



DRIP IRRIGATION

NaanDanJain's dripline technologies provide **efficient, flexible and cost-effective solutions** for a wide range of crops in diverse conditions, **tailored to varied customer** needs. Our extensive product range includes pressure-compensating driplines, traditional driplines, thin-walled driplines, button drippers and LayFlats.

NAANDANJAIN

A **JAIN IRRIGATION** COMPANY

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Introduction

NaanDanJain develops, manufactures and markets the largest selection of comprehensive irrigation technologies in the world, designed for economical and efficient water management.

With over seventy years of experience, the company operates in over 90 countries in all continents, meeting all the requirements of efficient modern irrigation. NaanDanJain's wide range of dripline technologies provides efficient, flexible and cost-effective solutions for a wide range of crops in diverse conditions, tailored to varied customer needs.

NaanDanJain's dripline range provides optimum solutions for subsurface drip irrigation, organic agriculture, greenhouse technologies, and ecological applications.

NaanDanJain's 800-hectare farm includes open fields, citrus orchards and avocado plantations that serve as a large scale testing site for the company's intensive R&D.

NaanDanJain's state-of-the-art dripline laboratory operates according to the international NaanDanJain is a ISO 9001:2008 and ISO 14001:2004 certified company.

The Cascade Labyrinth

The Cascade Labyrinth incorporated in all our drippers signifies a breakthrough in low-volume labyrinth systems. The unique structure of the dripper facilitates intensified self-cleaning, preventing clogging and vastly improving durability.

ADVANTAGES

- Reliable use of low-volume drippers
- Unique self-cleaning operation
- Wider water passages
- Very high resistance to clogging
- Long-term flow accuracy and uniformity
- Longer laterals
- Lower costs per area
- Extended product life

DOUBLE FLOW SYSTEM

The Cascade labyrinth teeth create a double-flow regime that combines rapid central flow with cyclone turbulence, facilitating constant cleaning and flushing. This prevents clogging and improves dripper durability.

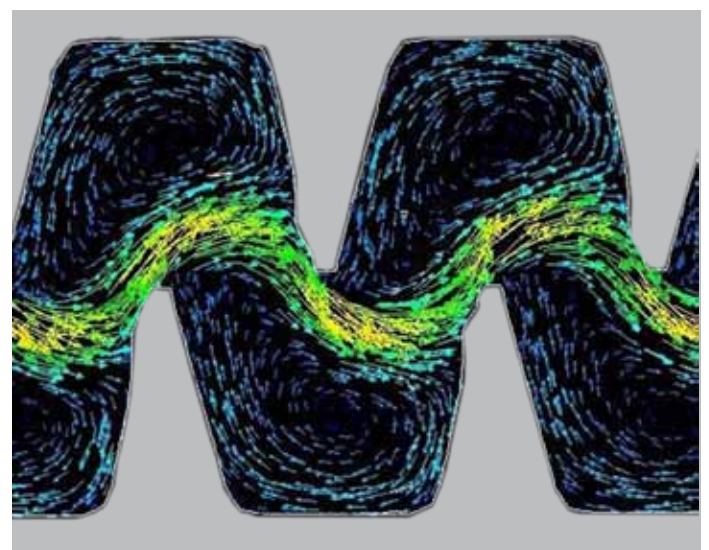
EFFICIENT SELF-CLEANING

During the self-cleaning process, dirt and sand particles that penetrate the filtration system are washed away, preventing sedimentation and clogging.

HYDRAULIC CHARACTERISTIC OF THE LABYRINTH

The regulating ratio of the Cascade labyrinth is 1:2.2 - while the pressure is doubled, the flow rate changes only by 45%.

VELOCITY VECTORS IN THE CASCADE LABYRINTH



- Fast central flow
- Cyclone turbulence, self cleaning flow

THICK-WALLED PC FLAT DRIPLINE

AmnonDrip PC, CNL & PC AS



Innovative, pressure-compensating (PC) dripline with special anti-syphon (AS) and compensating non-leakage (CNL) models. Cascade labyrinth feature incorporated in all drippers

APPLICATIONS

- Ideal solution for irrigation in topographically challenging terrain, and where long laterals are required
- CNL option for pulse irrigation of orchards, open field crops and greenhouses
- Subsurface Drip Irrigation (SDI), for accurate irrigation of orchards, open field crops and greenhouses

STRUCTURE AND FEATURES

- Pressure-compensating (PC) enabling water application accuracy at variable topography and the installation of long laterals
- Efficient self-cleaning turbulence provided by the Cascade labyrinth
- Hydrodynamic dripper design ensures continuous flushing of sediments and small dirt particles
- Low CV for maximal uniformity
- Weir structure improves root intrusion resistance and sand suction
- 3D water inlet structure improves clog resistance
- High-quality silicon diaphragm
- Both carton and coil package options are available (see packing and shipping table)
- Colored cap facilitates easy identification of dripper models

SPECIAL MODELS

- CNL: Pressure-compensating non-leakage design reduces lateral filling time and facilitates pulse irrigation
- PC AS: Pressure compensating anti-syphon design prevents suction at draining stage. Suitable for subsurface drip irrigation

AmnonDrip PC



0.5, 1.1, 1.6, 2.0, 2.2, 3.8 l/h

AmnonDrip CNL



0.5, 1.1, 1.6, 2.0, 2.2, 3.8 l/h

AmnonDrip PC AS



0.5, 1.1, 1.6, 2.0, 2.2, 3.8 l/h



TECHNICAL DATA

- Flow rates: 0.5, 1.1, 1.6, 2.0, 2.2, 3.8 l/h
- CNL: Opening pressure - 1 bar
Closing pressure - 0.2 bar
- AS: Opening pressure - 0.5 bar
- Pressure regulating range:
PC & AS models - 0.5-4.0 bar
PC CNL - 1.0-4.0 bar
- Recommended filtration: 130 micron (120 mesh)

THICK-WALLED PC FLAT DRIPLINE

AmnonDrip PC, CNL & PC AS

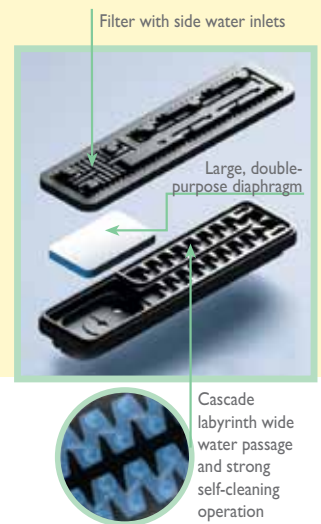
TECHNICAL DATA

Nominal diameter (mm)	Wall thickness		OD (mm)	ID (mm)	Maximum Pressure (bar)	KD	Connector type	
	(mm)	(mil)					Barb	Tape
16	0.63	25	15.16	13.9	2.5	0.92	●	
	0.90	35	15.70	13.9	3.0	0.92	●	
	1.00	39	15.90	13.9	3.5	0.92	●	
	1.15	45	16.20	13.9	3.5	0.92	●	
17	0.63	25	16.90	15.6	2.5	0.75		●
	0.90	35	16.20	14.4	3.0	0.75	●	
	1.00	39	16.40	14.4	3.0	0.75	●	
20	1.00	39	19.70	17.70	3.0	0.65	●	
	1.20	47	20.10	17.70	3.5	0.65	●	
23	1.00	39	22.80	20.8	3.0	0.14		●

TOP VIEW



BOTTOM VIEW



AMNONDRIP PACKAGING AND SHIPPING

Carton spools

Nominal diameter (mm)	Wall thickness (mm)	Standard coil length (m)	Coils per 20 ft. container	Coils per 40 ft. container	Coils per 40 ft. HC container
16	0.63	600	320	640	720
	0.90	400	320	640	720
	1.00	400	320	640	720
17	0.63	600	320	640	720
	0.90	400	320	640	720
	1.00	400	320	640	720
20	0.90	300	320	640	720
	1.00	300	320	640	720
23	1.00	300	320	640	720



Coils

Nominal diameter (mm)	Wall thickness (mm)	Standard coil length (m)	Coils per 20 ft. container	Coils per 40 ft. container	Coils per 40 ft. HC container
16	0.90	500	150	320	360
	1.00	500	150	320	360
	1.15	500	150	320	360
17	0.90	500	150	320	360
	1.00	500	150	320	360
	1.20	500	150	320	360
20	1.00	300	150	345	365
	1.20	300	150	345	365

* Dripper spacing can affect coil length.



Available also in brown, white, purple or any other color for a minimum order of 40K m

THICK-WALLED PC FLAT DRIPLINE

AmnonDrip 16mm



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

AmnonDrip-16mm 0.5- l/h W.T 0.9-1.15 mm ID 13.9							
Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20							
40	0.3	0.1	0.1				
60	0.9	0.3	0.2	0.1	0.1		
80	1.9	0.7	0.4	0.2	0.1	0.1	
100	3.4	1.3	0.7	0.4	0.3	0.2	0.1
120	5.5	2.2	1.1	0.7	0.5	0.3	0.1
140	8.4	3.3	1.7	1	0.7	0.5	0.2
160	12.1	4.7	2.4	1.5	1	0.7	0.3
180	16.6	6.4	3.3	2	1.4	1	0.5
200		8.6	4.4	2.7	1.8	1.3	0.6
220		11.1	5.8	3.5	2.3	1.7	0.8
240		14	7.3	4.4	3	2.1	1
260		17.5	9.1	5.5	3.7	2.7	1.2
280			11.1	6.8	4.5	3.3	1.5
300			13.4	8.2	5.5	3.9	1.9
320			16.1	9.8	6.6	4.7	2.2
340			19	11.5	7.7	5.5	2.6
360				13.5	9	6.5	3.1
380				15.6	10.5	7.5	3.6
400				18	12.1	8.7	4.1
420					13.8	10	4.7
440					15.8	11.3	5.3
460					17.8	12.8	6
480					20	14.4	6.8
500						16.1	7.6

AmnonDrip 16, 1.1l/h, W.T 0.9-1.15mm, ID 13.9							
Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.2	0.1					
40	0.9	0.4	0.2	0.1	0.1	0.1	
60	2.8	1.1	0.6	0.3	0.2	0.2	0.1
80	6	2.3	1.2	0.7	0.5	0.4	0.2
100	11	4.3	2.2	1.4	0.9	0.6	0.3
120	18	7.1	3.7	2.2	1.5	1.1	0.5
140		10.7	5.6	3.4	2.3	1.6	0.8
160		15.4	8	4.9	3.3	2.4	1.1
180		21.2	11.1	6.8	4.6	3.3	1.5
200			14.8	9	6.1	4	2.1
220			19.2	11.7	7.9	5.7	2.7
240			24.3	14.9	10.1	7.2	3.4
260				18.5	12.5	9	4.3
280				22.7	15.3	11.1	5.2
300					18.6	13.4	6.3
320					22.2	16	7.6
340						18.9	9
360						22.1	10.5
380						25.6	12.2
400							14.1
420							16.1
440							18.4
460							20.8
480							23.4

AmnonDrip 16, 1.6l/h, W.T 0.9-1.15mm, ID 13.9							
Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.3	0.1	0.1				
40	1.8	0.7	0.4	0.2	0.1	0.1	0.1
60	5.2	2.1	1.1	0.6	0.4	0.3	0.1
80	11.4	4.5	2.3	1.4	1	0.7	0.3
100	20.8	8.2	4.3	2.6	1.7	1.2	0.6
120		13.5	7	4.3	2.9	2.1	1
140		20.4	10.7	6.5	4.4	3.1	1.5
160			15.4	9.4	6.4	4.6	2.2
180			21.2	13	8.8	6.4	3
200				17.4	11.8	8.4	4
220				22.6	15.3	11	5.3
240					19.5	14	6.7
260					24.3	17.5	8.3
280						21.5	10.2
300						25.9	12.4
320							14.8
340							17.5
360							20.6
380							23.9

AmnonDrip 16, 2.0l/h, W.T 0.9-1.15mm, ID 13.9							
Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.4	0.2	0.1	0.1	0.1	0.1	0.1
40	2.5	1	0.5	0.3	0.2	0.2	0.1
60	7.4	2.9	1.6	1	0.7	0.5	0.3
80	16.2	6.4	3.4	2.1	1.4	1	0.5
100	25.8	11.8	6.2	3.8	2.6	1.9	0.9
120		19.3	10.2	6.2	4.2	3	1.5
140		25.6	15.6	9.5	6.4	4.7	2.2
160			22.4	13.7	9.4	6.8	3.2
180				19	12.9	9.3	4.4
200				25.4	17.2	12.5	5.9
220					22.5	16.1	7.5
240						20.6	9.8
260						25.6	12.2
280							15
300							18.2
320							21.8
340							25.8

AmnonDrip 16, 2.2l/h, W.T 0.9-1.15mm, ID 13.9							
Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.5	0.2	0.1	0.1			
40	3	1.2	0.6	0.4	0.3	0.2	0.1
60	9	3.6	1.9	1.1	0.7	0.5	0.3
80	19.6	7.7	4.0	2.5	1.7	1.2	0.6
100		14.2	7.4	4.5	3.1	2.2	1.1
120		23.4	12.2	7.5	5.1	3.6	1.7
140			18.6	11.4	7.7	5.5	2.7
160				16.5	11.1	8.0	3.8
180				22.8	15.5	11.2	5.3
200					20.7	14.8	7.1
220						19.4	9.3
240						24.6	11.8
260							14.7
280							18.1
300							21.9

AmnonDrip 16, 3.8 l/h, 0.9-1.15mm, ID 13.9							
Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	0.70	100
20	1.2	0.5	0.3	0.1	0.1	0.1	
40	7.7	3.0	1.6	1.0	0.7	0.5	0.2
60	22.9	9.2	4.8	2.9	2.0	1.4	0.7
80		19.9	10.4	6.4	4.4	3.2	1.5
100			19.2	11.8	8.0	5.8	2.8
120				19.5	13.3	9.6	4.6
140					20.3	14.5	7.1
160						21.2	10.2
180							14.1
200							18.9
220							
240							
260							
280							
300							

THICK-WALLED PC FLAT DRIPLINE

AmnonDrip 17mm - W.T 0.63mm



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

AmnonDrip-17mm 0.5 l/h PC W.T 0.63 mm ID 15.6

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
40	0.2	0.1					
60	0.6	0.2	0.1	0.1			
80	1.3	0.5	0.3	0.2	0.1	0.1	
100	2.3	0.9	0.5	0.3	0.2	0.1	0.1
120	3.6	1.4	0.7	0.4	0.3	0.2	0.1
140	5.4	2.1	1.1	0.7	0.5	0.3	0.1
160	7.7	3	1.6	1	0.6	0.5	0.2
180	10.5	4.1	2.2	1.3	0.9	0.6	0.3
200	13.8	5.5	2.8	1.7	1.2	0.8	0.4
220		7	3.7	2.2	1.5	1.1	0.5
240		8.8	4.6	2.8	1.9	1.4	0.6
260		10.9	5.7	3.5	2.4	1.7	0.8
280		13.3	7	4.3	2.9	2.1	1
300			8.4	5.1	3.5	2.5	1.2
320			10	6.1	4.1	2.9	1.4
340			11.7	7.2	4.8	3.5	1.6
360			13.7	8.4	5.6	4	1.9
380				9.7	6.5	4.7	2.2
400				11.1	7.5	5.4	2.5
420				12.6	8.5	6.1	2.9
440				14.3	9.7	7	3.3
460					10.9	7.9	3.7
480					12.2	8.8	4.2
500					13.7	9.8	4.7

AmnonDrip 17, 1.1l/h, W.T 0.63mm, ID 15.6

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40	0.6	0.3	0.2	0.1	0.1	0.1	0.1
60	1.8	0.7	0.4	0.3	0.2	0.2	0.1
80	3.8	1.5	0.8	0.5	0.4	0.3	0.2
100	6.8	2.7	1.4	0.9	0.6	0.5	0.2
120	10.9	4.4	2.3	1.4	1	0.7	0.4
140	16.4	6.6	3.5	2.1	1.5	1.1	0.5
160		9.4	5	3	2.1	1.5	0.7
180		12.8	6.8	4.2	2.8	2	1
200		17	9	5.5	3.8	2.7	1.3
220			11.6	7.1	4.9	3.5	1.7
240			14.7	9	6.1	4.4	2.1
260			18.2	11.2	7.6	5.5	2.6
280				13.6	9.3	6.7	3.2
300				16.4	11.2	8.1	3.8
320				19.6	13.3	9.6	4.6
340					15.6	11.3	5.4
360					18.3	13.2	6.3
380						15.3	7.3
400						17.6	8.4
420						20.1	9.6
440							10.9
460							12.3
480							13.8
500							15.4

AmnonDrip 17, 1.6l/h, W.T 0.63mm, ID 15.6

Lateral length(m)	Dripper spacing (cm)						
	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	3.6	1.3	0.7	0.4	0.3	0.2	0.1
80	6.9	2.8	1.5	0.9	0.6	0.5	0.2
100	12.4	5	2.7	1.6	1.1	0.8	0.4
120	20.1	8.1	4.3	2.6	1.8	1.3	0.6
140		12.2	6.5	4	2.7	2	0.9
160		17.4	9.3	5.7	3.9	2.8	1.3
180			12.7	7.8	5.3	3.8	1.8
200			16.9	10.4	7.1	5.1	2.4
220				13.4	9.2	6.6	3.1
240				17	11.6	8.4	4
260					14.4	10.4	5
280					17.6	12.7	6.1
300						15.4	7.3
320						18.3	8.7
340							10.3
360							12.1
380							14
400							16.1
420							18.4
440							20.9

AmnonDrip 17, 2.0l/h, W.T 0.63mm, ID 15.6

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.3	0.1	0.1	0.1	0.1	0.1	0.1
40	1.6	0.7	0.4	0.2	0.2	0.1	0.1
60	4.6	1.9	1	0.6	0.4	0.3	0.2
80	9.9	4	2.1	1.3	0.9	0.7	0.3
100	17.9	7.2	3.8	2.4	1.6	1.2	0.6
120		11.7	6.2	3.8	2.6	1.9	0.9
140		17.7	9.4	5.8	3.9	2.9	1.4
160			13.5	8.3	5.7	4.1	2
180			18.5	11.4	7.8	5.6	2.7
200				15.2	10.3	7.5	3.6
220				19.6	13.4	9.7	4.6
240					17	12.3	5.9
260						15.3	7.3
280						18.7	8.9
300							10.8
320							12.9
340							15.2
360							17.8
380							20.7

AmnonDrip 17, 2.2l/h, W.T 0.63mm, ID 15.6

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.3	0.2	0.1	0.1	0.1	0.1	0.1
40	1.9	0.8	0.4	0.3	0.2	0.2	0.1
60	5.4	2.2	1.2	0.7	0.5	0.4	0.2
80	11.5	4.7	2.5	1.5	1.1	0.8	0.4
100	20.3	8.5	4.5	2.8	1.9	1.4	0.7
120		13.7	7.3	4.5	3.1	2.2	1.1
140		20.5	11	6.8	4.6	3.4	1.6
160			15.8	9.7	6.7	4.8	2.3
180				13.4	9.2	6.6	3.2
200				17.8	12.1	8.8	4.2
220					15.8	11.4	5.4
240					20	14.5	6.9
260						18.5	8.6
280							10.5
300							12.7
320							15.2
340							18
360							21

