

THIN TO MEDIUM-WALLED PC FLAT DRIPLINE

# TopDrip



Innovative, cost effective, pressure-compensating (PC) and anti-syphon (PC AS) thin to medium-walled dripline models based on the cascade labyrinth



**TopDrip PC**  
0.6, 1.0, 1.6, 2.0, 2.2, 3.5 l/h



**TopDrip PC AS**  
0.6, 1.0, 1.6, 2.0, 2.2, 3.5 l/h

## APPLICATIONS

- Row crops like Sugercane, vegetables etc.
- Subsurface drip irrigation (SDI)
- Variable topography
- Irrigation of long rows with high uniformity

## STRUCTURE AND FEATURES

- Accurate pressure-compensating dripper
- Low CV: 3.0%
- Cascade labyrinth incorporated for maximal clog resistance
- Protection from root intrusion
- Unique double self-cleaning mechanism
- Allows longer laterals with EU of 95%
- Large water passages for optimal durability at low flow rates
- Multiple channel water inlet for operation under heavy dirt load
- Close dripper spacing creates a continuous wetted strip

## TOPDRIP PACKAGING AND SHIPPING

Carton spools						
Nominal diameter (mm)	Wall thickness (mil)	Standard coil* length (m)	Coils per pallet	Coils per 20 ft. container	Coils per 40 ft. container	Coils per 40 ft. HC container
12	13	1250	16	320	640	720
	15	1250	16	320	640	720
	18	1000	16	320	640	720
	25	700	16	320	640	720
16	13	1250	16	320	640	720
	15	1250	16	320	640	720
	18	1150	16	320	640	720
	25	600	16	320	640	720
22	13	550	16	320	640	720
	15	500	16	320	640	720
	18	450	16	320	640	720
	25	375	16	320	640	720

\* Dripper spacing can affect coil length.

## TECHNICAL DATA

Nominal diameter	Wall thickness		ID (mm)	OD (mm)	Max. Pressure (bar)	KD	Connectors
	mil	mm					Tape
12	13	0.33	12.46	11.8	1.5	1.03	●
	15	0.38	12.56	11.8	2.0	1.03	●
	18	0.45	12.70	11.8	2.2	1.03	●
	25	0.63	13.06	11.8	3.0	1.03	●
16	13	0.33	16.2	16.86	1.4	0.4	●
	15	0.38	16.2	16.96	1.8	0.4	●
	18	0.45	15.8	16.70	2.0	0.4	●
	25	0.63	15.6	16.86	2.5	0.4	●
22	13	0.33	22.2	22.86	1.2	0.3	●
	15	0.38	22.2	22.96	1.4	0.3	●
	18	0.45	22.2	23.10	1.7	0.3	●
	25	0.63	22.2	23.46	2.0	0.3	●

## SPECIAL MODEL

- PC AS: Anti-syphon design prevents suction at draining stage
- Recommended for subsurface drip irrigation

## TECHNICAL DATA

- Flow rate: 0.6, 1.0, 1.6, 2.0, 2.2, 3.5 l/h
- Pressure regulating range: 0.4-3.0 bar
- Operating pressure: 0.4-3.0 bar, according to wall thickness
- Wall thickness: 13-25 mil, 0.33-0.63 mm
- Recommended filtration: 130 micron (120 mesh)





THIN TO MEDIUM-WALLED PC FLAT DRIPLINE

# TopDrip 12 mm

**HEAD LOSS (m) IN RELATION TO LATERAL LENGTH (m), DRIPPER FLOW RATE AND SPACING (cm)**

**TopDrip 12 2.0 l/h, W.T 13 mil ID 11.8**

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	1.1	0.4	0.2	0.1	0.1	0.1	0.0
40	6.6	2.6	1.4	0.8	0.5	0.4	0.2
60		7.5	3.9	2.4	1.6	1.2	0.5
80			8.5	5.2	3.5	2.5	1.2
100				9.4	6.3	4.5	2.1
120					10.3	7.4	3.5
140							5.3
160							7.6
180							10.5

