



## 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, 6, 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
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

• Wall Thickness 8 mil

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

\* Two pairs of flow & pressure 0.8 & 1.0 bar



Twin Unilite



### 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

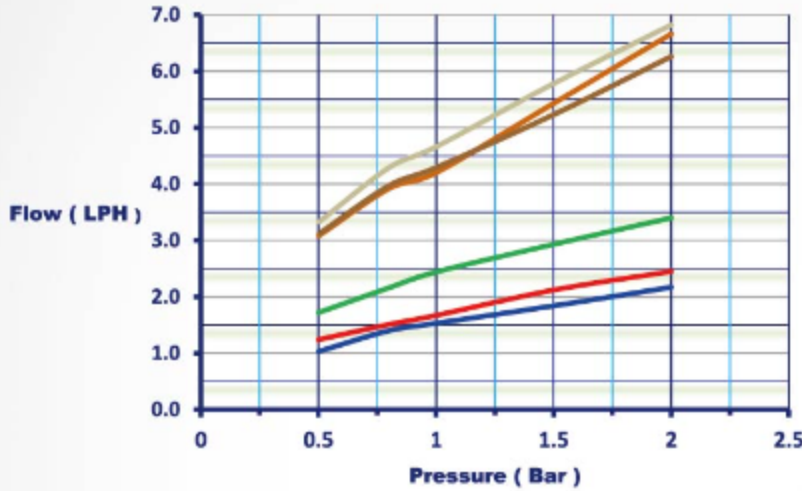
9.5 m

10.9 m

10.5 m

10.4 m

### 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



Intended Coupling 16 X 16 mm



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



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



Sleeve End Stop 17 mm



Intended Tee 17 X 20 X 17 mm  
Off- Take W/ Rubber 13 X 17 mm



End Stop 16 mm  
End Stop 17 mm



Coupling 16 X 16 mm  
Coupling 17 X 17 mm



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