AmnonDrip 17, 3.8l/h, W.T 0.63mm, ID 15.6

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.7	0.3	0.2	0.1	0.1	0.1	0.1
40	4.4	1.8	1	0.6	0.4	0.3	0.2
60	13.1	5.3	2.8	1.8	1.2	0.9	0.4
80		11.5	6.1	3.8	2.6	1.9	0.9
100		20.8	11.2	6.9	4.8	3.4	1.6
120			18.3	11.3	7.8	5.6	2.7
140				17.2	11.8	8.5	4.1
160					17	12.4	5.9
180						16.9	8.1
200							10.9
220							14.1
240							17.9

THICK-WALLED PC FLAT DRIPLINE

AmnonDrip 17mm - W.T 0.9-1.2mm



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

AmnonDrip-17mm 0.5 l/h W.T 0.9-1.2 mm ID 14.4								
Dripper spacing (cm)								
Lateral length(m)	20	30	40	50	60	70	100	
40	0.2	0.1						
60	0.6	0.3	0.1	0.1	0.1			
80	1.4	0.5	0.3	0.2	0.1	0.1		
100	2.5	1	0.5	0.3	0.2	0.2	0.1	
120	4	1.6	0.8	0.5	0.4	0.3	0.1	
140	6	2.4	1.3	0.8	0.5	0.4	0.2	
160	8.5	3.5	1.8	1.1	0.8	0.6	0.3	
180	11.6	4.7	2.5	1.6	1.1	0.8	0.4	
200	15.4	6.3	3.3	2.1	1.4	1	0.5	
220	19.8	8.1	4.3	2.7	1.8	1.3	0.6	
240		10.2	5.5	3.4	2.3	1.7	0.8	
260		12.6	6.8	4.2	2.9	2.1	1	
280		15.4	8.3	5.1	3.5	2.5	1.2	
300		18.5	10	6.2	4.2	3.1	1.5	
320			11.9	7.4	5	3.7	1.8	
340			14	8.7	5.9	4.3	2.1	
360			16.3	10.2	6.9	5	2.4	
380			18.9	11.8	8.1	5.8	2.8	
400				13.5	9.2	6.7	3.3	
420				15.4	10.6	7.7	3.7	
440				17.5	12	8.7	4.2	
460				19.8	13.5	9.9	4.8	
480					15.2	11.1	5.4	
500					17	12.4	6	

AmnonDrip 17, 1.1l/h, W.T 0.9-1.2mm, ID 14.4								
Dripper spacing (cm)								
Lateral length(m)	20	30	40	50	60	70	100	
40	0.7	0.3	0.1	0.1	0.1			
60	2	0.8	0.4	0.3	0.2	0.1	0.1	
80	4.3	1.7	0.9	0.6	0.4	0.3	0.1	
100	7.8	3.2	1.7	1	0.7	0.5	0.2	
120	12.7	5.2	2.7	1.7	1.2	0.8	0.4	
140	19.1	7.8	4.2	2.6	1.8	1.3	0.6	
160		11.2	6	3.7	2.5	1.8	0.9	
180		15.3	8.2	5.1	3.5	2.5	1.2	
200		20.4	11	6.8	4.7	3.4	1.6	
220			14.2	8.8	6	4.4	2.1	
240			18	11.2	7.7	5.6	2.7	
260			22.4	14	9.6	7	3.4	
280				17.1	11.7	8.5	4.1	
300				20.7	14.2	10.3	5	
320				24.6	16.9	12.3	6	
340					20	14.5	7.1	
360					23.3	17	8.3	
380						19.7	9.6	
400						22.8	11.1	
420							12.7	
440							14.4	
460							16.3	
480							18.4	
500							20.6	

AmnonDrip 17, 1.6l/h, W.T 0.9-1.2mm, ID 14.4								
Dripper spacing (cm)								
Lateral length(m)	20	30	40	50	60	70	100	
40	1.3	0.5	0.3	0.2	0.1	0.1		
60	3.7	1.5	0.8	0.5	0.3	0.2	0.1	
80	8	3.3	1.7	1.1	0.7	0.5	0.3	
100	14.6	6	3.2	2	1.3	1	0.5	
120	23.7	9.8	5.2	3.2	2.2	1.6	0.8	
140		14.8	7.9	4.9	3.4	2.4	1.2	
160		21.2	11.4	7.1	4.9	3.5	1.7	
180			15.7	9.8	6.7	4.9	2.4	
200			20.9	13.1	9	6	3.2	
220				17	11.6	8.5	4.1	
240				21.5	14.8	10.7	5.3	
260					18.5	13.4	6.6	
280					22.6	16.5	8	
300						19.9	9.7	
320						23.9	11.6	
340							13.8	
360							16.1	
380							18.7	
400							21.6	
420							24.7	

AmnonDrip 17, 2.0l/h, W.T 0.9-1.2mm, ID 14.4								
Dripper spacing (cm)								
Lateral length(m)	20	30	40	50	60	70	100	
40	1.8	0.8	0.4	0.3	0.2	0.2	0.1	
60	5.2	2.1	1.2	0.7	0.5	0.4	0.2	
80	11.1	4.6	2.5	1.6	1.1	0.8	0.4	
100	20.2	8.5	4.6	2.9	2	1.5	0.7	
120	25.5	13.8	7.5	4.7	3.2	2.4	1.2	
140		20.9	11.4	7.1	4.9	3.6	1.8	
160		25.6	16.3	10.2	7.1	5.2	2.5	
180			22.5	14.1	9.8	7.1	3.5	
200			25.7	18.8	13	9.5	4.6	
220				24.5	17	12.3	6	
240					21.5	15.7	7.7	
260						19.7	9.6	
280						24	11.7	
300							14.2	
320							17	
340							20.1	
360							23.6	

AmnonDrip 17, 2.2l/h, W.T 0.9-1.2mm, ID 14.4								
Dripper spacing (cm)								
Lateral length(m)	20	30	40	50	60	70	100	
40	2.2	0.9	0.5	0.3	0.2	0.1	0.1	
60	6.3	2.6	1.4	0.9	0.6	0.4	0.2	
80	13.7	5.6	3	1.9	1.3	0.9	0.5	
100	24.9	10.3	5.5	3.4	2.3	1.7	0.8	
120		16.8	9	5.6	3.9	2.8	1.4	
140		25.4	13.7	8	5.9	4.3	2.1	
160			19.7	12.4	8.5	6.2	3	
180				17.1	11.8	8.6	4.2	
200				22.8	15.7	11.4	5.6	
220					20.4	14.9	7.3	
240						18.8	9.3	
260						23.6	11.6	
280							14.2	
300							17.2	
320							20.5	
340							24.3	

AmnonDrip 17mm, 3.8 l/h, W.T 0.9-1.2mm, ID 14.4								
Dripper spacing (cm)								
Lateral length(m)	20	30	40	50	60	70	100	
20	1	0.4	0.2	0.1	0.1	0.1		
40	6.5	2.5	1.3	0.7	0.5	0.4	0.2	
60	19.2	7.4	3.8	2.2	1.5	1	0.5	
80		15.8	8.1	4.8	3.2	2.3	1.1	
100			14.7	8.8	5.9	4.2	1.9	
120			24.1	14.5	9.8	6.9	3.2	
140				22.1	14.8	10.4	4.9	
160					21.2	15.1	7	
180						20.9	9.7	
200							12.9	
220							16.8	
240							21.3	

THICK-WALLED PC FLAT DRIPLINE

AmnonDrip 20mm



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

AmnonDrip-20mm 0.5 l/h W.T 1.0-1.2 mm ID 17.7								AmnonDrip 20, 1.1l/h, W.T 1.0-1.2mm, ID 17.7								AmnonDrip 20, 1.6l/h, W.T 1.0-1.2mm, ID 17.7								AmnonDrip 20, 2.0l/h, W.T 1.0-1.2mm, ID 17.7							
Dripper spacing (cm)								Dripper spacing (cm)								Dripper spacing (cm)								Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100	Lateral length(m)	20	30	40	50	60	70	100	Lateral length(m)	20	30	40	50	60	70	100	Lateral length(m)	20	30	40	50	60	70	100
40	0.2	0.1	0.1					40	0.5	0.2	0.1	0.1	0.1			40	0.9	0.4	0.2	0.1	0.1	0.1		40	1.1	0.5	0.3	0.2	0.1	0.1	0.1
60	0.6	0.3	0.1	0.1	0.1			60	1.3	0.6	0.3	0.2	0.1	0.1	0.1	60	2.1	1	0.5	0.3	0.2	0.2	0.1	60	2.8	1.3	0.7	0.5	0.4	0.3	0.1
80	1.1	0.5	0.3	0.2	0.1	0.1		80	2.6	1.1	0.6	0.4	0.3	0.2	0.1	80	4.1	1.8	1	0.7	0.5	0.3	0.2	80	5.5	2.5	1.4	0.9	0.7	0.5	0.3
100	1.8	0.8	0.4	0.3	0.2	0.1	0.1	100	4.3	1.9	1.1	0.7	0.5	0.3	0.2	100	6.9	3.1	1.7	1.1	0.8	0.6	0.3	100	9.2	4.2	2.4	1.5	1.1	0.8	0.4
120	2.7	1.2	0.7	0.4	0.3	0.2	0.1	120	6.5	2.9	1.6	1	0.7	0.5	0.3	120	10.7	4.8	2.7	1.7	1.2	0.9	0.4	120	14.4	6.4	3.7	2.4	1.7	1.2	0.6
140	3.8	1.7	0.9	0.6	0.4	0.3	0.1	140	9.2	4.1	2.3	1.5	1	0.8	0.4	140	15.4	6.9	3.9	2.5	1.8	1.3	0.7	140	20.7	9.3	5.3	3.4	2.4	1.8	0.9
160	5.1	2.3	1.3	0.8	0.6	0.4	0.2	160	12.7	5.6	3.2	2	1.4	1.1	0.5	160	21.2	9.5	5.4	3.5	2.4	1.8	0.9	160	25.7	12.9	7.4	4.8	3.4	2.5	1.3
180	6.7	2.9	1.7	1.1	0.7	0.5	0.3	180	16.7	7.4	4.2	2.7	1.9	1.4	0.7	180	12.6	7.2	4.6	3.3	2.4	1.2	180	17.3	9.9	6.4	4.5	3.3	1.7		
200	8.5	3.8	2.1	1.3	0.9	0.7	0.3	200	21.4	9.6	5.4	3.5	2.4	1.8	0.9	200	16.3	9.3	6	4.2	3.1	1.6	200	22.5	12.8	8.3	5.8	4.4	2.2		
220	10.6	4.7	2.6	1.7	1.2	0.9	0.4	220	12.1	6.8	4.4	3.1	2.3	1.1		220	20.7	11.7	7.6	5.3	4	2	220	25.6	16.3	10.5	7.5	5.5	2.8		
240	12.9	5.7	3.2	2.1	1.4	1.1	0.5	240	14.8	8.4	5.4	3.8	2.8	1.4		240	25.6	14.6	9.4	6.6	4.9	2.5	240	20.3	13.1	9.3	6.9	3.5			
260	15.6	6.9	3.9	2.5	1.7	1.3	0.6	260	18	10.2	6.6	4.6	3.4	1.7		260	17.8	11	8.1	6	3		260	24.8	16.1	11.3	8.5	3.9			
280	18.5	8.2	4.6	3	2.1	1.5	0.8	280	21.6	12.3	7.9	5.5	4.1	2.1		280	21.4	13.9	9.7	7.3	3.6		280	19.4	13.7	10.2	5.1				
300	9.6	5.4	3.5	2.4	1.8	0.9		300	25.6	14.5	9.4	6.6	4.9	2.4		300	25.5	16.5	11.6	8.6	4.3		300	23.2	16.4	12.2	6.1				
320	11.2	6.4	4.1	2.8	2.1	1		320	17.1	11	7.7	5.7	2.9		320	19.4	13.7	10.2	5.1			320	25.4	19.3	14.4	7.2					
340	13	7.3	4.7	3.3	2.4	1.2		340	19.9	12.8	9	6.7	3.3		340	22.7	16	11.9	6			340	22.4	16.8	12.2	8.5					
360	14.9	8.4	5.4	3.8	2.8	1.4		360	22.9	14.8	10.4	7.7	3.9		360	18.5	13.8	6.9				360	25.2	19.5	9.8						
380	16.9	9.6	6.1	4.3	3.2	1.6		380	16.9	11.9	8.8	4.4			380	21.3	15.8	8				380	22.5	11.3							
400	19.1	10.8	6.9	4.9	3.6	1.8		400	19.3	13.5	10	5			400	24.2	18	9.1				400	25.6	13							
420		12.2	7.8	5.5	4	2		420	21.8	15.3	11.4	5.7			420	20.5	10.3					420		14.7							
440		13.6	8.8	6.1	4.5	2.3		440	24.5	17.2	12.8	6.4			440	23.1	11.7					440		16.6							
460		15.2	9.8	6.8	5	2.5		460	19.3	14.3	7.2				460	25.9	13.1					460		18.7							
480		16.8	10.8	7.6	5.6	2.8		480	21.5	15.9	8				480		14.7					480		21							
500		18.6	12	8.4	6.2	3.1		500	23.9	17.7	8.9				500		16.3					500		23.3							

AmnonDrip 20, 2.2l/h, W.T 1.0-1.2mm, ID 17.7								AmnonDrip 20, 3.8 l/h, W.T 1.0-1.2mm, ID 17.7							
Dripper spacing (cm)								Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100	Lateral length(m)	20	30	40	50	60	70	100
40	1.3	0.6	0.3	0.2	0.1	0.1	0.1	40	0.5	0.2	0.1	0.1	0.1		
60	3.2	1.5	0.8	0.5	0.4	0.3	0.1	60	2.6	1.2	0.7	0.4	0.3	0.2	0.1
80	6.3	2.8	1.6	1	0.7	0.5	0.3	80	6.8	3.1	1.7	1.1	0.8	0.6	0.3
100	10.7	4.8	2.7	1.7	1.2	0.9	0.5	100	13.5	6.1	3.5	2.2	1.6	1.2	0.6
120	16.6	7.5	4.2	2.7	1.9	1.4	0.7	120	23.3	10.6	6	3.9	2.7	2	1
140	24	10.8	6.1	4	2.8	2.1	1	140	16.6	9.4	6.1	4.4	3.2	1.6	
160	15	8.5	5.5	3.9	2.9	1.5		160	24.4	13.9	9.1	6.4	4.7	2.4	
180	20.1	11.4	7.4	5.2	3.9	2		180	19.6	12.7	9	6.7	3.4		
200		14.9	9.6	6.8	5	2.5		200	26.5	17.2	12.2	9.1	4.6		
220		18.9	12.3	8.6	6.4	3.2		220	22.6	16	11.9	6.1			
240		23.6	15.3	10.8	8	4.1		240		20.5	15.3	7.8			
260		18.8	13.2	9.8	5			260		25.9	19.2	9.8			
280		22.7	16	11.9	6			280			23.7	12.1			
300		19.2	14.2	7.2				300				14.7			
320		22.6	16.8	8.5				320				21			
340			19.7	10				340				24.7			
360			22.9	11.6											
380				13.4											
400				15.3											
420				17.4											
440				19.7											
460				22.1											
480				24.8											

THICK-WALLED PC FLAT DRIPLINE

AmnonDrip 23mm

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

Amnon-23mm ,0.5 l/h W.T 1.0 mm ID 20.8								AmnonDrip 23, 1.1 l/h, W.T 1.00mm, ID 20.8								AmnonDrip 23 1.6l/h, W.T 1.00mm, ID 20.8								AmnonDrip 23, 2.0l/h, W.T 1.00mm, ID 20.8							
Dripper spacing (cm)								Dripper spacing (cm)								Dripper spacing (cm)								Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100	Lateral length(m)	20	30	40	50	60	70	100	Lateral length(m)	20	30	40	50	60	70	100	Lateral length(m)	20	30	40	50	60	70	100
40	0.1							40	0.2	0.1						40	0.2	0.1	0.1					40	0.3	0.2	0.1	0.1	0.1		
60	0.2	0.1						60	0.4	0.2	0.1	0.1				60	0.6	0.3	0.2	0.1	0.1	0.1		60	0.8	0.4	0.3	0.2	0.1	0.1	
80	0.3	0.1	0.1	0.1				80	0.7	0.3	0.2	0.1	0.1	0.1		80	1.2	0.5	0.3	0.2	0.1	0.1	0.1	80	1.6	0.8	0.5	0.3	0.2	0.2	0.1
100	0.5	0.2	0.1	0.1	0.1			100	1.2	0.6	0.3	0.2	0.1	0.1	0.1	100	2	0.9	0.5	0.4	0.3	0.2	0.1	100	2.8	1.3	0.8	0.5	0.4	0.3	0.2
120	0.7	0.3	0.2	0.1	0.1	0.1		120	1.8	0.9	0.5	0.3	0.2	0.2	0.1	120	3.1	1.5	0.8	0.6	0.4	0.3	0.2	120	4.3	2	1.2	0.8	0.6	0.5	0.3
140	1	0.5	0.3	0.2	0.1	0.1		140	2.7	1.2	0.7	0.5	0.3	0.2	0.1	140	4.6	2.1	1.2	0.8	0.6	0.4	0.2	140	6.4	3	1.8	1.2	0.8	0.7	0.4
160	1.4	0.7	0.4	0.2	0.2	0.1	0.1	160	3.7	1.7	1	0.7	0.5	0.3	0.2	160	6.4	3	1.7	1.1	0.8	0.6	0.3	160	9	4.2	2.5	1.6	1.2	0.9	0.5
180	1.9	0.9	0.5	0.3	0.2	0.2	0.1	180	4.9	2.3	1.3	0.9	0.6	0.5	0.2	180	8.7	4	2.3	1.5	1.1	0.8	0.4	180	12.1	5.7	3.3	2.2	1.6	1.2	0.6
200	2.4	1.1	0.6	0.4	0.3	0.2	0.1	200	6.4	3	1.7	1.1	0.8	0.6	0.3	200	11.3	5.3	3.1	2	1.4	1.1	0.6	200	15.9	7.5	4.4	2.9	2.1	1.6	0.8
220	3	1.4	0.8	0.5	0.4	0.3	0.1	220	8.1	3.8	2.2	1.4	1	0.8	0.4	220	14.4	6.7	3.9	2.6	1.8	1.4	0.7	220	20.4	9.5	5.6	3.7	2.7	2	1
240	3.7	1.7	1	0.6	0.5	0.3	0.2	240	10.1	4.7	2.7	1.8	1.3	1	0.5	240	18.1	8.4	4.9	3.2	2.3	1.7	0.9	240	25.3	12	7	4.6	3.3	2.5	1.3
260	4.5	2.1	1.2	0.8	0.6	0.4	0.2	260	12.3	5.7	3.3	2.2	1.6	1.2	0.6	260	22.2	10.4	6	4	2.8	2.1	1.1	260		14.8	8.7	5.7	4.1	3.1	1.6
280	5.3	2.5	1.4	0.9	0.7	0.5	0.3	280	14.9	7	4	2.7	1.9	1.4	0.7	280		12.6	7.3	4.8	3.4	2.6	1.3	280		18	10.6	7	5	3.7	1.9
300	6.3	2.9	1.7	1.1	0.8	0.6	0.3	300	17.8	8.3	4.8	3.2	2.3	1.7	0.9	300		15.1	8.8	5.8	4.1	3.1	1.6	300		21.7	12.7	8.4	6	4.5	2.3
320	7.4	3.4	2	1.3	0.9	0.7	0.4	320	21	9.8	5.7	3.7	2.7	2	1	320		17.9	10.5	6.9	4.9	3.7	1.9	320		25.5	15.5	9.9	7.1	5.3	2.8
340	8.5	4	2.3	1.5	1.1	0.8	0.4	340	24.5	11.5	6.7	4.4	3.1	2.3	1.2	340		21	12.3	8.1	5.8	4.3	2.2	340			17.7	11.7	8.3	6.3	3.2
360	9.8	4.6	2.7	1.7	1.2	0.9	0.5	360		13.3	7.8	5.1	3.6	2.7	1.4	360		24.4	14.3	9.4	6.7	5	2.6	360			20.7	13.6	9.7	7.3	3.8
380	11.2	5.2	3	2	1.4	1.1	0.5	380		15.3	8.9	5.9	4.2	3.1	1.6	380			16.5	10.9	7.7	5.8	3	380			23.3	15.8	11.2	8.5	4.4
400	12.8	5.9	3.5	2.3	1.6	1.2	0.6	400		17.5	10.2	6.7	4.8	3.6	1.8	400			18.9	12.5	8.9	6.7	3.4	400			25.4	18.1	12.9	9.7	5
420	14.4	6.7	3.9	2.6	1.8	1.4	0.7	420		19.8	11.6	7.6	5.4	4.1	2.1	420			21.6	14.2	10.1	7.6	3.9	420				20.7	14.8	11.1	5.7
440	16.2	7.5	4.4	2.9	2	1.5	0.8	440		22.4	13.1	8.6	6.1	4.6	2.4	440			24.5	16.1	11.5	8.6	4.4	440				23.4	16.7	12.6	6.5
460	18.1	8.4	4.9	3.2	2.3	1.7	0.9	460		25.22	14.7	9.7	6.9	5.2	2.7	460				18.1	12.9	9.7	5	460				25.1	18.8	14.2	7.3
480	9.4	5.5	3.6	2.5	1.9	1		480		16.5	10.8	7.7	5.8	3		480				20.3	14.5	10.9	5.6	480				21.2	15.9	8.2	
500	10.4	6.1	4	2.8	2.1	1.1		500		18.4	12.1	8.6	6.5	3.3		500				22.7	16.2	12.2	6.3	500				23.7	17.8	9.2	