**TopDrip 12 2.0 l/h, W.T 15 mil ID 11.8**

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	1.1	0.4	0.2	0.1	0.1	0.1	0.0
40	6.6	2.6	1.4	0.8	0.5	0.4	0.2
60		7.5	3.9	2.4	1.6	1.2	0.5
80			8.5	5.2	3.5	2.5	1.2
100			15.3	9.4	6.3	4.5	2.1
120				15.3	10.3	7.4	3.5
140					15.6	11.2	5.3
160							7.6
180							10.5
200							14.0

**TopDrip 12 2.0 l/h, W.T 18 mil ID 11.8**

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	1.1	0.4	0.2	0.1	0.1	0.1	0.0
40	6.6	2.6	1.4	0.8	0.5	0.4	0.2
60		7.5	3.9	2.4	1.6	1.2	0.5
80			16.1	8.5	5.2	3.5	1.2
100				15.3	9.4	6.3	4.5
120					15.3	10.3	7.4
140						15.6	11.2
160							16.1
180							10.5
200							14.0

**TopDrip 12 2.0 l/h, W.T 25 mil ID 11.8**

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.9	0.4	0.2	0.1	0.1	0.1	0.0
40	5.7	2.3	1.2	0.7	0.5	0.4	0.2
60	16.4	6.6	3.5	2.2	1.5	1.0	0.5
80		14.2	7.5	4.6	3.1	2.3	1.1
100		25.6	13.7	8.5	5.7	4.1	2.0
120			22.3	13.8	9.4	6.8	3.2
140				21.0	14.3	10.3	4.9
160					20.5	14.8	7.1
180						20.5	9.8
200							13.1
220							17.0
240							21.6

**TopDrip 12 2.2 l/h, W.T 13 mil ID 11.8**

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	1.3	0.5	0.3	0.2	0.1	0.1	0.0
40	7.7	3.0	1.6	1.0	0.6	0.5	0.2
60		8.8	4.6	2.8	1.9	1.4	0.6
80			9.9	6.1	4.1	2.9	1.4
100				11.0	7.4	5.3	2.5
120						8.7	4.1
140							6.3
160							9.0

**TopDrip 12 2.2 l/h, W.T 15 mil ID 11.8**

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	1.3	0.5	0.3	0.2	0.1	0.1	0.0
40	7.7	3.0	1.6	1.0	0.6	0.5	0.2
60		8.8	4.6	2.8	1.9	1.4	0.6
80			9.9	6.1	4.1	2.9	1.4
100				11.0	7.4	5.3	2.5
120					12.1	8.7	4.1
140						13.2	6.3
160							9.0
180							12.4

**TopDrip 12 2.2 l/h, W.T 18 mil ID 11.8**

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	1.3	0.5	0.3	0.2	0.1	0.1	0.0
40	7.7	3.0	1.6	1.0	0.6	0.5	0.2
60		8.8	4.6	2.8	1.9	1.4	0.6
80			9.9	6.1	4.1	2.9	1.4
100				18.0	11.0	7.4	5.3
120					18.0	12.1	8.7
140							13.2
160							9.0
180							12.4
200							16.6

**TopDrip 12 2.2 l/h, W.T 25 mil ID 11.8**

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	1.1	0.4	0.2	0.1	0.1	0.1	0.0
40	6.6	2.6	1.4	0.9	0.6	0.4	0.2
60	19.2	7.7	4.1	2.5	1.7	1.2	0.6
80		16.6	8.8	5.5	3.7	2.7	1.3
100			16.1	10.0	6.8	4.9	2.3
120				16.3	11.1	8.0	3.8
140					24.7	16.8	12.2
160						24.1	17.5
180							24.1
200							15.5
220							20.1
240							25.6

**TopDrip-12 3.5 l/h W.T 13 mil ID 11.8**

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	2.7	1.1	0.6	0.3	0.2	0.2	0.1
40			3.5	2.1	1.4	1	0.5
60					4.1	3	1.5
80							3.2

