UNIOVAL Integral 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 and landscaping .

UNIOVAL Drip Line

Oval integral drip-line for drip irrigation systems with long flat-shaped emitters fused to the inner pipe wall. **UNIOVAL** is clog resistant due to the long, wide & deep of emitter's labyrinth, **UNIOVAL** has a high water inlet filter's surface area & unique flow path structure design. **UNIOVAL** dripline grants an easy layout and retrieval. The oval coil design reduces delivery, handling and storage costs. Unroll for easy installation and roll up for easy removal and relocation to another field . **UNIOVAL** has low CV, ≤ 5%. **UNIOVAL** is manufactured in different wall thicknesses. **UNIOVAL** is manufactured from durable materials resistant to fertilizers commonly used in irrigation. Flow rate for wall thickness of 0.85 mm are 5.0 & 6.0 lph at 1.0 bar. Flow rates vary according to wall thickness and inlet pressures .

When pressurized, UniOval pipe becomes round just like standard round pipe – offers freight savings of up to 20% - 25%

The unique Oval configuration allows you to reduce storage space

Applications

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

Diameter and wall thickness

Nominal outside Diameter is either 16 mm or 20 mm . Wall Thickness are 0.6, 0.7, 0.8, 0.9 & 1.0 mm .

Flow Rate

Flow rates vary according to wall thicknesses. Maximum operating pressure vary according to wall thicknesses.
Flow rates for wall thickness of 0.85 mm are 5.0 & 6.0 lph @ 1.0 bar.

Technical Information

Type	Bar					Emitter's *	
	0.5	1.0	1.5	2.0	2.5		
	Average Flow Rate (LPH)					X	Kd
Unioval 16 & 20 mm - 5.0 lph	3.40	4.76	5.74	6.61	7.42	0.462	4.76
Unioval 16 & 20 mm - 6.0 lph	4.16	5.87	7.19	8.25	9.23	0.500	5.87

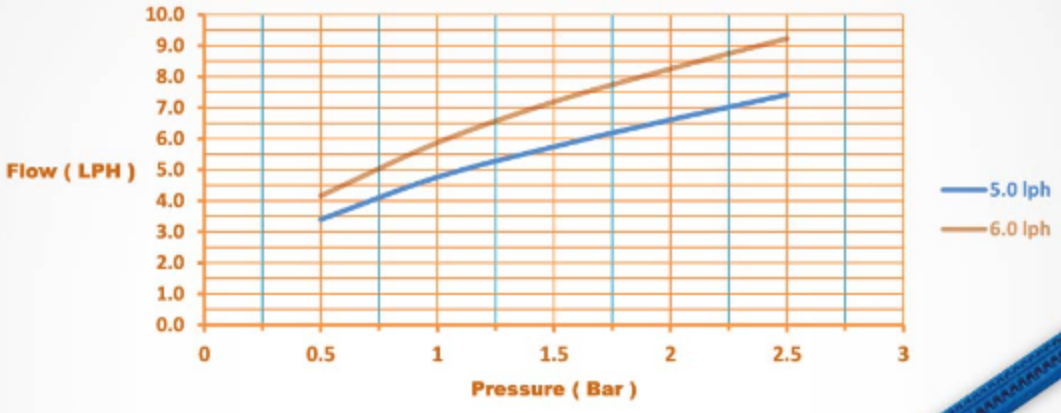
- ***Recommended Operating Pressure 1.0 Bar.***
- Wall Thickness 0.85 mm.
- Pipe Nominal Out Diameter16 mm & 20 mm
- * Two Pairs of flow & pressure, 1.0 & 1.5 bar

Lateral Maximum Running Length

Type	Emitters Spacing in cm							
	20	25	30	40	50	60	75	100
	Max. Lateral Running Length in Meters							
Unioval 16 mm - 5.0 lph	34	39	44	53	61	69	79	96
Unioval 20 mm - 5.0 lph	53	61	69	83	97	109	126	152
Unioval 16 mm - 6.0 lph	28	33	37	45	52	58	67	81
Unioval 20 mm - 6.0 lph	45	52	59	71	82	92	106	128

- Pipe Out Diameter 16 mm & 20 mm
- Inlet Pressure 12.3 m for 5.0 lph & 12.1 for 6.0 lph
- Wall Thickness 0.85 mm.
- Flow Variation 10%.
- Zero Slope.

Flow vs. Pressure Performance Curve



How To Order

Example :-

UO 16 08 40 25

UO	: Unioval Drip Pipe
16	: Pipe's Out Diameter 16 in (mm)
0 8	: Pipe's Average Wall thickness 0.8 in (mm)
40	: Emitter's Average Flow Rate 4.0 in (lph) @ 1.0 Bar
25	: Emitters Spacing 25 in (cm)

UNIOVAL FITTINGS

Barbed & pressure compression fittings are specifically produced according to the international standards to fit the product produced by Universal. They are manufactured in 16 & 20 mm OD and are suitable for connecting the UNIOVAL product. They are produced from quality polypropylene injection materials.

Elbow 16 mm
Elbow 20 mm

End Stop 16 mm
End Stop 20 mm

Tee 16 mm
Tee 20 mm

Off- Take W/ Rubber 13 X 16 mm
Off- Take W/ Rubber 13 X 20 mm

Coupling 16 mm
Coupling 20 mm

Mini Valve 16 X 16 mm
Mini Valve 20 X 20 mm

Ratchet Safety Clip 16 mm
Ratchet Safety Clip 20 mm

Rubber 16 mm
Rubber 20 mm