AmnonDrip 23 2.2l/h, W.T 1.00mm, ID 20.8								AmnonDrip 23 3.8l/h, W.T 1.00mm, ID 20.8							
Dripper spacing (cm)								Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100	Lateral length(m)	20	30	40	50	60	70	100
40	0.4	0.2	0.1	0.1				40	0.2	0.1					
60	0.9	0.4	0.3	0.2	0.1	0.1		60	2	1	0.6	0.4	0.3	0.2	0.1
80	1.8	0.9	0.5	0.3	0.2	0.2	0.1	80	4.2	2	1.1	0.7	0.5	0.4	0.2
100	3.2	1.5	0.9	0.6	0.4	0.3	0.2	100	7.4	3.5	2	1.3	0.9	0.7	0.4
120	5	2.4	1.4	0.9	0.6	0.5	0.3	120	11.9	5.6	3.2	2.1	1.5	1.2	0.6
140	7.4	3.5	2	1.3	1	0.7	0.4	140	17.8	8.4	4.9	3.2	2.3	1.7	0.9
160	10.5	4.9	2.9	1.9	1.3	1	0.5	160	25.5	11.9	7	4.6	3.3	2.5	1.3
180	14.2	6.6	3.9	2.5	1.8	1.4	0.7	180		16.3	9.5	6.3	4.5	3.4	1.8
200	18.7	8.8	5.1	3.4	2.4	1.8	0.9	200		21.7	12.6	8.3	6	4.5	2.3
220	24	11.2	6.5	4.3	3.1	2.3	1.2	220			16.4	10.8	7.7	5.8	3
240		14.1	8.2	5.4	3.9	2.9	1.5	240			20.7	13.7	9.8	7.3	3.8
260		17.5	10.2	6.7	4.8	3.6	1.9	260				17	12.1	9.1	4.7
280		21.3	12.4	8.2	5.8	4.4	2.3	280				20.8	14.8	11.2	5.8
300		25.6	14.9	9.8	7	5.3	2.7	300				25.1	18	13.5	7
320			17.8	11.7	8.4	6.3	3.2								
340			21	13.8	9.8	7.4	3.8								
360			24.5	16.1	11.4	8.6	4.5								
380				18.6	13.3	9.9	5.2								
400				21.4	15.2	11.5	5.9								
420				24.4	17.4	13.1	6.8								
440					19.8	14.8	7.7								
460					22.3	16.8	8.7								
480					25	18.8	9.7								
500						21.1	10.9								

THICK-WALLED PC FLAT DRIPLINE

TopDrip HD PC & PC AS



Innovative, cost effective, heavy duty pressure-compensating (PC) and anti-siphon (PC AS) thick-walled dripline models based on the cascade labyrinth

APPLICATIONS

- Row crops and vegetables
- For orchards and other multi-seasonal applications
- 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
- 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

TECHNICAL DATA

- Flow rate: 0.6, 1.0, 1.6, 2.0, 2.2, 3.5 l/h
- Pressure regulating range: 0.4-4.0 bar
- Operating pressure: 0.4-4.0 bar, according to wall thickness
- Wall thickness: 0.9-1.2 mm
- Recommended filtration: 130 micron (120 mesh)

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

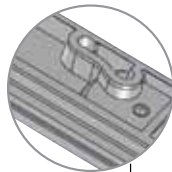


3 PARTS-UPPER VIEW

Shallow profile reduces head losses
Raised water inlet reduces clogging

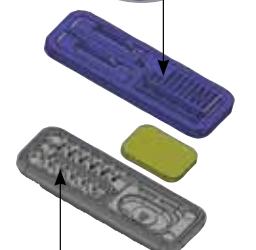
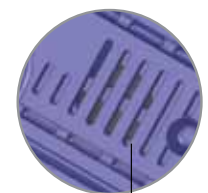


Weir design prevents root intrusion and sand suction



3 PARTS-BOTTOM VIEW

Multi-channel: three-dimensional water inlets and eleven independent entrances



Cascade labyrinth, wide water passages and strong self-cleaning operation

THICK-WALLED PC FLAT DRIPLINE

TopDrip HD PC & PC AS

TECHNICAL DATA

Nominal diameter (mm)	Wall thickness		OD (mm)	ID (mm)	Maximum Pressure (bar)	KD	Connector type
	(mm)	(mil)					Dentados
16	0.90	35	15.70	13.9	4.0	0.575	●
	1.00	39	15.90	13.9	4.0	0.575	●
	1.15	45	16.20	13.9	4.0	0.575	●
17	0.90	35	16.20	14.4	4.0	0.48	●
	1.00	39	16.40	14.4	4.0	0.48	●
	1.20	47	17.00	14.4	4.0	0.48	●
20	1.00	39	19.70	17.70	4.0	0.35	●
	1.20	47	20.10	17.70	4.0	0.35	●



TOPDRIP PACKAGING AND SHIPPING

Carton spools

Nominal diameter (mm)	Wall thickness (mm)	Standard coil length (m)	Coils per 20 ft. container	Coils per 40 ft. container	Coils per 40 ft. HC container
16	0.90	400	320	640	720
	1.00	400	320	640	720
17	0.63	600	320	640	720
	0.90	400	320	640	720
	1.00	400	320	640	720
20	0.90	300	320	640	720
	1.00	300	320	640	720



Coils

Nominal diameter (mm)	Wall thickness (mm)	Standard coil length (m)	Coils per 20 ft. container	Coils per 40 ft. container	Coils per 40 ft. HC container
16	0.90	500	150	320	360
	1.00	500	150	320	360
	1.15	500	150	320	360
17	0.90	500	150	320	360
	1.00	500	150	320	360
	1.20	500	150	320	360
20	1.00	300	150	345	365
	1.20	300	150	345	365



* Dropper spacing can affect coil length.

THICK-WALLED PC FLAT DRIPLINE

TopDrip HD PC & PC AS

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

TopDrip HD 17mm 0.6l/h W.T 0.9-1.2 ID 14.4										
Lateral length(m)	Dripper spacing (cm)									
	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1
20										
40	0.3	0.1	0.1							
60	0.9	0.5	0.2	0.1	0.1					
80	2.1	1	0.4	0.2	0.1	0.1	0.1	0.1		
100	3.9	2	0.8	0.4	0.3	0.2	0.1	0.1	0.1	0.1
120	6.7	3.3	1.3	0.7	0.4	0.3	0.2	0.2	0.1	0.1
140	10.4	5.2	2	1.1	0.7	0.5	0.3	0.3	0.2	0.2
160	15.3	7.7	3	1.6	1	0.7	0.4	0.4	0.3	0.2
180		10.8	4.2	2.2	1.4	0.9	0.6	0.5	0.4	0.3
200		14.6	5.7	3	1.9	1.3	0.8	0.7	0.6	0.4
220		19.2	7.5	3.9	2.5	1.7	1.1	0.9	0.7	0.6
240			9.6	5.1	3.1	2.1	1.3	1.2	0.9	0.7
260			12.1	6.4	4	2.7	1.7	1.5	1.2	0.9
280			15	7.9	4.9	3.3	2.1	1.8	1.4	1.2
300			18.2	9.6	6	4.1	2.5	2.2	1.8	1.4
320				11.6	7.2	4.9	3.1	2.7	2.1	1.7
340				13.8	8.5	5.8	3.6	3.2	2.5	2
360				16.3	10	6.8	4.3	3.7	3	2.4
380				19	11.7	8	5	4.4	3.5	2.8
400					13.6	9.2	5.8	5.1	4	3.2
420					15.6	10.6	6.6	5.8	4.6	3.7
440					17.9	12.1	7.6	6.7	5.2	4.2
460						13.7	8.7	7.6	6	4.8
480						15.5	9.7	8.5	6.7	5.4
500						17.5	11	9.6	7.6	6.1

TopDrip 17, 1.0l/h, W.T 0.9-1.2mm, ID 14.4										
Lateral length(m)	Dripper spacing									
	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1
20	0.1									
40	0.7	0.4	0.1	0.1						
60	2.5	1.2	0.5	0.2	0.1	0.1	0.1	0.1		
80	5.7	2.8	1	0.5	0.3	0.2	0.1	0.1	0.1	0.1
100	11.1	5.3	2	1	0.6	0.4	0.3	0.2	0.2	0.1
120	18.9	9.1	3.4	1.7	1.1	0.7	0.4	0.4	0.3	0.2
140	29.8	14.3	5.3	2.7	1.6	1.1	0.7	0.6	0.5	0.4
160		21.1	7.9	4	2.4	1.6	1	0.9	0.7	0.6
180		29.9	11.1	5.6	3.4	2.3	1.4	1.2	1	0.8
200			15.1	7.7	4.6	3.1	1.9	1.7	1.3	1.1
220			19.9	10.1	6.1	4.1	2.5	2.2	1.7	1.4
240			25.6	13	7.9	5.3	3.3	2.8	2.2	1.8
260				16.5	9.9	6.6	4.1	3.6	2.8	2.2
280				20.4	12.3	8.2	5.1	4.4	3.5	2.8
300				25	15	10	6.2	5.4	4.2	3.4
320					18.1	12.1	7.5	6.5	5.1	4.1
340					21.6	14.4	8.9	7.7	6	4.9
360					25.5	17	10.5	9.1	7.1	5.7
380						19.9	12.2	10.7	8.3	6.7
400						23.1	14.2	12.4	9.7	7.7
420						26.5	16.3	14.2	11.1	8.9
440							18.7	16.3	12.7	10.2
460							21.3	18.5	14.4	11.6
480							24	20.9	16.3	13.1
500							27	23.5	18.4	14.7

TopDrip 17, 1.6l/h, W.T 0.9-1.2mm, ID 14.4										
Lateral length(m)	Dripper spacing									
	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1
20	0.2	0.1								
40	1.9	0.9	0.3	0.2	0.1	0.1				
60	6.1	3	1.1	0.6	0.3	0.2	0.1	0.1	0.1	0.1
80	14.3	6.9	2.6	1.3	0.8	0.5	0.3	0.3	0.2	0.2
100	27.6	13.2	4.9	2.5	1.5	1	0.6	0.6	0.4	0.3
120		22.6	8.4	4.3	2.6	1.7	1.1	0.9	0.7	0.6
140			13.1	6.7	4	2.7	1.7	1.5	1.1	0.9
160			19.4	9.8	5.9	4	2.5	2.1	1.7	1.3
180			27.3	13.9	8.3	5.6	3.4	3	2.4	1.9
200				18.8	11.3	7.6	4.7	4.1	3.2	2.6
220				24.9	14.9	10	6.2	5.4	4.2	3.4
240					19.2	12.8	7.9	6.9	5.4	4.3
260					24.2	16.2	10	8.7	6.8	5.4
280					20	12.3	10.7	8.4	6.7	
300					24.4	15	13.1	10.2	8.2	
320					29.5	18.1	15.8	12.3	9.9	
340						21.6	18.8	14.7	11.7	
360						25.5	22.2	17.3	13.8	
380							25.9	20.2	16.2	
400								23.4	18.8	
420								26.9	21.6	
440									24.7	
460									28	
480										
500										

TopDrip 17, 2.0l/h, W.T 0.9-1.2mm, ID 14.4										
Lateral length(m)	Dripper spacing (cm)									
	0.15	20	30	40	50	60	75	80	90	100
20	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40	2.6	1.3	0.6	0.3	0.2	0.2	0.1	0.1	0.1	0.1
60	8.4	4.2	1.7	0.9	0.6	0.4	0.3	0.3	0.2	0.2
80	19.4	9.7	3.9	2.1	1.3	0.9	0.6	0.5	0.4	0.3
100		18.6	7.3	3.9	2.4	1.7	1.1	0.8	0.7	0.6
120			12.3	6.5	4	2.8	1.8	1.6	1.2	1
140			19.3	10.2	6.3	4.3	2.7	2.4	1.9	1.5
160				14.9	9.2	6.3	3.9	3.5	2.8	2.2
180				20.9	12.9	8.8	5.5	4.9	3.8	3.1
200					17.4	11.9	7.5	6.6	5.2	4.2
220					22.9	15.7	9.8	8.6	6.8	5.5
240						20.1	12.6	11	8.7	7
260						25.2	15.9	13.9	10.9	8.8
280							19.5	17.1	13.5	10.9
300							23.8	20.9	16.5	13.2
320								25.1	19.8	15.9
340									23.5	18.9
360										22.3

TopDrip 17, 2.2l/h, W.T 0.9-1.2mm, ID 14.4										
Lateral length(m)	Dripper spacing (cm)									
	0.15	20	30	40	50	60	75	80	90	100
20	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40	3.1	1.6	0.7	0.4	0.2	0.2	0.1	0.1	0.1	0.1
60	10.1	5	2	1.1	0.7	0.5	0.3	0.3	0.2	0.2
80	23.3	11.6	4.6	2.5	1.5	1.1	0.7	0.6	0.5	0.4
100		22.2	8.8	4.6	2.9	2	1.3	1.1	0.8	0.7
120			14.7	7.8	4.8	3.3	2.1	1.8	1.5	1.2
140			23	12.1	7.5	5.1	3.3	2.8	2.3	1.8
160				17.8	11	7.5	4.7	4.1	3.3	2.6
180				25	15.4	10.5	6.6	5.8	4.6	3.7
200					20.8	14.2	9	7.8	6.2	5
220						18.7	11.7	10.3	8.1	6.5
240						24	15	13.2	10.4	8.4
260							19	16.5	13	10.5
280							23.3	20.5	16.1	13
300								24.9	19.7	15.8
320									23.6	19
340										22.6

TopDrip HD 17mm 3.5l/h W.T 0.9-1.2 ID 14.4										
Lateral length(m)	Dripper spacing (cm)									
	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1
20	1.1	0.5	0.2	0.1	0.1	0.1				
40	7.8	3.9	1.6	0.8	0.5	0.3	0.2	0.2	0.2	0.1
60		12.6	5	2.6	1.6	1.1	0.7	0.6	0.5	0.4
80			11.2	5.9	3.7	2.5	1.6	1.4	1.1	0.9
100				11.2	7	4.7	3	2.6	2.1	1.6
120				18.9	11.8	8	5	4.4	3.5	2.8
140					18.2	12.4	7.7	6.9	5.3	4.3
160						18	11.4	9.9	7.8	6.3
180							15.8	13.8	10.9	8.8
200								18.7	14.8	11.9
220									19.4	15.6
240										20

THICK-WALLED PC FLAT DRIPLINE

TopDripHD PC & PC AS

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

TopDrip HD 20mm 0.6l/h W.T 0.9-1.2 ID 17.7										
Lateral length(m)	Dripper spacing (cm)									
	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1
20										
40	0.2	0.1								
60	0.4	0.2	0.1	0.1						
80	0.9	0.5	0.2	0.1	0.1					
100	1.6	0.9	0.4	0.2	0.1	0.1				
120	2.6	1.4	0.6	0.3	0.2	0.1	0.1	0.1	0.1	
140	3.9	2.1	0.9	0.5	0.3	0.2	0.1	0.1	0.1	0.1
160	5.5	2.9	1.2	0.7	0.4	0.3	0.2	0.2	0.1	0.1
180	7.5	4	1.7	0.9	0.6	0.4	0.3	0.2	0.2	0.1
200	9.8	5.3	2.2	1.2	0.8	0.5	0.3	0.3	0.2	0.2
220	12.7	6.8	2.9	1.6	1	0.7	0.4	0.4	0.3	0.2
240	15.9	8.6	3.7	2	1.3	0.9	0.6	0.5	0.4	0.3
260	19.7	10.7	4.5	2.5	1.6	1.1	0.7	0.6	0.5	0.4
280		13	5.5	3	1.9	1.3	0.9	0.7	0.6	0.5
300		15.6	6.7	3.7	2.3	1.6	1	0.9	0.7	0.6
320		18.5	7.9	4.4	2.8	1.9	1.2	1.1	0.9	0.7
340			9.3	5.2	3.3	2.3	1.4	1.3	1	0.8
360			10.9	6	3.8	2.6	1.7	1.5	1.2	1
380			12.6	7	4.4	3.1	2	1.7	1.4	1.1
400			14.5	8	5.1	3.5	2.3	2	1.6	1.3
420			16.5	9.2	5.8	4	2.6	2.3	1.8	1.5
440			18.7	10.4	6.6	4.6	2.9	2.6	2	1.7
460				11.8	7.5	5.2	3.3	2.9	2.3	1.9
480				13.2	8.4	5.8	3.7	3.3	2.6	2.1
500				14.8	9.4	6.5	4.2	3.7	2.9	2.4