**TopDrip-12 3.5 l/h W.T 15 mil ID 11.8**

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	2.7	1.1	0.6	0.3	0.2	0.2	0.1
40		6.6	3.5	2.1	1.4	1	0.5
60				6.1	4.1	3	1.5
80					9.1	6.6	3.2
100							5.8
120							9.4

**TopDrip-12 3.5 l/h W.T 18 mil ID 11.8**

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	2.7	1.1	0.6	0.3	0.2	0.2	0.1
40		6.6	3.5	2.1	1.4	1	0.5
60			10.2	6.1	4.1	3	1.5
80					9.1	6.6	3.2
100						11.8	5.8
120							9.4

**TopDrip-12 3.5 l/h W.T 25 mil ID 11.8**

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	2.4	0.9	0.5	0.3	0.2	0.2	0.1
40	14.1	5.8	3.1	1.9	1.3	1	0.5
60		17	9.1	5.5	3.8	2.7	1.4
80			19.4	12	8.3	6	2.9
100					15.1	10.9	5.4
120						18	8.8
140							13.4
160							19.3



THIN TO MEDIUM-WALLED PC FLAT DRIPLINE

# TopDrip 16 mm

**HEAD LOSS (m) IN RELATION TO LATERAL LENGTH (m), DRIPPER FLOW RATE AND SPACING (cm)**

TopDrip 16, 1.6 l/h, W.T 13-15mil, ID 16.2							
Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100
20	0.1						
40	0.7	0.3	0.2	0.1	0.1		
60	2.0	0.8	0.4	0.3	0.2	0.1	0.1
80	4.3	1.8	0.9	0.6	0.4	0.3	0.1
100	7.7	3.2	1.7	1.1	0.7	0.5	0.3
120	12.6	5.3	2.8	1.8	1.2	0.9	0.4
140		7.9	4.3	2.7	1.9	1.3	0.7
160		11.4	6.2	3.9	2.7	1.9	1.0
180			8.5	5.3	3.7	2.7	1.3
200			11.3	7.1	4.9	3.6	1.8
220				9.2	6.4	4.7	2.3
240				11.7	8.1	5.9	2.9
260					10.1	7.4	3.6
280					12.3	9.1	4.4
300						10.9	5.4
320							6.4
340							7.6
360							8.9
380							10.3
400							11.9

TopDrip 16, 1.6 l/h, W.T 18mil, ID 15.8							
Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100
20	0.1						
40	0.7	0.3	0.2	0.1	0.1	0.1	
60	2.1	0.9	0.5	0.3	0.2	0.1	0.1
80	4.5	1.9	1.0	0.6	0.4	0.3	0.2
100	8.2	3.4	1.9	1.2	0.8	0.6	0.3
120	13.4	5.6	3.0	1.9	1.3	1.0	0.5
140		8.5	4.6	2.9	2.0	1.5	0.7
160		12.2	6.7	4.2	2.9	2.1	1.0
180			9.2	5.8	4.0	2.9	1.4
200			12.2	7.7	5.4	3.9	1.9
220				10.0	6.9	5.1	2.5
240				12.7	8.9	6.4	3.2
260					11.0	8.1	4.0
280						9.9	4.9
300						12.0	5.9
320							7.1
340							8.4
360							9.8
380							11.4

TopDrip 16, 1.6 l/h, W.T 25mil, ID 15.6							
Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100
20	0.1						
40	0.7	0.3	0.2	8	0.1	0.1	
60	2.2	0.9	0.5	0.3	0.2	0.2	0.1
80	4.7	2	1.1	0.7	0.5	0.3	0.2
100	8.6	3.6	2	1.2	0.9	0.6	0.3
120	14	5.9	3.2	2	1.4	1.0	0.5
140	21.2	9	4.9	3.1	2.2	1.6	0.8
160		12.9	7.1	4.5	3.1	2.3	1.1
180		17.7	9.8	6.2	4.3	3.2	1.6
200		23.7	13.0	8.2	5.7	4.2	2.1
220			16.9	10.7	7.4	5.5	2.7
240			21.5	13.6	9.5	6.9	3.4
260				17	11.8	8.7	4.3
280				20.8	14.4	10.7	5.3
300					17.5	12.9	6.4
320					20.9	15.4	7.6
340						18.2	9
360						21.3	10.6
380							12.3
400							14.2
420							16.3
440							18.5

