



UNI-PC Integral Thick Wall Pressure Compensating Drip Line

Since drip irrigation systems operate at relatively low pressures, even small variations in pressure can have a significant effect on how uniformly the system applies water to the crop. For this reason, pressure compensating drip pipes are often used, especially on fields where the elevation varies considerably, or when a long running distances of drip pipes laterals are needed.

UNI-PC Drip Line

Cylindrical integral drip-line for drip irrigation systems with cylindrical-shaped drippers, fused to the inner pipe's wall.

UNI-PC is clogging resistant due to the unique flow path structure design.

UNI-PC drip line grants an easy layout. UNI-PC has low CV $\leq 1.25\%$.

UNI-PC manufactured from durable materials resistant to fertilizers commonly used in irrigation.

UNI-PC Flow rates for wall thickness of 1.0 mm are 2.0 & 4.5 lph at 1.0 bar for OD 16 mm pipes.

UNI-PC has a constant discharge over a pressure range of 1.0 - 3.5 bars .

UNI-PC is cost effective way to irrigate crops in difficult topographical conditions, low and varying water pressures and where longer laterals are required.

UNI-PC can be produced in one, dual or more water outlets holes & from both outlet sides of the dripper.



Applications

Cost effective solution for all kinds of field row crops, vegetables, greenhouses, nurseries and fruit orchards.

UNI-PC can be used in surface and subsurface irrigation systems.

Diameter and wall thickness

Nominal outside Diameters are 16 mm . Wall Thickness, 0.7, 0.8, 0.9, 1.0 & 1.1 mm.

Flow Rate

Flow rates for wall thickness of 1.0 mm are 2.0 & 4.5 lph @ 1.0 bar, for OD 16 mm pipe .



Technical Information

Type	Bar								Emitter's *	
	0.5	0.8	1.0	1.5	2.0	2.5	3.0	3.5	X	Kd
	Average Flow Rate (LPH)									
UNI-PC -16 mm /1.97 lph	1.01	1.76	1.97	2.07	2.10	2.13	2.14	2.13	0.125	1.97
UNI-PC -16 mm /4.5 lph	3.03	3.91	4.49	4.67	4.61	4.67	4.67	4.58	0.097	4.49

Recommended Operating Pressure Range 1.0 - 3.5 Bars.

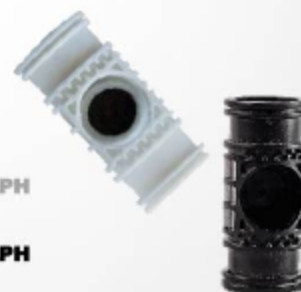
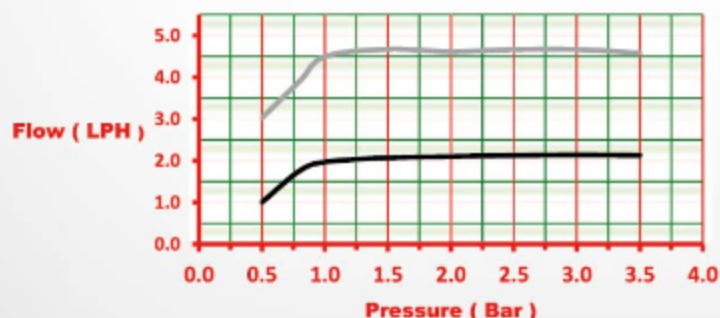
* 2 pairs of flow & pressure, 1.0 & 1.5 bars

● Pipes' Out Diameters 16 mm

● XX : Emitters Spacing in cms

● Wall Thickness 1.0 mm

Flow vs. Pressure Performance Curve



Lateral Maximum Running Length

Type	Nominal Flow (LPH)	Inlet Pressure (Bar)	Emitters Spacing in cm							
			20	25	30	40	50	60	75	100
			Max. Lateral Running Length in Meters							
UNI-PC -16 mm	2.0	1.5	78	90	102	123	142	160	185	223
		2.0	99	115	129	156	181	204	235	284
		2.5	114	132	149	180	208	235	271	327
UNI-PC -16 mm	4.5	1.5	46	53	60	72	83	94	108	130
		2.0	58	67	76	92	106	119	138	166
		2.5	67	77	87	105	122	137	159	192

• Pipe Out Diameter 16 mm

• Wall Thickness 1.0 mm.

• Zero Slope.

• Nominal Flow @ 1.0 bar

How To Order

Example :-

UPC 16 10 21 30

- UPC** : UNI-PC Drip Lines (PC- GR)
16 : Pipe's Out Diameter 16 in (mm)
10 : Pipe's Average Wall thickness 1.0 in (mm)
20 : Emitter's Average Flow Rate 2.0 in (lph) @ 1.0 - 3.5 Bars.
30 : Emitters Spacing 30 in (cm)



UNI-PC FITTINGS

Barbed type drip lines fittings are specifically produced in accordance with international standards to fit the products produced by Universal. They are manufactured in 16 mm OD and are suitable for connecting the UNI-PC thick wall product. They are produced from quality polypropylene injection materials.



Elbow 16 mm



End Stop 16 mm



Tee 16 mm



Off- Take W/ Rubber 13 X 16 mm



Coupling 16 mm



Mini Valve 16 X 16 mm



Reduced Tee 20 mm X 16 mm



Reduced Coupling 16 mm X 18 mm



Ratchet Safety Clip 16 mm



Rubber 16 mm