TopDrip 20, 1.0l/h, W.T 0.9-1.2mm, ID 17.7										
Lateral length(m)	Dripper spacing									
	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1
20										
40	0.3	0.1								
60	0.8	0.4	0.2	0.1	0.1					
80	1.9	0.9	0.4	0.2	0.1	0.1				
100	3.7	1.8	0.7	0.4	0.2	0.1	0.1	0.1	0.1	0.1
120	6.4	3.1	1.2	0.6	0.4	0.3	0.2	0.1	0.1	0.1
140	10	4.8	1.8	0.9	0.6	0.4	0.2	0.2	0.2	0.1
160	14.8	7.2	2.7	1.4	0.9	0.6	0.4	0.3	0.2	0.2
180	20.9	10.1	3.8	2	1.2	0.8	0.5	0.4	0.3	0.3
200	28.6	13.8	5.2	2.7	1.6	1.1	0.7	0.6	0.5	0.4
220		18.2	6.8	3.5	2.1	1.4	0.9	0.8	0.6	0.5
240			23.5	8.8	4.5	2.8	1.9	1.2	1	0.8
260			29.8	11.1	5.7	3.5	2.3	1.5	1.3	1
280				13.8	7.1	4.3	2.9	1.8	1.6	1.2
300				16.9	8.7	5.3	3.5	2.2	1.9	1.5
320				20.4	10.5	6.3	4.3	2.6	2.3	1.8
340				24.4	12.5	7.6	5.1	3.2	2.7	2.2
360				28.8	14.7	8.9	6	3.7	3.2	2.5
380					17.2	10.4	7	4.3	3.8	3
400					20	12.1	8.1	5	4.4	3.4
420					23	13.9	9.3	5.8	5.1	4
440					26.4	15.9	10.7	6.6	5.8	4.5
460						18.1	12.1	7.5	6.6	5.1
480						20.5	13.7	8.5	7.4	5.8
500						23.1	15.5	9.6	8.4	6.5

TopDrip 20, 1.6l/h, W.T 0.9-1.2mm, ID 17.7										
Lateral length(m)	Dripper spacing									
	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1
20	0.1									
40	0.6	0.3	0.1	0.1						
60	2.1	1.0	0.4	0.2	0.1	0.1	0.1	0.1		
80	4.8	2.3	0.9	0.5	0.3	0.2	0.1	0.1	0.1	0.1
100	9.3	4.5	1.7	0.9	0.5	0.4	0.2	0.2	0.2	0.1
120	15.8	7.7	2.9	1.5	0.9	0.6	0.4	0.3	0.3	0.2
140	25.0	12.0	4.5	2.3	1.4	1.0	0.6	0.5	0.4	0.3
160		17.8	6.7	3.4	2.1	1.4	0.9	0.8	0.6	0.5
180		25.1	9.4	4.8	2.9	2.0	1.2	1.1	0.8	0.7
200			12.8	6.5	4.0	2.7	1.7	1.5	1.1	0.9
220			16.9	8.6	5.2	3.5	2.2	1.9	1.5	1.2
240			21.7	11.1	6.7	4.5	2.8	2.4	1.9	1.5
260			27.4	14.0	8.5	5.7	3.5	3.1	2.4	1.9
280				17.4	10.5	7.0	4.4	3.8	3.0	2.4
300				21.3	12.8	8.6	5.3	4.7	3.6	2.9
320				25.6	15.5	10.4	6.4	5.6	4.4	3.5
340					18.4	12.4	7.7	6.7	5.2	4.2
360					21.8	14.6	9.0	7.9	6.2	4.9
380					25.5	17.0	10.5	9.2	7.2	5.8
400						19.8	12.2	10.7	8.3	6.7
420						22.7	14.1	12.3	9.6	7.7
440						26.0	16.1	14.0	10.9	8.8
460							18.3	15.9	12.5	10.0
480							20.7	18.0	14.1	11.3
500							23.3	20.3	15.8	12.7

TopDrip 20, 2.0l/h, W.T 0.9-1.2mm, ID 17.7										
Lateral length(m)	Dripper spacing (cm)									
	0.15	20	30	40	50	60	75	80	90	100
20	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40	1	0.6	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
60	2.9	1.6	0.7	0.4	0.3	0.2	0.1	0.1	0.1	0.1
80	6.2	3.4	1.5	0.8	0.5	0.4	0.3	0.2	0.2	0.2
100	11.2	6.1	2.7	1.5	1	0.7	0.5	0.4	0.3	0.3
120	18.2	9.9	4.3	2.4	1.5	1.1	0.7	0.6	0.5	0.4
140		15	6.5	3.7	2.3	1.6	1.1	1	0.8	0.6
160		21.6	9.4	5.3	3.4	2.4	1.5	1.4	1.1	0.8
180			12.9	7.2	4.6	3.3	2.1	1.9	1.5	1.2
200			17.2	9.7	6.2	4.3	2.8	2.5	2	1.6
220			22.3	12.5	8	5.6	3.6	3.2	2.6	2.1
240				15.9	10.2	7.1	4.6	4.1	3.2	2.6
260				19.8	12.7	8.9	5.8	5.1	4	3.3
280				24.3	15.6	10.9	7	6.2	4.9	4
300					18.8	13.2	8.5	7.5	6	4.9
320					22.5	15.7	10.2	9	7.2	5.8
340						18.6	12	10.6	8.5	6.9
360						21.8	14.1	12.4	9.9	8.1
380						25.3	16.4	14.5	11.6	9.4
400							18.9	16.7	13.3	10.8
420							21.7	19.1	15.2	12.4
440							24.7	21.7	17.3	14.1
460								24.6	19.7	16
480									22.1	18
500									24.5	20.2

TopDrip 20, 2.2l/h, W.T 0.9-1.2mm, ID 17.7										
Lateral length(m)	Dripper spacing (cm)									
	0.15	20	30	40	50	60	75	80	90	100
20	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40	1.2	0.6	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
60	3.6	1.8	0.8	0.5	0.3	0.2	0.2	0.2	0.1	0.1
80	7.2	3.9	1.7	1	0.6	0.5	0.3	0.3	0.2	0.2
100	13.1	7.1	3.1	1.7	1.1	0.8	0.5	0.5	0.4	0.3
120	21.3	11.6	5.1	2.8	1.8	1.3	0.8	0.7	0.6	0.5
140		17.7	7.7	4.3	2.8	1.9	1.3	1.1	0.9	0.7
160		25.4	11	6.2	4	2.8	1.8	1.6	1.3	1
180			15.2	8.5	5.5	3.8	2.5	2.2	1.7	1.4
200			20.3	11.4	7.3	5.1	3.3	2.9	2.3	1.9
220				14.8	9.5	6.7	4.3	3.8	3	2.5
240				18.8	12	8.4	5.4	4.8	3.8	3.1
260				23.4	15	10.5	6.8	6	4.8	3.9
280				18.4	12.9	8.3	7.3	5.8	4.8	
300				22.3	15.6	10.1	8.9	7.1	5.8	
320					18.6	12.1	10.6	8.5	6.9	
340					22	14.2	12.6	10	8.2	
360					25.9	16.7	14.7	11.7	9.6	
380						19.5	17.1	13.7	11.1	
400						22.4	19.8	15.8	12.8	
420						25.7	22.6	18.1	14.7	
440							25.8	20.5	16.7	
460								23.3	19	
480									21.3	
500									23.9	

TopDrip HD 20mm 3.5l/h W.T 0.9-1.2 ID 17.7										
Lateral length(m)	Dripper spacing (cm)									
	0.15	0.2	0.3	0.4	0.5	0.6	0.75	0.8	0.9	1
20	0.4	0.2	0.1	0.1						
40	2.6	1.4	0.6	0.3	0.2	0.1	0.1	0.1	0.1	0.1
60	7.5	4	1.8	1	0.6	0.4	0.3	0.2	0.2	0.2
80	16	8.7	3.8	2.1	1.4	0.9	0.6	0.5	0.4	0.3
100		15.9	7	3.9	2.5	1.7	1.1	1	0.8	0.6
120			11.4	6.4	4.1	2.9	1.8	1.6	1.3	1
140			17.3	9.7	6.3	4.4	2.8	2.5	2	1.6
160				14	9					

THICK-WALLED PRESSURE COMPENSATING DRIPPERS

NaanPC



State-of-the-art cylindrical PC (Pressure-Compensating) dripper ensures highest durability and excellent performance

APPLICATIONS

- Ideal solution for irrigation in topographically challenging terrain and where long laterals are required
- For accurate irrigation of orchards, open field crops and greenhouses

STRUCTURE AND FEATURES

- 16 mm and 20 mm polyethylene dripline with integrated pressure-compensating drippers
- Double water inlets and outlets per dripper
- New formulated silicone diaphragm ensures reliable and accurate performance with diverse water qualities, chemicals and fertilizers
- Individual double filter and flushing mechanism for maximal clog resistance and self-cleaning

16 mm



1.1 l/h



1.6 l/h



2.2 l/h



3.5 l/h

20 mm



0.95 l/h



1.6 l/h

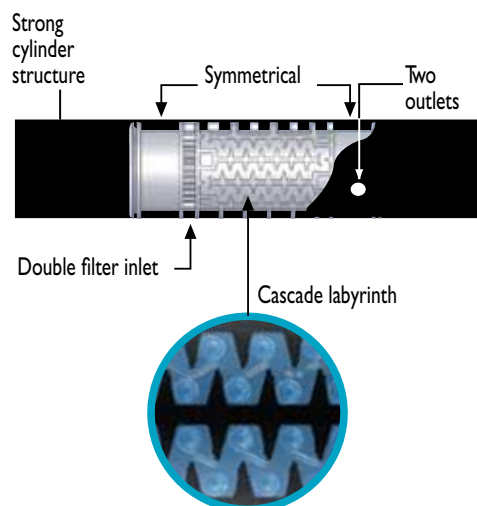


2.2 l/h



3.8 l/h

Naan PC dripper structure



THICK & MEDIUM WALLED PC CYLINDRICAL DRIPLINE

NaanPC

TECHNICAL DATA

Product name	Wall thickness (mm)	OD (mm)	ID (mm)	Nominal flow rate (l/h)	Pressure regulating range (bar)	Max pressure (bar)	KD	Connector Type
NaanPC 16/1.1	0.90	15.7	13.9	1.2	0.5-3.0	3.0	0.7	Barb 16
	1.00	15.9		1.2	0.5-3.5	3.5	0.7	
	1.15	16.2		1.1	0.5-3.5	3.5	0.7	
NaanPC 16/1.6	0.90	15.7	13.9	1.6	0.5-3.0	3.0	0.7	
	1.00	15.9		1.6	0.5-3.5	3.5	0.7	
	1.15	16.2		1.6	0.5-3.5	3.5	0.7	
NaanPC 16/2.2	0.90	15.7	13.9	2.3	0.5-3.0	3.0	0.7	
	1.00	15.9		2.3	0.5-3.5	3.5	0.7	
	1.15	16.2		2.2	0.5-3.5	3.5	0.7	
NaanPC 16/3.5	0.90	15.7	13.9	3.5	0.7-3.0	3.0	0.7	
	1.00	15.9		3.5	0.7-3.5	3.5	0.7	
	1.15	16.2		3.5	0.7-3.5	3.5	0.7	
NaanPC 20/0.95	1.00	19.7	17.7	0.95	0.7-3.0	3.0	0.9	Barb 20
	1.20	20.1		0.95	0.7-3.5	3.5	0.9	
NaanPC 20/1.6	1.00	19.7	17.7	1.6	0.5-3.0	3.0	0.9	
	1.20	20.1		1.6	0.5-3.5	3.5	0.9	
NaanPC 20/2.2	1.00	19.7	17.7	2.3	0.5-3.0	3.0	0.9	
	1.20	20.1		2.2	0.5-3.5	3.5	0.9	
NaanPC 20/3.8	1.00	19.7	17.7	4.0	0.5-3.0	3.0	0.9	
	1.20	20.1		3.8	0.5-3.5	3.5	0.9	

NAANPC PACKAGING AND SHIPPING

Nominal diameter (mm)	Wall thickness (mm)	Standard coil length (m)	Coils per 20 ft. container	Coils per 40 ft. container	Coils per 40 ft. HC container
16	0.90	400	165	350	395
	1.00	400	165	350	395
	1.15	400	165	350	395
20	1.00	300	125	270	300
	1.20	300	134	290	320



THICK & MEDIUM WALLED PC CYLINDRICAL DRIPLINE

NaanPC 16mm



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

NaanPC 16/1.1 1.2 l/h, W.T 0.9 -1.00mm ID 13.9mm

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.1						
40	0.7	0.3	0.1	0.1	0.1		
60	2.3	0.9	0.4	0.3	0.2	0.1	0.1
80	5.4	2	1	0.6	0.4	0.3	0.1
100	10.6	3.9	2	1.2	0.8	0.6	0.3
120	18.3	6.7	3.3	2	1.4	1	0.5
140		10.5	5.2	3.1	2.1	1.5	0.7
160		15.6	7.8	4.7	3.1	2.2	1.1
180		22	11	6.6	4.4	3.1	1.5
200			15	8.9	6	4.2	2
220			19.9	11.8	7.9	5.6	2.7
240				25.7	15.3	10.2	3.4
260					19.3	12.8	9.1
280					24	15.9	11.4
300						19.6	13.8
320						23.6	16.8
340							19.9
360							23.6
380							12.9
400							14.9
420							17.2
440							19.6
460							22.3
480							25.3

NaanPC 16/1.1 1.1 l/h, W.T 1.15 mm ID 13.9mm

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.1						
40	0.6	0.2	0.1	0.1			
60	1.9	0.7	0.4	0.2	0.2	0.1	0.1
80	4.6	1.7	0.9	0.5	0.4	0.3	0.1
100	8.9	3.3	1.6	1	0.7	0.5	0.2
120	15.4	5.6	2.8	1.7	1.1	0.8	0.4
140	24.4	8.8	4.4	2.7	1.8	1.3	0.6
160		13.1	6.6	3.9	2.6	1.9	0.9
180		18.5	9.3	5.6	3.7	2.7	1.3
200		25.4	12.7	7.6	5.1	3.6	1.7
220			16.8	10	6.7	4.8	2.2
240			21.7	12.9	8.6	6.1	2.9
260				16.3	10.9	7.7	3.6
280				20.3	13.5	9.6	4.5
300				24.9	16.5	11.7	5.5
320					19.9	14.2	6.6
340					23.7	16.9	7.9
360						20	9.3
380						23.3	10.9
400							12.6
420							14.5
440							16.6
460							18.9
480							21.4

NaanPC 16/1.6 1.6 l/h, W.T 0.9 -1.15 mm ID 13.9mm

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.2	0.1					
40	1.2	0.5	0.2	0.1	0.1	0.1	
60	4.1	1.5	0.8	0.5	0.3	0.2	0.1
80	9.7	3.5	1.8	1.1	0.7	0.5	0.3
100	18.8	6.8	3.4	2	1.4	1	0.5
120		11.7	5.8	3.5	2.4	1.7	0.8
140		18.4	9.2	5.5	3.7	2.6	1.3
160			13.6	8.1	5.4	3.9	1.8
180			19.3	11.5	7.7	5.5	2.6
200				15.6	10.4	7.4	3.5
220				20.7	13.7	9.8	4.6
240					17.8	12.5	5.9
260					22.4	15.9	7.4
280						19.8	9.2
300						24.1	11.2
320							13.5
340							16.1
360							19
380							22.2
400							25.8

NaanPC 16/2.2 2.3 l/h, W.T 0.9-1.00 mm ID 13.9mm

Lateral length(m)	Dripper spacing (cm)								
	20	30	40	50	60	70	80	90	100
20	0.3	0.1	0.1						
40	2.5	0.9	0.5	0.3	0.2	0.1	0.1	0.1	0.1
60	8.4	3.1	1.6	0.9	0.6	0.5	0.3	0.3	0.2
80	19.9	7.2	3.6	2.2	1.5	1	0.8	0.6	0.5
100		14	6.9	4.1	2.8	2	1.5	1.2	1
120		24	11.9	7.1	4.7	3.4	2.5	2	1.6
140			18.7	11.1	7.4	5.2	4	3.1	2.5
160				16.4	10.9	7.7	5.8	4.5	3.7
180				23.2	15.5	11	8.1	6.3	5.1
200					21	14.8	11	8.6	6.9
220						19.6	14.6	11.4	9.1
240						25.2	18.7	14.6	11.8
260							23.7	18.4	14.8
280								22.9	18.4
300									22.4

NaanPC 16/2.2 2.2 l/h, W.T 1.15 mm ID 13.9mm

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.3	0.1	0.1				
40	2.3	0.9	0.4	0.3	0.2	0.1	0.1
60	7.7	2.8	1.4	0.9	0.6	0.4	0.2
80	18.2	6.6	3.3	2	1.3	1	0.5
100		12.8	6.4	3.8	2.5	1.8	0.9
120		22	10.9	6.5	4.4	3.1	1.5
140			17.1	10.2	6.8	4.8	2.3
160			25.4	15.1	10	7.1	3.4
180				21.3	14.2	10.1	4.7
200					19.2	13.6	6.4
220					25.3	18	8.4
240						23.1	10.8
260							13.6
280							16.9
300							20.6
320							24.8

NaanPC 16/3.5 3.5 l/h, W.T 0.9-1.15 mm ID 13.9mm

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.8	0.3	0.1	0.1	0.1		
40	5.8	2.1	1.1	0.6	0.4	0.3	0.2
60	19.5	7.1	3.6	2.1	1.4	1	0.5
80		16.4	8.2	4.9	3.3	2.3	1.1
100			15.8	9.3	6.2	4.4	2.1
120				15.9	10.7	7.5	3.6
140				25.1	16.7	11.7	5.5
160					24.5	17.4	8.1
180						24.6	11.4
200							15.5
220							20.4

THICK & MEDIUM WALLED PC CYLINDRICAL DRIPLINE

NaanPC 20mm



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

NaanPC 20/0.95 0.95 l/h, W.T 1.00-1.20mm ID 17.7mm

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
40	0.2	0.1					
60	0.7	0.2	0.1	0.1			
80	1.5	0.6	0.3	0.2	0.1	0.1	
100	2.9	1.1	0.5	0.3	0.2	0.1	0.1
120	5	1.8	0.9	0.5	0.3	0.2	0.1
140	7.8	2.8	1.4	0.8	0.5	0.4	0.2
160	11.5	4.1	2	1.2	0.8	0.5	0.3
180	16.2	5.7	2.8	1.7	1.1	0.8	0.4
200	22	7.8	3.8	2.2	1.5	1	0.5
220		10.3	5	2.9	1.9	1.4	0.6
240		13.2	6.5	3.8	2.5	1.7	0.8
260		16.6	8.1	4.8	3.1	2.2	1
280		20.3	10.1	5.9	3.9	2.7	1.2
300		25.1	12.3	7.2	4.7	3.3	1.5
320			14.9	8.7	5.7	4	1.8
340			17.7	10.3	6.8	4.7	2.2
360			20.9	12.2	7.9	5.6	2.5
380			24.5	14.3	9.3	6.5	3
400				16.5	10.8	7.6	3.4
420				19	12.4	8.7	3.9
440				21.8	14.2	10	4.5
460				24.7	16.1	11.3	5.1
480					18.2	12.8	5.8
500					20.5	14.4	6.5