TopDrip 16, 2.0l/h, W.T 13-15mil, ID 16.2							
Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100
20	0.2	0.1	0.1	0.1	0.1	0.1	0.1
40	1	0.4	0.3	0.2	0.1	0.1	0.1
60	2.8	1.2	0.7	0.4	0.3	0.2	0.1
80	6	2.5	1.4	0.9	0.6	0.5	0.3
100	10.1	4.6	2.5	1.6	1.1	0.8	0.4
120		7.5	4.1	2.6	1.8	1.3	0.7
140		10.5	6.2	3.9	2.7	2	1
160			9	5.6	3.9	2.9	1.4
180				7.8	5.4	3.9	1.9
200				10.4	7.2	5.3	2.6
220					9.4	6.8	3.6
240						8.7	4.3
260							5.3
280							6.5
300							7.9
320							9

TopDrip 16, 2.0l/h, W.T 18mil, ID 15.8							
Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100
20	0.2	0.1	0.1	0.1	0.1	0.1	0.1
40	1	0.5	0.3	0.2	0.1	0.1	0.1
60	3	1.3	0.7	0.5	0.3	0.3	0.1
80	6.3	2.7	1.5	1	0.7	0.5	0.3
100	11.7	5	2.7	1.7	1.2	0.9	0.5
120		8.1	4.4	2.8	2	1.4	0.7
140		12.3	6.7	4.3	3	2.2	1.1
160			9.7	6.1	4.3	3.1	1.6
180			13.4	8.5	5.9	4.3	2.1
200				11.3	7.8	5.8	2.8
220				14.7	10.2	7.5	3.7
240					13	9.5	4.7
260					16.2	11.9	5.9
280						14.4	7.2
300						16.8	8.7
320							10.4
340							12.3
360							14.5
380							16.8

TopDrip 16, 2.0l/h, W.T 25mil, ID 15.6							
Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100
20	0.2	0.1	0.1	0.1	0.1	0.1	0.1
40	1	0.5	0.3	0.2	0.1	0.1	0.1
60	3	1.3	0.7	0.5	0.3	0.3	0.2
80	6.6	2.8	1.6	1	0.7	0.5	0.3
100	12	5.1	2.8	1.8	1.3	0.9	0.5
120	19.7	8.4	4.6	2.9	2	1.5	0.8
140		12.7	7	4.4	3.1	2.3	1.1
160		18.3	10.1	6.4	4.5	3.3	1.6
180			14	8.8	6.2	4.5	2.2
200			18.6	11.8	8.2	6.1	3
220				15.4	10.7	7.8	3.9
240				19.5	13.6	10	4.9
260					16.9	12.5	6.2
280					20.9	15.3	7.6
300						18.6	9.2
320						21.5	11
340							13
360							15.2
380							17.7
400							20.4

THIN TO MEDIUM-WALLED PC FLAT DRIPLINE

# TopDrip 16 mm

**HEAD LOSS (m) IN RELATION TO LATERAL LENGTH (m), DRIPPER FLOW RATE AND SPACING (cm)**

**TopDrip 16, 2.2l/h, W.T 13-15mil, ID 16.2**

Dripper spacing (cm)

Lateral length(m)	20	30	40	50	60	70	100
20	0.2	0.1	0.1	0.1	0.1	0.1	0.1
40	1.1	0.5	0.3	0.2	0.1	0.1	0.1
60	3.3	1.4	0.8	0.5	0.4	0.3	0.2
80	7.1	3	1.6	1	0.7	0.5	0.3
100		5.4	3	1.9	1.3	1	0.5
120		8.8	4.8	3	2.1	1.5	0.8
140			7.4	4.6	3.2	2.4	1.2
160				6.7	4.6	3.4	1.7
180				9.2	6.4	4.7	2.3
200					8.5	6.2	3.1
220						8.1	4
240							5
260							6.3
280							7.7
300							9.4

