



UNILITE FITTINGS

Barbed lock type tape fittings are specifically produced according to the international standards to fit the Tape products produced by Universal. They are manufactured in 16 & 17 mm OD and are suitable for connecting the UNILITE Tape product. They are produced from quality polypropylene injection materials.



Elbow 16 X 16 mm
Elbow 16 X 17 mm



Thread Elbow 1/2" X 17 mm
Thread Elbow 3/4" X 17 mm



Sleeve End Stop 17 mm



End Stop 16 mm
End Stop 17 mm



Intended Coupling 16 X 16 mm



Intended Tee 16 X 16 X 16 mm
Intended Tee 17 X 16 X 17 mm
Intended Tee 17 X 20 X 17 mm



Off- Take W/ Rubber 13 X 17 mm



Coupling 16 X 16 mm
Coupling 17 X 17 mm



Mini Valve 16 X 16 mm
Mini Valve 16 X 17 mm