NaanPC 20/1.6 1.6 l/h, W.T 1.00-1.20mm ID 17.7mm

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
40	0.6	0.2	0.1	0.1			
60	1.8	0.7	0.3	0.2	0.1	0.1	
80	4.1	1.5	0.7	0.4	0.3	0.2	0.1
100	7.9	2.8	1.4	0.8	0.5	0.4	0.2
120	13.4	4.8	2.3	1.4	0.9	0.6	0.3
140	21	7.4	3.7	2.1	1.4	1.0	0.5
160		11	5.4	3.1	2.1	1.5	0.7
180		15.4	7.5	4.4	2.9	2.0	0.9
200		20.9	10.2	6.0	3.9	2.7	1.3
220			13.5	7.9	5.2	3.6	1.6
240			17.3	10.1	6.6	4.6	2.1
260			21.8	12.8	8.3	5.9	2.7
280				15.8	10.3	7.3	3.3
300				19.3	12.6	8.8	4.0
320				23.2	15.2	10.7	4.8
340					18	12.6	5.7
360					21.2	14.9	6.7
380					24.9	17.4	7.9
400						20.2	9.1
420						23.3	10.5
440							12
460							13.6
480							15.4
500							17.3

NaanPC 20/2.2 2.2 l/h, W.T 1.00-1.20mm ID 17.7mm

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
40	1.0	0.4	0.2	0.1	0.1	0.1	
60	3.3	1.2	0.6	0.3	0.2	0.2	0.1
80	7.6	2.7	1.3	0.8	0.5	0.4	0.2
100	14.5	5.2	2.5	1.5	1.0	0.7	0.3
120	24.6	8.8	4.3	2.5	1.7	1.2	0.5
140		13.6	6.7	3.9	2.6	1.8	0.8
160		20.1	9.8	5.7	3.8	2.6	1.2
180			13.8	8.1	5.3	3.7	1.7
200			18.7	10.9	7.2	5.0	2.3
220			24.6	14.4	9.4	6.6	3.0
240				18.5	12.1	8.4	3.8
260				23.3	15.2	10.7	4.8
280					18.8	13.2	6.0
300					23.0	16.1	7.3
320						19.4	8.7
340						23.0	10.4
360							12.3
380							14.3
400							16.6
420							19.1
440							21.8
460							24.7

NaanPC 20/3.8 3.8 l/h, W.T 1.00-1.20mm ID 17.7mm

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
40	2.9	1.0	0.5	0.3	0.2	0.1	0.1
60	9.3	3.4	1.7	1.0	0.6	0.4	0.2
80	21.5	7.6	3.7	2.2	1.4	1.0	0.5
100		14.6	7.1	4.2	2.7	1.9	0.9
120		24.7	12.0	7.0	4.6	3.2	1.5
140			18.8	11.0	7.2	5.0	2.3
160				16.1	10.5	7.4	3.4
180				22.6	14.8	10.4	4.7
200					20.0	14.0	6.4
220						18.5	8.4
240						23.6	10.7
260							13.5
280							16.6
300							20.3
320							24.4

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 0.6 l/h W.T 13-15 mil ID 11.8

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
40	0.1	0.1					
60	0.4	0.2	0.1	0.1			
80	0.9	0.3	0.2	0.1	0.1	0.1	
100	1.5	0.6	0.3	0.2	0.1	0.1	
120	2.5	1	0.5	0.3	0.2	0.2	0.1
140	3.7	1.5	0.8	0.5	0.3	0.2	0.1
160		2.2	1.2	0.7	0.5	0.4	0.2
180		3	1.6	1	0.7	0.5	0.2
200		3.9	2.1	1.3	0.9	0.6	0.3
220			2.7	1.7	1.2	0.8	0.4
240			3.5	2.2	1.5	1.1	0.5
260			4.3	2.7	1.8	1.3	0.6
280				3.3	2.2	1.6	0.8
300				3.9	2.7	2	1
320				4.7	3.2	2.3	1.1
340					3.8	2.8	1.3
360					4.4	3.2	1.6
380						3.7	1.8
400						4.3	2.1
420						4.9	2.4
440							2.7
460							3.1
480							3.5
500							3.9

TopDrip-16 0.6 l/h W.T 18 mil ID 11.8

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
40	0.1	0.1					
60	0.4	0.2	0.1	0.1			
80	0.9	0.4	0.2	0.1	0.1	0.1	
100	1.6	0.7	0.4	0.2	0.1	0.1	0.1
120	2.6	1.1	0.6	0.4	0.2	0.2	0.1
140	3.9	1.6	0.9	0.5	0.4	0.3	0.1
160	5.6	2.3	1.2	0.8	0.5	0.4	0.2
180	7.7	3.2	1.7	1.1	0.7	0.5	0.3
200		4.2	2.3	1.4	1	0.7	0.3
220		5.4	2.9	1.8	1.3	0.9	0.4
240		6.8	3.7	2.3	1.6	1.2	0.6
260		8.5	4.6	2.9	2	1.4	0.7
280			5.6	3.5	2.4	1.8	0.9
300			6.8	4.3	2.9	2.1	1
320			8.1	5.1	3.5	2.6	1.2
340			9.6	6	4.1	3	1.5
360				7	4.8	3.5	1.7
380				8.1	5.6	4.1	2
400				9.3	6.4	4.7	2.3
420					7.3	5.4	2.6
440					8.4	6.1	3
460					9.4	6.9	3.4
480						7.8	3.8
500						8.7	4.3

TopDrip-16 0.6 l/h W.T 25 mil ID 11.8

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
40	0.1	0.1					
60	0.4	0.2	0.1	0.1			
80	0.9	0.4	0.2	0.1	0.1	0.1	
100	1.6	0.7	0.4	0.2	0.2	0.1	0.1
120	2.7	1.1	0.6	0.4	0.3	0.2	0.1
140	4	1.7	0.9	0.6	0.4	0.3	0.1
160	5.8	2.4	1.3	0.8	0.5	0.4	0.2
180	7.9	3.3	1.8	1.1	0.8	0.6	0.3
200	10.5	4.3	2.3	1.5	1	0.7	0.4
220	13.5	5.6	3	1.9	1.3	1	0.5
240		7.1	3.8	2.4	1.7	1.2	0.6
260		8.8	4.8	3	2.1	1.5	0.7
280		10.8	5.8	3.7	2.5	1.9	0.9
300		12.9	7.1	4.4	3.1	2.2	1.1
320			8.4	5.3	3.6	2.7	1.3
340			10	6.2	4.3	3.1	1.5
360			11.6	7.3	5	3.7	1.8
380			13.5	8.5	5.8	4.3	2.1
400				9.7	6.7	4.9	2.4
420				11.1	7.7	5.6	2.8
440				12.7	8.7	6.4	3.1
460				14.3	9.9	7.2	3.5
480					11.1	8.1	4
500					12.4	9.1	4.5

TopDrip 16, 1.0 l/h, W.T13-15 mil, ID 16.2

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.1						
40	0.3	0.1	0.1				
60	0.9	0.4	0.2	0.1	0.1	0.1	
80	2.0	0.8	0.4	0.3	0.2	0.1	0.1
100	3.5	1.5	0.8	0.5	0.3	0.2	0.1
120	5.8	2.4	1.3	0.8	0.5	0.4	0.2
140	8.7	3.6	1.9	1.2	0.8	0.6	0.3
160	12.4	5.1	2.8	1.7	1.2	0.9	0.4
180		7.0	3.8	2.4	1.6	1.2	0.6
200		9.3	5.0	3.2	2.2	1.6	0.8
220		12.1	6.5	4.1	2.8	2.0	1.0
240			8.3	5.2	3.6	2.6	1.3
260			10.3	6.4	4.4	3.2	1.6
280			12.6	7.9	5.4	4.0	1.9
300				9.5	6.6	4.8	2.3
320				11.4	7.8	5.7	2.8
340					9.2	6.7	3.3
360					10.8	7.9	3.9
380						9.1	4.5
400						10.6	5.2
420							5.9
440							6.7
460							7.6
480							8.6
500							9.6

TopDrip 16, 1.0 l/h, W.T 18mil, ID 15.8

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.1						
40	0.3	0.1	0.1				
60	1	0.4	0.2	0.1	0.1	0.1	
80	2.1	0.9	0.5	0.3	0.2	0.1	0.1
100	3.7	1.6	0.8	0.5	0.4	0.3	0.1
120	6.1	2.5	1.4	0.8	0.6	0.4	0.2
140	9.2	3.8	2.1	1.3	0.9	0.6	0.3
160		5.5	3	1.9	1.3	0.9	0.5
180		7.5	4.1	2.6	1.8	1.3	0.6
200		10	5.4	3.4	2.4	1.7	0.8
220			7	4.4	3	2.2	1.1
240			8.9	5.6	3.9	2.8	1.4
260			11.1	7	4.8	3.5	1.7
280				8.6	5.9	4.3	2.1
300				10.3	7.2	5.2	2.6
320					8.5	6.3	3.1
340					10.1	7.4	3.6
360						8.6	4.2
380						10.0	4.9
400							5.7
420							6.5
440							7.4
460							8.4
480							9.4
500							10.6

TopDrip 16, 1.0 l/h, W.T 25mil, ID 15.6

Lateral length(m)	Dripper spacing (cm)						
	20	30	40	50	60	70	100
20	0.1						
40	0.3	0.1	0.1				
60	1.0	0.4	0.2	0.1	0.1	0.1	
80	2.2	0.9	0.5	0.3	0.2	0.2	0.1
100	3.9	1.6	0.9	0.5	0.4	0.3	0.1
120	6.4	2.7	1.4	0.9	0.6	0.5	0.2
140	9.6	4.0	2.2	1.4	0.9	0.7	0.3
160	13.8	5.8	3.1	2	1.4	1.0	0.5
180	18.9	7.9	4.3	2.7	1.9	1.4	0.7
200		10.5	5.8	3.6	2.5	1.8	0.9
220		13.7	7.5	4.7	3.3	2.4	1.2
240		17.3	9.5	6.0	4.1	3.0	1.5
260		21.5	11.8	7.4	5.2	3.8	1.9
280			14.4	9.1	6.3	4.6	2.3
300			17.4	11.0	7.7	5.6	2.8
320			20.9	13.2	9.1	6.7	3.3
340				15.6	10.8	7.9	3.9
360				18.2	12.6	9.3	4.6
380				21.1	14.7	10.7	5.3
400					16.9	12.4	6.1
420					19.3	14.2	7.0
440					22.0	16.1	8.0
460						18.3	9.0
480						20.5	10.2
500							11.4

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

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
200			23.7	13.0	8.2	5.7	4.2
220				16.9	10.7	7.4	5.5
240				21.5	13.6	9.5	6.9
260					17	11.8	8.7
280					20.8	14.4	10.7
300						17.5	12.9
320						20.9	15.4
340							18.2
360							21.3
380							24.3
400							28.2
420							33.1
440							39.0

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

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

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.

THIN TO MEDIUM-WALLED PC FLAT DRIPLINE

TopDrip 22 mm

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

TopDrip-22 0.6 l/h W.T 13-25 mil ID 11.8							
Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100
20							
40	0.1						
60	0.2	0.1					
80	0.3	0.1	0.1				
100	0.5	0.2	0.1	0.1	0.1		
120	0.7	0.3	0.2	0.1	0.1	0.1	
140	1.1	0.5	0.3	0.2	0.1	0.1	
160	1.4	0.7	0.4	0.2	0.2	0.1	0.1
180	1.9	0.9	0.5	0.3	0.2	0.2	0.1
200	2.4	1.1	0.6	0.4	0.3	0.2	0.1
220	2.9	1.4	0.8	0.5	0.4	0.3	0.1
240	3.6	1.7	1	0.6	0.4	0.3	0.2
260	4.3	2	1.2	0.8	0.5	0.4	0.2
280		2.4	1.4	0.9	0.6	0.5	0.2
300		2.8	1.6	1.1	0.8	0.6	0.3
320		3.3	1.9	1.2	0.9	0.7	0.3
340		3.8	2.2	1.4	1	0.8	0.4
360		4.3	2.5	1.6	1.2	0.9	0.4
380		5	2.9	1.9	1.3	1	0.5
400			3.3	2.1	1.5	1.1	0.6
420			3.7	2.4	1.7	1.3	0.7
440			4.1	2.7	1.9	1.4	0.7
460			4.6	3	2.1	1.6	0.8
480				3.3	2.4	1.8	0.9
500				3.7	2.6	2	1

TopDrip 22, 1.0l/h, W.T 13-25mil, ID 22.2							
Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100
40	0.1	0.1					
60	0.3	0.1	0.1	0.1			
80	0.6	0.3	0.2	0.1	0.1	0.1	
100	0.9	0.4	0.2	0.2	0.1	0.1	
120	1.4	0.7	0.4	0.2	0.2	0.1	0.1
140	2	0.9	0.5	0.4	0.3	0.2	0.1
160	2.8	1.3	0.7	0.5	0.3	0.3	0.1
180	3.6	1.7	1.0	0.6	0.5	0.3	0.2
200	4.7	2.2	1.3	0.8	0.6	0.4	0.2
220	5.9	2.7	1.6	1.0	0.7	0.6	0.3
240	7.3	3.4	2.0	1.3	0.9	0.7	0.3
260	8.8	4.1	2.4	1.6	1.1	0.8	0.4
280	10.6	4.9	2.9	1.9	1.3	1.0	0.5
300	12.6	5.8	3.4	2.2	1.6	1.2	0.6
320	14.6	6.9	4.0	2.6	1.9	1.4	0.7
340		8.0	4.6	3.0	2.2	1.6	0.8
360		9.2	5.4	3.5	2.5	1.9	1.0
380		10.6	6.2	4.0	2.9	2.1	1.1
400		12.0	7.0	4.6	3.3	2.4	1.3
420		13.6	7.9	5.2	3.7	2.8	1.4
440		15.3	8.9	5.9	4.2	3.1	1.6
460			10.0	6.6	4.7	3.5	1.8
480			11.2	7.3	5.2	3.9	2.0
500			12.4	8.2	5.8	4.3	2.2

TopDrip 22, 1.6l/h, W.T 13-25mil, ID 22.2							
Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100
40	0.2	0.1	0.1				
60	0.5	0.2	0.1	0.1	0.1		
80	1.0	0.5	0.3	0.2	0.1	0.1	
100	1.7	0.8	0.5	0.3	0.2	0.2	0.1
120	2.7	1.2	0.7	0.5	0.3	0.2	0.1
140	3.8	1.8	1.0	0.7	0.5	0.4	0.2
160	5.3	2.5	1.4	0.9	0.7	0.5	0.3
180	7.1	3.3	1.9	1.3	0.9	0.7	0.3
200	9.2	4.3	2.5	1.6	1.2	0.9	0.4
220	11.7	5.5	3.2	2.1	1.5	1.1	0.6
240	14.6	6.8	3.9	2.6	1.9	1.4	0.7
260	17.9	8.3	4.8	3.2	2.3	1.7	0.9
280		10.1	5.8	3.8	2.7	2.1	1.1
300		12.0	7.0	4.6	3.3	2.4	1.3
320		14.2	8.3	5.4	3.9	2.9	1.5
340		16.6	9.7	6.3	4.5	3.4	1.7
360			11.2	7.4	5.2	3.9	2.0
380			12.9	8.5	6.1	4.5	2.3
400			14.8	9.7	6.9	5.2	2.7
420			16.8	11.0	7.9	5.9	3.0
440				12.5	8.9	6.7	3.4
460				14.0	10.0	7.5	3.9
480				15.7	11.2	8.4	4.3
500				17.5	12.5	9.4	4.8

TopDrip 22, 2.0l/h, W.T 13-25mil, ID 22.2							
Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100
40	0.3	0.2	0.1	0.1	0.1	0.1	0.1
60	0.7	0.4	0.2	0.2	0.1	0.1	0.1
80	1.4	0.7	0.4	0.3	0.2	0.2	0.1
100	2.3	1.1	0.7	0.5	0.3	0.3	0.2
120	3.6	1.7	1	0.7	0.5	0.4	0.2
140	5.3	2.5	1.5	1	0.7	0.5	0.3
160	7.3	3.4	2	1.3	1	0.7	0.4
180		4.6	2.7	1.8	1.3	1	0.5
200		6	3.5	2.3	1.7	1.3	0.7
220		7.6	4.5	3	2.1	1.6	0.8
240			5.6	3.7	2.6	2	1
260			6.9	4.5	3.2	2.4	1.3
280				5.5	3.9	2.9	1.5
300				6.6	4.7	3.5	1.8
320				7.8	5.5	4.2	2.2
340					6.5	4.9	2.5
360					7.6	5.7	2.9
380						6.5	3.4
400						7.5	3.9
420							4.4
440							5
460							5.6
480							6.3
500							7

TopDrip 22, 2.2l/h, W.T 13-25mil, ID 22.2							
Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100
40	0.4	0.2	0.1	0.1	0.1	0.1	0.1
60	0.8	0.4	0.3	0.2	0.1	0.1	0.1
80	1.6	0.8	0.5	0.3	0.2	0.2	0.1
100	2.7	1.3	0.8	0.5	0.4	0.3	0.2
120	4.1	2	1.2	0.7	0.6	0.4	0.2
140	6	2.8	1.7	1.1	0.8	0.6	0.3
160		3.9	2.3	1.5	1.1	0.8	0.5
180		5.3	3.1	2.1	1.5	1.1	0.6
200		6.5	4.1	2.7	1.9	1.5	0.8
220			5.2	3.4	2.5	1.8	1
240			6.5	4.3	3.1	2.3	1.2
260			8	5.3	3.8	2.8	1.5
280				6.4	4.6	3.4	1.8
300				7.6	5.5	4.1	2.1
320					6.5	4.9	2.5
340					7.6	5.7	2.9
360						6.6	3.4
380						7.7	4
400							4.5
420							5.2
440							5.8
460							6.6
480							7.4
500							8.2

TopDrip-22 3.5 l/h W.T 13-25 mil ID 11.8							
Dripper spacing (cm)							
Lateral length(m)	20	30	40	50	60	70	100
20	0.1	0.1					
40	0.6	0.3	0.2	0.1	0.1	0.1	
60	1.5	0.7	0.4	0.3	0.2	0.1	0.1
80	3	1.4	0.8	0.5	0.4	0.3	0.2
100		2.5	1.4	0.9	0.7	0.5	0.3
120		3.9	2.3	1.5	1.1	0.8	0.4
140			3.4	2.2	1.6	1.2	0.6
160			4.8	3.1	2.2	1.7	0.9
180				4.3	3.1	2.3	1.2
200					4	3	1.6
220						3.9	2
240						4.9	2.5
260							3.1
280							3.8
300							4.6

NaanPC Light 16mm

Combines the advantages of a PC dripper with an attractive economical solution



TECHNICAL DATA

Product name	Wall thickness (mm)	OD (mm)	ID (mm)	Nominal flow rate (l/h)	Pressure regulating range (bar)	Max pressure (bar)	KD	Connector Type
NaanPC light 16/1.25	0.63	15.2	13.9	1.25	0.5-2.5	2.5	0.7	Barb 16
NaanPC light 16/1.7	0.63	15.2	13.9	1.7	0.5-2.5	2.5	0.7	
NaanPC light 16/2.5	0.63	15.2	13.9	2.5	0.5-2.5	2.5	0.7	
NaanPC light 16/3.5	0.63	15.2	13.9	3.5	0.7-2.5	2.5	0.7	