**TopDrip 16, 2.2l/h, W.T 18mil, ID 15.8**

Dripper spacing (cm)

Lateral length(m)	20	30	40	50	60	70	100
20	0.2	0.1	0.1	0.1	0.1	0.1	0.1
40	1.2	0.5	0.3	0.2	0.2	0.1	0.1
60	3.5	1.5	0.8	0.5	0.4	0.3	0.2
80	7.5	3.2	1.8	1.1	0.8	0.6	0.3
100	13.7	5.8	3.2	2	1.4	1	0.5
120		9.5	5.2	3.3	2.3	1.7	0.8
140		14.4	7.9	5	3.5	2.6	1.3
160			11.4	7.2	5.1	3.7	1.8
180			15.8	10	7	5.1	2.5
200				13.3	9.3	6.8	3.4
220					12.1	8.8	4.4
240					15.3	11.3	5.6
260						14.1	6.9
280						16.2	8.5
300							10.3
320							12.3
340							14.6

**TopDrip 16, 2.2l/h, W.T 25mil, ID 15.6**

Dripper spacing (cm)

Lateral length(m)	20	30	40	50	60	70	100
20	0.2	0.1	0.1	0.1	0.1	0.1	0.1
40	1.2	0.5	0.3	0.2	0.2	0.1	0.1
60	3.6	1.5	0.9	0.5	0.4	0.3	0.2
80	7.7	3.3	1.8	1.2	0.8	0.6	0.3
100	14.1	6	3.3	2.1	1.5	1.1	0.6
120		9.8	5.4	3.4	2.4	1.8	0.9
140		15	8.3	5.2	3.6	2.7	1.3
160		21.5	11.9	7.5	5.3	3.9	1.9
180			16.5	10.4	7.3	5.3	2.6
200			21.1	14	9.7	7.2	3.5
220				18.1	12.7	9.3	4.6
240					16.1	11.8	5.8
260					20	14.8	7.3
280						18.1	9
300						22	10.9
320							13
340							15.4
360							18
380							21

**TopDrip-16 3.5 l/h W.T 13-15 mil ID 11.8**

Dripper spacing (cm)

Lateral length(m)	20	30	40	50	60	70	100
20	0.4	0.2	0.1	0.1			
40	2.5	1	0.6	0.3	0.2	0.2	0.1
60		3.1	1.7	1	0.7	0.5	0.3
80			3.6	2.3	1.6	1.2	0.6
100				4.2	2.9	2.1	1.1
120					4.8	3.5	1.7
140							2.6
160							3.8

**TopDrip-16 3.5 l/h W.T 18 mil ID 11.8**

Dripper spacing (cm)

Lateral length(m)	20	30	40	50	60	70	100
20	0.4	0.2	0.1	0.1			
40	2.6	1.1	0.6	0.4	0.3	0.2	0.1
60	7.8	3.3	1.8	1.1	0.8	0.6	0.3
80		7.1	3.9	2.5	1.7	1.3	0.6
100			7.2	4.5	3.1	2.3	1.2
120				7.5	5.2	3.8	1.9
140					8	5.8	2.9
160						8.4	4.2
180							5.8
200							7.8

**TopDrip-16 3.5 l/h W.T 25 mil ID 11.8**

Dripper spacing (cm)

Lateral length(m)	20	30	40	50	60	70	100
20	0.4	0.2	0.1	0.1			
40	2.7	1.1	0.6	0.4	0.3	0.2	0.1
60	8	3.4	1.9	1.2	0.8	0.6	0.3
80		7.4	4.1	2.6	1.8	1.3	0.7
100		13.6	7.5	4.7	3.3	2.4	1.2
120			12.3	7.8	5.5	4	2
140				11.9	8.3	6.1	3.1
160					12	8.8	4.4
180						12.3	6.1
200							8.2
220							10.7
240							13.6

\* Minimum working pressure 0.4 bar. Maximum working pressure according to wall thickness.