PACKAGING AND SHIPPING

Nominal diameter (mm)	Wall thickness (mm)	Standard coil length (m)	Coils per 20 ft. container	Coils per 40 ft. container	Coils per 40 ft. HC container
16	0.65	500	140	260	290

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

NaanPC Light 16/1.25 1.25 l/h, W.T 0.63 mm ID 13.9mm								
Lateral length(m)	Dripper spacing (cm)							
	20	30	40	50	60	70	100	
20	0.1							
40	0.7	0.3	0.1	0.1	0.1			
60	2.5	0.9	0.5	0.3	0.2	0.1	0.1	
80	5.9	2.2	1.1	0.7	0.5	0.3	0.2	
100	11.5	4.2	2.1	1.3	0.9	0.6	0.3	
120		7.2	3.6	2.2	1.5	1	0.5	
140		11.3	5.7	3.4	2.3	1.6	0.8	
160			8.4	5	3.4	2.4	1.1	
180			11.9	7.1	4.8	3.4	1.6	
200				9.7	6.5	4.6	2.2	
220				12.8	8.5	6.1	2.9	
240					11	7.8	3.7	
260					13.9	9.9	4.6	
280						12.3	5.7	
300							7	
320							8.5	
340							10.1	
360							11.9	

NaanPC Light 16/1.7 1.7 l/h, W.T 0.63 mm ID 13.9mm								
Lateral length(m)	Dripper spacing (cm)							
	20	30	40	50	60	70	100	
20	0.2	0.1						
40	1.2	0.5	0.2	0.1	0.1	0.1		
60	4.1	1.5	0.8	0.5	0.3	0.2	0.1	
80	9.7	3.5	1.8	1.1	0.7	0.5	0.3	
100		6.8	3.4	2	1.4	1	0.5	
120		11.7	5.8	3.5	2.4	1.7	0.8	
140			9.2	5.5	3.7	2.6	1.3	
160				8.1	5.4	3.9	1.8	
180				11.5	7.7	5.5	2.6	
200					10.4	7.4	3.5	
220						9.8	4.6	
240						12.5	5.9	
260							7.4	
280							9.2	
300							11.2	

NaanPC Light 16/2.5 2.5 l/h, W.T 0.63 mm ID 13.9mm								
Lateral length(m)	Dripper spacing (cm)							
	20	30	40	50	60	70	100	
20	0.4	0.1	0.1					
40	3	1.1	0.6	0.3	0.2	0.2	0.1	
60	10	3.6	1.8	1.1	0.7	0.5	0.3	
80		8.5	4.2	2.5	1.7	1.2	0.6	
100			8.2	4.9	3.2	2.3	1.1	
120				8.3	5.6	3.9	1.9	
140				13	8.7	6.1	2.9	
160					12.8	9.1	4.3	
180						12.9	6	
200							8.1	
220							10.7	
240							13.8	

NaanPC Light 16/3.5 3.5 l/h, W.T 0.63 mm ID 13.9mm								
Lateral length(m)	Dripper spacing (cm)							
	20	30	40	50	60	70	100	
20	0.8	0.3	0.1	0.1	0.1			
40	5.8	2.1	1.1	0.6	0.4	0.3	0.2	
60		7.1	3.6	2.1	1.4	1	0.5	
80			8.2	4.9	3.3	2.3	1.1	
100				9.3	6.2	4.4	2.1	
120					10.7	7.5	3.6	
140						11.7	5.5	
160							8.1	
180							11.4	

THICK & MEDIUM WALLED NON-PC CYLINDRICAL DRIPLINE

TifDrip



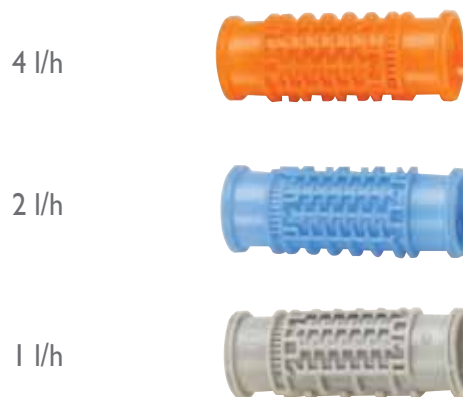
High-performance, long-lasting cylindrical 16 mm dripper incorporates the unique advantages of the Cascade labyrinth

APPLICATIONS

- All-purpose dripline
- Suitable for greenhouses, vegetables, flower fields, orchards and field crops

STRUCTURE AND FEATURES

- Compact cylindrical design with double water inlets and outlets ensures high clog resistance and improved durability
- Wide water passages facilitates constant flushing of sand and dirt particles, contributing to efficient self-cleaning
- Wide range of wall thicknesses: 0.65-1.15 mm
- Low CV ensures accurate and reliable flow
- Drippers are easily visible

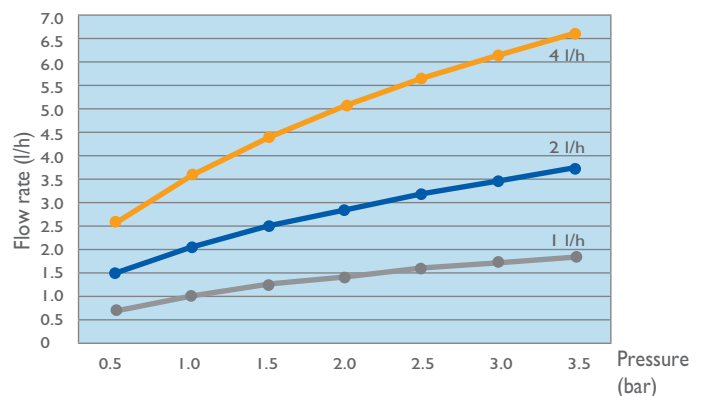


FLOW RATE VS. PRESSURE

P (bar)	W.T	Nominal flow rate (l/h)											
		16/1				16/2				16/4			
		0.65mm	0.9mm	1.0mm	1.15mm	0.65mm	0.9mm	1.0mm	1.15mm	0.65mm	0.9mm	1.0mm	1.15mm
0.5		0.82	0.82	0.82	0.72	1.61	1.50	1.50	1.43	2.72	2.58	2.58	2.58
1.0		1.20	1.15	1.15	1.00	2.25	2.10	2.10	2.00	3.80	3.60	3.60	3.60
1.5		1.40	1.40	1.40	1.21	2.73	2.55	2.55	2.43	4.62	4.37	4.37	4.37
2.0		1.60	1.60	1.60	1.39	3.14	2.93	2.93	2.79	5.30	5.02	5.02	5.02
2.5			1.79	1.79	1.55		3.26	3.26	3.10		5.59	5.59	5.59
3.0			1.95	1.95	1.69		3.56	3.56	3.39		6.10	6.10	6.10
3.5				2.10	1.82			3.83	3.65			6.57	6.57
a		0.381	0.381	0.381	0.331	0.745	0.695	0.695	0.662	1.258	1.192	1.192	1.192
x		0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48

a=Dripper flow constant x=Dripper flow exponent

Flow rate vs. Pressure



THICK & MEDIUM WALLED NON-PC CYLINDRICAL DRIPLINE

TifDrip

TECHNICAL DATA

Nominal diameter (mm)	Wall thickness		ID (mm)	OD (mm)	Maximum working pressure (bar)	KD	Connectors Barb	Packaging and shipping			
	(mm)	(mil)						Coil length	Coils per 20 ft. container	Coils per 40 ft. container	Coils per 40 ft. HC container
16	0.65	25	13.9	15.20	2.0	0.55	•	500	140	260	290
	0.90	35	13.9	15.70	3.0	0.55	•	400	165	350	395
	1.00	39	13.9	15.90	3.5	0.55	•	400	165	350	395
	1.15	45	13.9	16.20	3.5	0.55	•	400	165	350	395



MAXIMAL LATERAL LENGTH (M), AT 10% FLOW VARIATION AND 1 BAR INLET PRESSURE*

Dripline Type		Maximal Lateral Length (m) for Drinker Spacing (cm)						
Nominal diameter (mm)	Wall thickness (mm)	20	30	40	50	60	70	100

TifDrip 16/1								
16	0.65	58	82	102	120	138	159	196
	0.90	63	88	110	130	149	167	207
	1.00	63	88	110	130	149	167	207
	1.15	69	96	120	142	163	183	231

TifDrip 16/2								
16	0.65	48	63	77	90	101	113	138
	0.90	44	61	76	90	103	115	144
	1.00	44	61	76	90	103	115	144
	1.15	45	62	78	92	106	118	149

TifDrip 16/4								
16	0.65	36	47	56	66	74	83	101
	0.90	32	43	54	64	73	82	103
	1.00	32	43	54	64	73	82	103
	1.15	32	43	54	64	73	82	103

* On flat ground

* See pressure range in the technical data table.



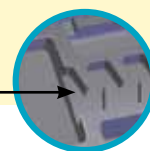
THIN & MEDIUM WALLED NON-PC FLAT DRIPLINE

TalDrip



Innovative thin/medium-walled dripline with the most advanced labyrinth dripper on the market: maximum durability, accuracy and clog resistance

Protection from sand and root



APPLICATIONS

- Ideal for sugarcane and biofuel crops, vegetables, flowers and other row crops requiring low discharge and close dripper spacing
- Germination and seedling establishment
- SDI (sub-surface drip irrigation) and surface installation

STRUCTURE AND FEATURES

- Incorporates the Cascade labyrinth Sets new standards of clog resistance for thin-walled driplines:
 - Double flow regime for highly effective self-cleaning
 - 3D water inlet triples handling of dirt load
 - Grooved surface design ensures reliable performance, even when inlet surface area is covered with clogging materials
- Spacial design to minimize root intrusion and sand suction
- Closer dripper spacing (from 15 cm) for successful germination and improved irrigation management
- Very low CV ensures accurate performance
- Advanced quality-control technology for reliable performance
- Longer lateral and higher accuracy with excellent dripper exponent
- Filtration Recommendation:
 - 1.0, 1.7 & 4.0 l/h 130 micron (120 mesh)
 - 0.6 l/h 100 micron (150 mesh)

4.0 l/h



1.7 l/h



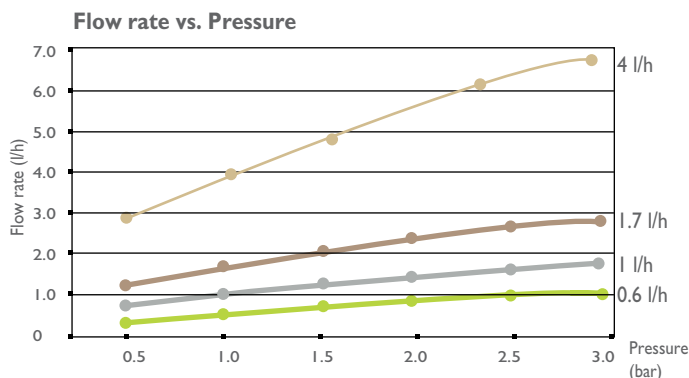
1.0 l/h



0.6 l/h*



- * Available in thin-walled dripline only W.T 6-15 mil
- * Requires 100 micron filtration



FLOW RATE VS. PRESSURE

p (bar)	Nominal flow rate (l/h)									
	0.6		1.0		1.7			4.0		
	6-15 mil	6-18 mil	25 mil	35 mil	6-18 mil	25 mil	35 mil	6-18 mil	25 mil	35 mil
0.5	0.47	0.75	0.77	0.80	1.27	1.25	1.30	2.55	2.70	2.90
1.0	0.60	1.00	1.05	1.10	1.60	1.70	1.80	3.50	3.70	4.00
1.5	0.80	1.20	1.25	1.30	1.90	2.05	2.15	4.20	4.45	4.80
2.0	0.90	1.35	1.45	1.50	2.20	2.30	2.45	4.80	5.10	5.50
2.5			1.60	1.65		2.60	2.70		5.65	6.10
3.0			1.70	1.80		2.80	2.95		6.10	6.60
a	0.208	0.348	0.362	0.381	0.555	0.590	0.639	1.241	1.283	1.387
x	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46

a=Dripper flow constant, x=Dripper flow exponent

THIN & MEDIUM WALLED NON-PC FLAT DRIPLINE

TalDrip

TECHNICAL DATA

Nominal diameter	Wall thickness		OD	ID	Max. pressure	KD	Connectors type		Packaging and shipping				
	(mm)	(mil)					Barb	Tape	Standard coil length (m)	Coils per pallet	Coils per 20 ft. container	Coils per 40 ft. container	Coils per 40 ft. HC container
12	0.33	13	12.46	11.80	1.5	0.22		•	2500	16	320	640	720
	0.38	15	12.56	11.80	2.0	0.22		•	2000	16	320	640	720
	0.45	18	12.70	11.80	2.2	0.22		•	1500	16	320	640	720
	0.63	25	13.06	11.80	3.0	0.22		•	800	16	320	640	720
16	0.90	35	15.70	13.9	3.0	0.11	•		400	16	320	640	720
17	0.15	6	16.30	16.0	0.7	0.1		•	3500	16	320	640	720
	0.20	8	16.40	16.0	0.9	0.1		•	3000	16	320	640	720
	0.25	10	16.30	15.8	1.0	0.1		•	2000	16	320	640	720
	0.33	13	16.46	15.8	1.4	0.1		•	2000	16	320	640	720
	0.38	15	16.56	15.8	1.8	0.1		•	1500	16	320	640	720
	0.45	18	16.70	15.8	2.0	0.1		•	1250	16	320	640	720
	0.63	25	16.86	15.6	2.5	0.1		•	900	16	320	640	720
20	0.90	35	19.6	17.7	3.0	0.1	•		400	16	320	640	720
22	0.20	8	22.60	22.2	0.7	0.095		•	2000	16	320	640	720
	0.25	10	22.70	22.2	0.8	0.095		•	1500	16	320	640	720
	0.33	13	22.86	22.2	1.2	0.095		•	1250	16	320	640	720
	0.38	15	22.96	22.2	1.4	0.095		•	1000	16	320	640	720
	0.45	18	23.10	22.2	1.7	0.095		•	900	16	320	640	720
	0.63	25	23.46	22.2	2.0	0.095		•	700	16	320	640	720



for any other diameter and wall thickness combinations please contact us

MAXIMAL LATERAL LENGTH (m), AT 10% FLOW VARIATION*

TalDrip 0.6 l/h

Dripline Type			Dripper Spacing (cm)						
Nominal diameter (mm)	Wall thickness (mil)	Internal diameter (mm)	20	30	40	50	60	70	
12	13	11.8	73.8	101.4	126.4	149	170.4	191.1	
	15	11.8	76.2	104.4	129.6	153	174.6	195.3	
	18	11.8	77	105.3	130.8	154.5	176.4	196.7	
	25	11.8	83.2	112.5	138.8	162.5	184.8	205.8	
17	6	16.0	135	182	224	262	298	331	
	8	16.0	130	174	214	250	283	315	
	10 - 15	15.8	130	174	214	250	283	315	
22	8 - 15	22.2	182	254	320	382	439	493	

TalDrip 1.0 l/h

12	13	11.8	53.6	73.5	91.2	107.5	123	137.2
	15	11.8	55.4	75.6	93.6	110.5	126	140.7
	18	11.8	56	76.2	94.4	111	126.6	141.4
	25	11.8	60	81	99.6	116.5	132.6	147.7
16	35	13.9	74	102	127	151	172	192
17	6 - 8	16.0	101	134	165	194	220	244
	10 - 18	15.8	101	136	167	195	221	246
	25	15.6	97	131	161	188	213	237
20	35	17.7	104	144	181	214	245	275
22	8 - 25	22.2	135	187	233	276	315	353

TalDrip 1.7 l/h

Dripline Type			Dripper Spacing (cm)						
Nominal diameter (mm)	Wall thickness (mil)	Internal diameter (mm)	20	30	40	50	60	70	
12	13	11.8	39.8	54.3	67.2	79	90	100.8	
	15	11.8	41	55.8	68.8	81	92.4	102.9	
	18	11.8	41.4	56.1	69.6	81.5	93	103.6	
	25	11.8	44	59.4	72.8	85.5	96.6	107.8	
16	35	13.9	59	80	100	117	133	149	
17	6 - 8	16.0	72	96	118	137	155	173	
	10 - 18	15.8	78	104	128	149	169	188	
	25	15.6	74	99	120	144	159	177	
20	35	17.7	79	108	134	159	181	202	
22	8 - 25	22.2	114	158	197	233	267	300	

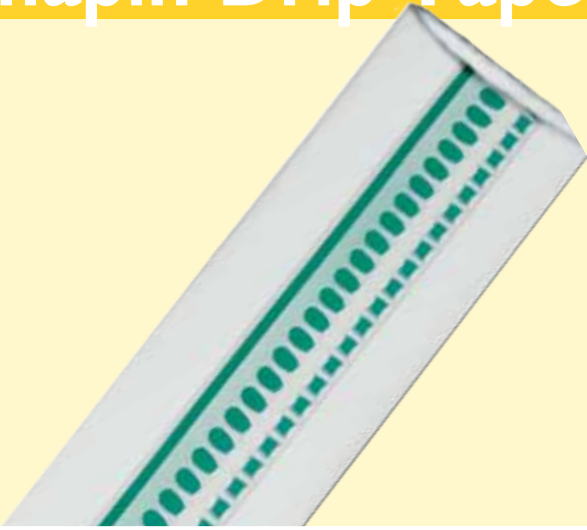
TalDrip 4.0 l/h

12	13	11.8	24.4	33	40.8	48	54.6	60.9
	15	11.8	25.2	33.9	42	49	55.8	62.3
	18	11.8	25.4	34.2	42.4	49.5	56.4	63
	25	11.8	26.8	36	44	51.5	58.2	65.1
16	35	13.9	36	49	60	71	80	90
17	6 - 8	16.0	42	56	69	80	91	101
	10 - 18	15.8	47	63	76	89	101	112
	25	15.6	45	61	74	86	97	109
20	35	17.7	49	66	82	96	109	122
22	8 - 25	22.2	71	98	122	143	164	183

* On flat ground * See maximum pressure in technical data table

THIN WALLED DRIP TAPE

Chapin-Drip Tape



Uniquely designed 16 mm and 22 mm tape for increased durability and clog resistance with 50 years of world wide experience

APPLICATIONS

- Irrigation of row crops, vegetables, flowers and landscape
- For sub-surface and surface drip irrigation

STRUCTURE AND FEATURES

BTF

- Extruded high quality polyethylene film ensures round sides, providing higher resistance to field abrasion and insect bites
- Multiple inlet orifices ensure a continuous water flow to each dripper
- Turbulent flow path design provides larger internal dimensions offering higher resistance to clogging
- Largest selection of flow rates, wall thicknesses, fittings and accessories in the market
- Slit design outlets resist root intrusion and soil ingestion
- Available in 16mm (5/8") and 22 mm (7/8") diameters
- Available wall thickness 4, 5, 6, 8, 10, 12, 13 and 15 mil
- A low emitter exponent ensures less flow and pressure variation on steep slopes to help increase emission uniformity.

Deluxe

- In addition to the BTF features the Deluxe model has: continuous filtration channel (328 inlets per 1 m) keeps the debris away from the flow path and allows it to purge by flushing, ensuring high performance and extends the life of the tape.
- Available wall thickness 5, 8, 10, 12, 13, 15 and 25 mil.



BTF



Deluxe



THIN WALLED DRIP TAPE

Chapin-Drip Tape



BTF Flow rates and spacing, 16 & 22 mm, 5-15 mil

Spacing		Flow rates at 0.7 bar (10 PSI)				Flow rates at 0.6 bar (8 PSI)				Filtration mesh
inch	cm	gpm/100ft	lph/100 m	gph/outlet	lph/outlet	gpm/100ft	lph/100m	gph/outlet	lph/outlet	
4	10	0.65	484	0.13	0.49	0.52	387	0.10	0.39	200
4	10	1.00	744	0.20	0.76	0.80	595	0.16	0.60	200
4	10	1.33	989	0.27	1.01	1.06	792	0.21	0.80	150
4	10	1.80	1,339	0.36	1.36	1.44	1,071	0.29	1.09	150
6	15	0.50	372	0.15	0.57	0.40	298	0.12	0.45	200
6	15	0.65	484	0.20	0.74	0.52	387	0.16	0.59	150
6	15	1.33	989	0.40	1.51	1.06	792	0.32	1.21	150
8	20	0.25	186	0.10	0.38	0.20	149	0.08	0.30	200
8	20	0.30	223	0.12	0.45	0.24	179	0.10	0.36	200
8	20	0.40	298	0.16	0.60	0.32	238	0.13	0.48	200
8	20	0.50	372	0.20	0.76	0.40	298	0.16	0.60	200
8	20	0.65	484	0.26	0.98	0.52	387	0.21	0.79	150
8	20	0.85	632	0.34	1.29	0.68	506	0.27	1.03	150
8	20	1.50	1,116	0.60	2.27	1.20	893	0.48	1.81	150
12	30	0.25	186	0.15	0.57	0.20	149	0.12	0.45	200
12	30	0.30	223	0.18	0.68	0.24	179	0.14	0.54	200
12	30	0.40	298	0.24	0.91	0.32	238	0.19	0.73	150
12	30	0.50	372	0.30	1.13	0.40	298	0.24	0.91	150
12	30	0.65	484	0.39	1.47	0.52	387	0.31	1.18	150
12	30	1.00	744	0.60	2.27	0.80	595	0.48	1.81	150
24	61	0.10	74	0.12	0.45	0.08	60	0.10	0.36	200

1. The above flow rates are available in 16 mm and 22 mm diameter, from 5 Mil to 15 Mil
2. Recommended operating pressure is 0.7 bar (10 PSI). Equivalent flow rates at 0.6 bar (8 PSI) are also included in this table
3. Install with emitters facing up

THIN WALLED DRIP TAPE

Chapin-Drip Tape



TECHNICAL DATA

DELUXE Flow rates and spacing, 16 & 22 mm, 5-15 mil

Spacing		Outlets /100ft	Flow rates at 0.7 bar (10 PSI)				Flow rates at 0.6 bar (8 PSI)				Filtration mesh
inch	cm		gpm/100ft	lph/100m	gph/outlet	lph/outlet	gpm/100ft	lph/100m	gph/outlet	lph/outlet	
6	15	200	1.00	744	0.30	1.13	0.80	595	0.24	0.91	120
6	15	200	1.33	989	0.40	1.51	1.06	792	0.32	1.21	120
8	20	150	0.40	298	0.16	0.60	0.32	238	0.13	0.48	150
8	20	150	0.50	372	0.20	0.76	0.40	298	0.16	0.60	150
8	20	150	0.65	484	0.26	0.98	0.52	387	0.21	0.79	120
8	20	150	0.85	632	0.34	1.29	0.68	506	0.27	1.03	120
8	20	150	1.50	1,116	0.60	2.27	1.20	893	0.48	1.81	120
12	30	100	0.25	186	0.15	0.57	0.20	149	0.12	0.45	200
12	30	100	0.30	223	0.18	0.68	0.24	179	0.14	0.54	200
12	30	100	0.40	298	0.24	0.91	0.32	238	0.19	0.73	120
12	30	100	0.50	372	0.30	1.13	0.40	298	0.24	0.91	120
12	30	100	0.65	484	0.39	1.47	0.52	387	0.31	1.18	120
12	30	100	1.00	744	0.60	2.27	0.80	595	0.48	1.81	120
16	41	75	0.20	149	0.16	0.60	0.16	119	0.13	0.48	200
16	41	75	0.25	186	0.20	0.76	0.20	149	0.16	0.60	200
16	41	75	0.30	223	0.24	0.91	0.24	179	0.19	0.73	200
16	41	75	0.40	298	0.32	1.21	0.32	238	0.26	0.97	120
16	41	75	0.50	372	0.40	1.51	0.40	298	0.32	1.21	120
18	46	67	0.50	372	0.45	1.70	0.40	298	0.36	1.36	120
24	61	50	0.15	112	0.18	0.68	0.12	89	0.14	0.54	200
24	61	50	0.20	149	0.24	0.91	0.16	119	0.19	0.73	200
24	61	50	0.30	223	0.36	1.36	0.24	179	0.29	1.09	200
24	61	50	0.50	372	0.60	2.27	0.40	298	0.48	1.81	120

1. The above flow rates are available in 16 mm and 22 mm diameter, from 5 Mil to 15 Mil
2. Recommended operating pressure is 0.7 bar (10 PSI). Equivalent flow rates at 0.6 bar (8 PSI) are also included in this table
3. Install with emitters facing up

THIN WALLED DRIP TAPE

Chapin-Drip Tape

CHAPIN PACKAGING AND SHIPPING

Wall thickness (mil)	Coil length (m)	Coils per pallet #	Estimated quantity in container			
			20'		40'	
			Pallets	Coils	Pallets	Coils

BTF 16 mm (5/8")

4	4,573	12	20	240	39	468
5	3,659	12	20	240	40	480
6	3,049	16	20	320	38	608
7	2,561	16	20	320	40	640
8	2,287	16	20	320	40	640
10	1,829	16	20	320	40	640
12	1,524	16	20	320	40	640
15	1,200	16	20	320	40	640

BTF 22 mm (7/8")

6	2,287	16	20	320	40	640
7	1,982	16	20	320	40	640
8	1,677	16	20	320	40	640
10	1,372	16	20	320	40	640
13	1,067	16	20	320	40	640
15	915	16	20	320	40	640

DELUXE 16 mm (5/8")

6	3,049	28	10	280	20	560
8	2,287	28	10	280	20	560
10	1,829	28	10	280	20	560
12	1,524	28	10	280	20	560
15	1,220	28	10	280	20	560

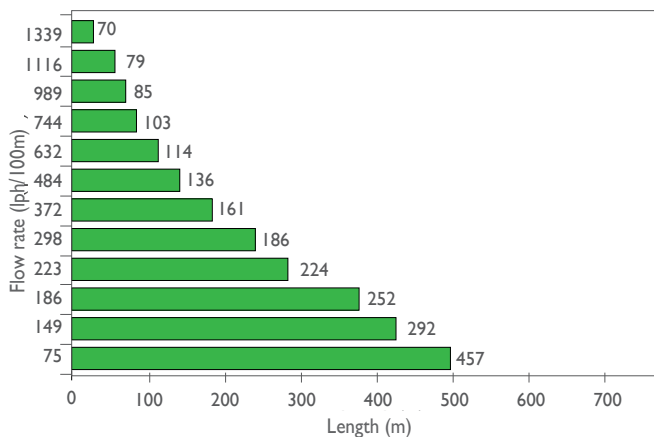
DELUXE 22 mm (7/8")

6	2,287	12	20	240	40	480
8	1,677	12	20	240	40	480
10	1,372	12	20	240	40	480
13	1,067	12	20	240	40	480
15	915	12	20	240	40	480

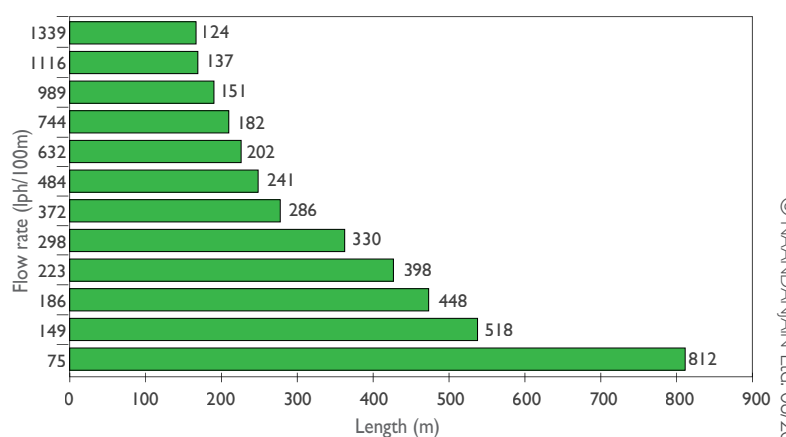


MAXIMUM LATERAL LENGTH (m)*

BTF & DELUXE 16 mm



BTF & DELUXE 22 mm

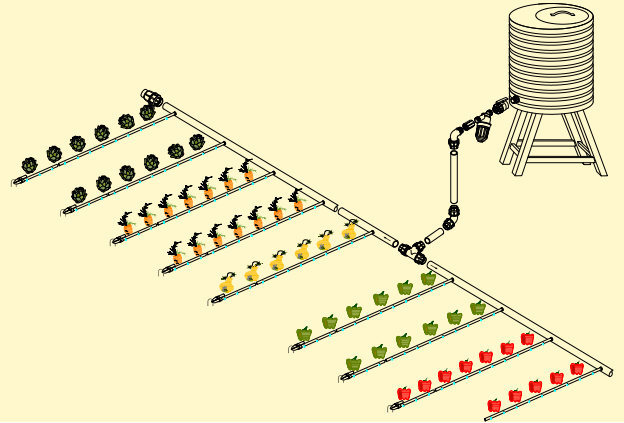


* EU - 90% uniformity, on flat ground, when inlet pressure is 0.7 bar

NDJ DripKit



Gravity-Powered Drip irrigation System



NDJ DripKit is the ideal solution for the irrigation and fertigation of small plots. This comprehensive kit allows small holders to achieve better yields, using their existing resources.

BENEFITS

- Increased yields
- Increases water use efficiency
- Improves water and fertilizer distribution
- Reduces manual labor
- Reduces evaporation and run-off
- Reduces weed growth
- Eliminates wetting of the foliage, reducing fungal diseases

APPLICATIONS

- Irrigation and fertigation of small plots up to 500 m²
- Adequate for all crops, such as vegetables, cereals, pulses, fruit trees, and herbs
- For open field or greenhouse installation

FEATURES

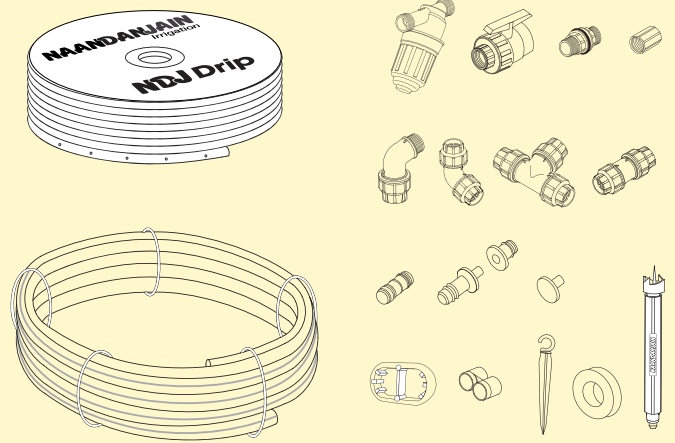
- Two different models: 250 m² & 500 m²
- Fully gravity-powered - no need for pump or power source
- Full kit supplied in one box
- Easy assembly and operation - no need for previous experience
- Fully modular - can be easily disassembled and stored
- High quality NDJ accessories & 12 mm dripline
- Resistant materials for application of soluble fertilizers
- Suits any plot shape within the size range
- Special male/female take-off for easy lateral plugging when only partial irrigation is required



NDJ DripKit

EACH DRIPKIT INCLUDES:

- Dripline coil for lateral spacing of 1.0 m with 30 cm dripper spacing
- 25 mm polyethylene submain
- Filter
- Valve
- All necessary fittings, punching tools and teflon tape
- Spare fittings for damage repair and for multiple choice of installation forms
- Picture instruction manual - suits speakers of all languages



TECHNICAL DATA AND INSTALLATION RECOMMENDATIONS:

- Recommended water tank volume (supplied upon order):
 - For 250 m² plot: 200-300 liters
 - For 500 m² plot: 400-600 liters
- Water tank must be at least 1.5 m above the plot level
- Maximum lateral length: 25 m

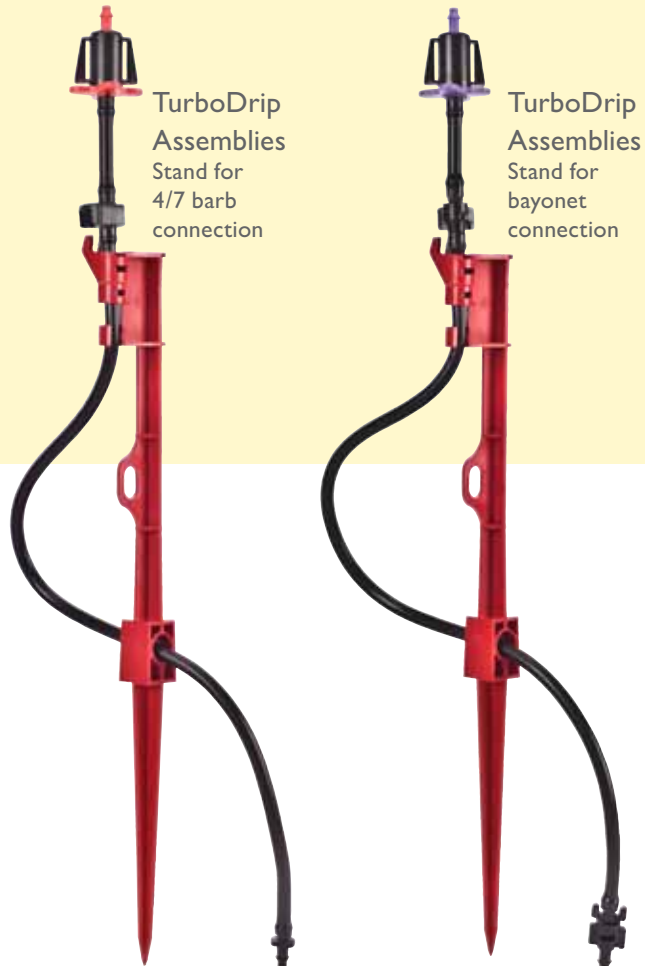
Product	Cat. #	Weight per kit	Kits per 20 ft container*	Kits per 40 ft container*
DripKit 500m ²	J67002J0010	20 kg	189	399
DripKit 250m ²	J67002J0000	14 kg	297	600

* Not Palletized

* Palletized shipment = 15% less units



TurboDrip



High flow PC dripper

APPLICATIONS

- Irrigation in desert condition where high daily quantities are required. Common for large tree gravity irrigated

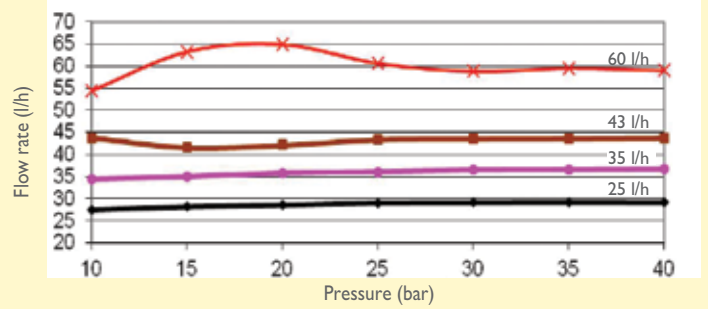
STRUCTURE AND FEATURES

- High flow rate self-compensated dripper
- Constant flow between 1.0 - 4.0 bar pressure
- Uniform irrigation and fertigation in all topographical conditions
- High resistance to clogging due to big and wide water passages
- Low maintenance emitter
- Easy for assembling and dismantling for maintenance purposes
- Made from Chemical resistant material
- High resistance against clogging

TECHNICAL DATA

- Recommended working pressure: 1.0 - 4.0 bar
- Flow rate: 27 - 60 l/h
- Filtration requirement: up to 35 l/h - 130 micron
up to 43 l/h - 200 micron





TurboDrip Assemblies
Stand for bayonet connection



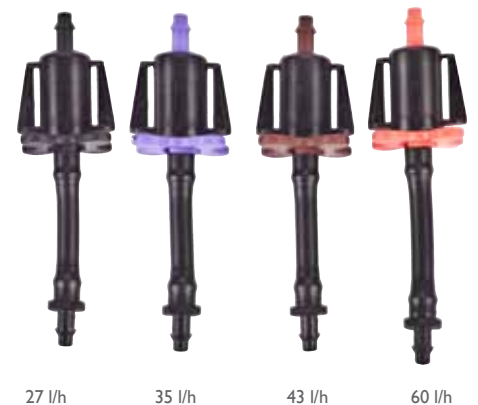
Description	Nozzle Color	Flow rate l/h	Item #
Spike 34 red			897917
4/7 PVC tube 100cm length + male bayonet connection + female bayonet connection			493161
Bayonet connector, female			497051
Turbo Drip 4/7 PVC tube 5cm length + male bayonet connection	Black	27	775058
	Violet	36	775054
	Brown	43	775050
	Red	60	775057



TurboDrip Assemblies
Stand for 4/7 barb connection



Description	Nozzle Color	Flow rate l/h	Item #
Spike 34 red			897917
4/7 PVC tube 90cm length + Fast-N-Fast + 4/7 barb connection			797229
Turbo Drip 4/7 PVC tube 5cm length + 4/7 barb connection	Black	27	774058
	Violet	36	774054
	Brown	43	774050
	Red	60	774057



ON-LINE PC BUTTON DRIPPERS

ClickTif HD



Heavy Duty Pressure-Compensating (PC) & Compensating Non-Leakage (CNL) on-line Button Dripper

Taper lock outlet

Barb outlet 3/5



APPLICATIONS

- Greenhouses, nurseries, orchards, Vineyards, landscapes and garden plots
- Pulse irrigation and irrigation in soilless conditions
- Prevents surplus drainage in low places (CNL model)

STRUCTURE AND FEATURES

- Heavy Duty range of drippers and accessories in various configurations
- Four dripper design elements minimize clogging:
 1. Protected water inlet
 2. Flushing mechanism of regulating diaphragm
 3. Strong turbulent flow in labyrinth enables continual cleaning and flushing
 4. Large water passages
- Color-coded for identification of discharge and model
- Standard 5 mm tapered outlet for working with connectors or barb outlet for 3/5 tube
- Chemical-resistant, high-grade plastic for precision and durability
- Two models available: PC and CNL (Compensating Non-Leakage)
- Unique "sharp edge" CNL design prevents dirt accumulation and ensures reliable operation under difficult conditions
- 6 different flow rates

TECHNICAL DATA

- Nominal discharge: 1.3, 2.0, 3.0, 4.0, 8.0, 12.0 l/h
- Regulating pressure range: 0.5-4.0 bar
- Very low CV
- Minimum recommended working pressure 1.0 Bar
- Non-Leakage (CNL): - Opening pressure: 8.0 m
- Closing pressure: 3.0 m
- Filtration Recommendation: 130 micron (120 mesh)

COLOR CODE



Maximum recommended lateral length (m) on flat ground*											
Dripper flow rate (l/h)	Inlet pressure (m)	16mm ID - 13.4mm KD= 0.4					20mm ID - 17.0mm KD = 0.15				
		Dripper spacing (cm)									
		20	40	60	80	100	20	40	60	80	100
1.3	10	84	132	172	208	240	131	205	279	335	385
	15	107	169	219	264	305	167	260	340	410	474
	20	123	194	252	304	352	205	319	413	498	573
	25	137	215	279	337	389	212	334	433	523	603
	30	148	232	302	364	420	229	360	469	564	653
	35	157	247	322	388	448	244	383	499	602	695
2	10	64	100	130	157	180	125	195	255	306	357
	15	81	127	165	199	230	134	209	271	325	375
	20	91	146	191	230	266	145	227	295	356	412
	25	103	162	211	254	294	160	252	328	394	455
	30	111	172	223	268	310	173	272	353	427	493
	35	119	187	243	293	339	184	290	378	454	525
3	10	49	77	100	120	138	77	119	155	187	215
	15	62	97	127	153	177	97	152	197	238	275
	20	71	113	147	177	204	112	174	228	273	317
	25	79	125	162	195	226	123	192	252	303	350
	30	86	135	175	211	244	132	208	272	328	378
	35	91	143	187	225	260	142	222	289	348	403
4	10	41	61	82	99	115	63	98	128	155	179
	15	51	81	105	127	147	81	126	163	197	228
	20	59	91	121	146	169	92	145	188	227	262
	25	66	103	134	162	187	103	160	208	251	290
	30	71	111	145	175	202	111	173	225	272	314
	35	79	123	160	194	224	118	184	240	289	335
8	10	25	41	51	61	71	40	62	82	98	114
	15	33	51	67	81	91	52	80	104	125	145
	20	38	59	77	91	107	58	93	120	144	168
	25	42	65	85	103	119	65	102	133	160	180
	30	45	71	93	111	129	71	111	142	172	200
	35	49	75	98	119	137	75	117	152	183	212
12	10	19	31	40	48	56	31	47	63	75	87
	15	25	39	51	62	71	39	63	80	96	111
	20	29	45	59	71	83	45	70	91	112	129
	25	32	50	65	79	91	50	78	103	123	142
	30	34	55	71	85	99	54	84	110	133	153
	35	37	58	75	91	105	57	95	118	142	163
40	39	61	80	96	111	61	97	124	149	172	

* Minimum pressure at lateral end: 0.5 bar for PC and 0.8 bar for CNL drippers
 ** Lateral length exceeding 800 m is not recommended
 *** It is better to restrict pressure losses in the lateral not to exceed 1.5 bar on a flat terrain

ClickTif HD Accessories

Drop guide



Catalog no.
802870

Straight labyrinth stake

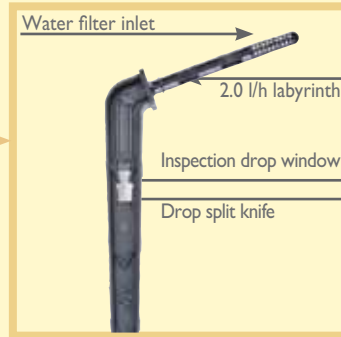


Catalog no.
802800

Elbow labyrinth stake



Catalog no.
802850



3/5 PVC or PE extension tube stabilizer stake



Stabilizer stake

Catalog no.
6466040000

DROP GUIDE

Use as single outlet for drop guide

LABYRINTH STAKES

Can be used as an independent dripper or to stabilize flow rate at multiple outlets

When working with multiple outlets:

1. Use labyrinth stakes to improve uniformity
2. Minimum recommended working pressure: 1 bar
3. Maximum recommended flow per outlet: 2.0 l/h
4. Minimum recommended flow per outlet:
 - Flat surface and uniform tube length - 0.5 l/h
 - On a slope or uneven elevation - 1.0 l/h

Recommended combinations:

Number of outlets	Dripper flow rate l/h					
	1.3	2	3	4	8	12
2	•	•	•	•	-	-
3	-	•	•	•	-	-
4	-	•	•	•	•	-
5	-	-	•	•	•	-
6	-	-	•	•	•	•

- Only on flat surface and with uniform tube length
- For all conditions, including slopes and uneven elevations

FLOW RATE VS. PRESSURE

Pressure (m)	Flow rate (l/h)	
	Elbow labyrinth stake Catalog no. 802850	Straight labyrinth stake Catalog no. 802800
5	1.5	1.6
10	2.0	2.3
15	2.5	2.8
20	3.5	3.2

3/5 mm outlet connectors



Catalog no.
802908

Catalog no.
802920

Catalog no.
802940



2, 4, 8 outlets with flow control stakes

Multi-level connectors



Catalog no.
802928

Catalog no.
802948

2.5 mm Punch

Special design for comfortable punching and inserting of ClickTif drippers



Catalog no.
897284



ON-LINE PC BUTTON DRIPPERS

J-SC-PC-Plus



Openable Pressure-compensating (PC) on-line button dripper

APPLICATIONS

- Recommended for orchards, fruit crops, vegetables, nurseries & flowers
- Ideal for undulating terrain and steep slopes

STRUCTURE AND FEATURES

- Dripper can be opened to facilitate easy cleaning
- Manufactured from virgin plastic for stable performance
- Silicone rubber diaphragm ensures consistent performance for longer period
- Narrow cross-shaped inlet acts as a filter
- Optional anti-bug cap prevents intrusion of insects
- Self-cleaning design ensures flushing at all times during operation
- Wide operating pressure-compensating range allows longer length of laterals

TECHNICAL DATA

- $CV \leq 5\%$
- Regulating pressure range: 1.0-3.0 bar
- Filtration requirement: 130 micron, (120 mesh)
Required punch diameter: 2.9 mm

TECHNICAL DATA

Cap color and insert	Discharge (l/h)	Emitter exponent (x)	Flow coefficient (k)
Yellow	2.2	0.04	2.4
Black	4.2	0.03	4.2
Blue	8.2	0.08	7.5



ON-LINE NON-PC BUTTON DRIPPERS

J-Turbo KeyPlus



Openable on-line button dripper

APPLICATIONS

- Recommended for orchards, fruit crops, plantations, nurseries and landscapes

STRUCTURE AND FEATURES

- Dripper can be opened to facilitate easy cleaning
- Manufactured from virgin plastic for stable performance
- Turbulent flow path with wide cross-sectional area ensures clog resistance
- Extended outlet facilitates use of PE extension tube or vinyl tube
- Narrow cross-shaped inlet act as a filter
- Colored cap facilitates easy identification of flow rate

TECHNICAL DATA

- $CV \leq 3\%$
- Recommended operating pressure: 0.5-2.5 bar
- Filtration requirement: 100 micron, (150 mesh)
- Required punch diameter: 2.9 mm

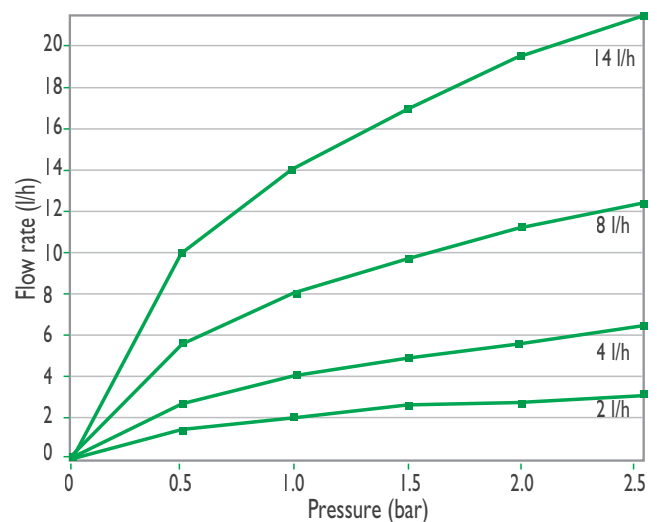
TECHNICAL DATA AND COLOR CODE

Cap color and insert	Discharge* (l/h)	Emitter exponent (x)	Flow coefficient (k)
Yellow	2	0.48	2.0
Black	4	0.48	4.0
Blue	8	0.48	8.0
Green	14	0.48	14.0

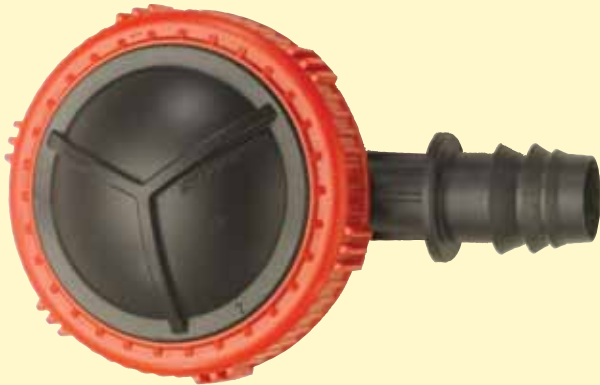
* At operating pressure of 1 bar

FLOW VS. PRESSURE

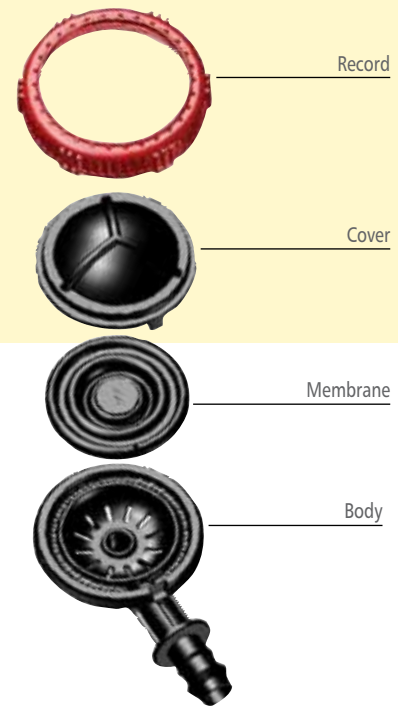
Pressure (bar)	Flow rate (l/h)			
	2 (l/h)	4 (l/h)	8 (l/h)	14 (l/h)
0.5	1.4	2.9	5.7	10.0
1.0	2.0	4.0	8.0	14.0
1.5	2.4	4.9	9.7	17.0
2.0	2.8	5.6	11.2	19.5
2.5	3.1	6.2	12.4	21.7
3.0	3.4	6.8	13.6	23.7
3.5	3.6	7.3	14.6	25.5



Lateral Flush Valve



Automatic lateral flush valve for efficient dripline maintenance



APPLICATIONS

- For surface and subsurface drip irrigation
- Automatically flushes the drip lateral at the beginning of every irrigation
- Effective in water quality conditions that require frequent flushing
- Saves manual labor

STRUCTURE AND FEATURES

- Robust, simple structure with no metal parts
- High-quality, chemical resistant materials
- Large water passages for maximum reliability
- Large variety of end connections to suit all dripline types (see table)
- Red ring for easy identification and inspection
- Possible to open and clean

TECHNICAL DATA

- Operating pressure: 0.5-3.0 bar
- Flushing time: 15-25 seconds
- Flush volume: 2-3 liters

Installation: Please install flush valve at the same level or above the last dripper, with the red cap facing up.

PRODUCT RANGE

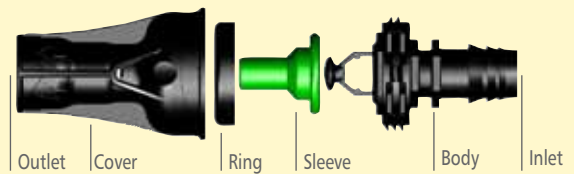
Description	Catalog No.
Thread 1/2" male	790701
Thread 3/4" male	790702
Barb 16 mm (for W.T 0.9-1.2mm, ID 13.9)*	790716
Barb 17 mm (for W.T 0.9-1.2mm, ID 14.4)*	790717
Barb 20 mm (for W.T 0.9-1.2mm, ID 17.7)*	790720
Tape 17 mm (5/8") (for W.T 10-18mil, ID 15.4-16mm) black ring	790727
Tape 17 mm (5/8") (for W.T 25 mil, ID 15.4-16mm) brown ring	790728
Tape 17 mm (5/8") (for W.T 35 mil, ID 15.4-16mm) red ring	790729

*All barb connectors come with a free snap clip. Use it to secure the flush valve in place



Lateral LPD

Dripline leakage prevention device



APPLICATIONS

Installed at the beginning of drip laterals

- Prevents draining of sub-main and main pipes after system shut-off
- Improves irrigation uniformity by synchronizing lateral opening and closure along the sub-main
- Reduces system filling time
- Can reinforce CNL driplines and button drippers where slopes exceed the closing pressure of CNL

Installed along the lateral

- In steep slopes, it improves water distribution during lateral draining

STRUCTURE AND FEATURES

- Simple, plastic 4 - part structure
- Available with a large variety of end connections
- Outlet is 1/2" female-threaded NPT in all options
- Low head loss
- Recommended working pressure 1.4-4 bar

OPERATING PRESSURE

- Opening pressure - 14 m
- Closing pressure - 6 m

TECHNICAL DATA

Lateral Discharge (l/h)	Head Loss (m)
250	0.1
500	0.2
750	0.8
1000	1.1
1250	1.3
1500	2.6

PRODUCT RANGE

Inlet* (integral)*	Catalog no.	Outlet connector	Catalog no.
Barb 16 mm (for W.T 0.9-1.2 mm, ID 13.9 mm)	790616	1/2" male x barb 16 mm	6424040610
Barb 17 mm (for W.T 0.9-1.2 mm ID 14.4 mm)	790617	1/2" male x barb 17 mm	6424040620
Barb 20 mm (for W.T 0.9-1.2 mm ID 17.7 mm)	790610	1/2" male x barb 20 mm	6424040630
Tape 17 mm (5/8") (for W.T 10-18 mil ID 15.4-16.2 mm) black ring	790627	1/2" male x tape 17 mm	6425041003
Tape 17 mm (5/8") (for W.T 25 mil, ID 15.4-16.2 mm) brown ring	790628	1/2" male x tape 17 mm	6425041003
Tape 17 mm (5/8") (for W.T 35 mil, ID 15.4-16.2 mm) red ring	790629	1/2" male x tape 17 mm	6425041003
Thread 1/2" male	790601		
Thread 3/4" male	790602		
Hose Thread 3/4" USA Version	790630		

*All outlets are thread NPT 1/2" female

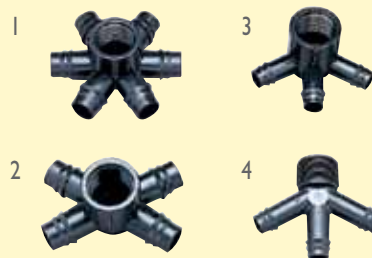


Connectors

BARB CONNECTORS FOR: NAANPC, AMNONDRIP, TIFDRIP & TALDRIP 16, 20 mm

Barbed/Threaded Multi-Outlets

	Description	Item # 20 mm	Item # 16 mm	Qty/Bag
1	6-way 3/4" female	6424045020	6424045010	50
2	4-way 3/4" female	6424234000	6424044010	
3	3-way elbow 3/4" female	6424042050	6424042010	
4	3-way straight 3/4" male	6424043030	6424043010	



Barbed/Threaded Connectors

	Description	Item # 20 mm	Item # 16 mm	Item # 12 mm	Qty/Bag
1	Tee barb 3/4" female	6424040230	6424040210	6424040205	50
2	Tee barb 3/4" male	6424040050	6424040040	6424040010	
3	Y connector 3/4" male	6416040600	6416040200	6416040000	
4	Barbed connector 3/4" male	6424040635	6424040615	6424040605	100
4	Barbed connector 1/2" male	6424040630	6424040610	6424040005	
5	Elbow barb 3/4" male	6424040450	6424040445	6424040410	



Barbed Connectors

	Description	Item #	Item # 12 mm	Qty/Bag
1	Barbed connector silver ring 20 x 20	483222		100
2	Barbed connector 12 x 12		483121	
2	Barbed connector 16 x 16	483161		
2	Barbed connector 17 x 17	6423040620		
3	Barbed connector 12 x 16		6423040800	
3	Barbed connector 20 x 12		6423040840	
3	Barbed reducer 20 x 17	6423040830		
3	Barbed reducer 20 x 16	6423040850		
3	Barbed reducer 17 x 16	6423040820		
		Item # 20 mm	Item # 16 mm	
4	Tee barbed	6423040030	6423040010	6423040007
5	Tee reducer barbed 12x16x12			6423040200
5	Tee reducer barbed 16x12x16			6423040210
5	Tee reducer barbed 20x16x20	6423040250		
6	Elbow barb	6423040440	6423040410	6423040415
7	Star 3-way	-	6423049900	



Start Connectors & Accessories

	Description	Item # 20 mm	Item # 16 mm	Item # 12 mm	Qty/Bag
1	Quick start for PE & PVC	6431041000	6431040400	6431040240	100
2	Grommet for quick start for PVC	6431999900	6431999900		
3	End line	6419300420	6419300410	6419040415	
4	Snap clip	6720150825	6720150815		
5	Vine drip clip	809000			
6	Dripper plug for AmnonDrip & TopDrip*	J67202J9901	J67202J9900		

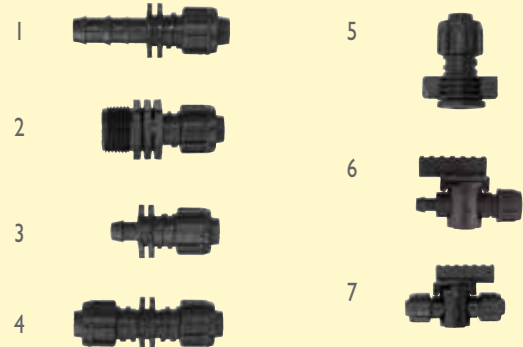


* Installation must be done under water pressure
For above 0.63 mm wall thicknesses
Fits a hole with a 1.6-1.9 mm hole size (in the narrow part of the hole)

Connectors

FITTINGS FOR TALDRIP, TOPDRIP & CHAPIN 16;17 & 22;23 TAPE LOCK, 4-35 MIL

	Description	Item #	Qty/Bag
1	Drip Tape adaptor 12 x 12 barb	J64252J0003	1000
1	Tape 16/17 x 16 barb	6425040438	800
1	Tape 22/23 x 20 barb	6425041017	700
2	Tape 16/17 x 3/4" M	6425041005	1000
3	Start conn. & grommet	6431040402	700
4	Tape 12x 12	J64252J0004	1000
4	Tape 16/17 x 16/17	6425040436	800
4	Tape 22/23 x 22 /23	6425041015	400
5	Start conn. for layflat	6431040403	300
6	PE start conn. & grommet & valve	6431040401	300
7	Tape 16/17 x 16/17 valve	6425040015	250

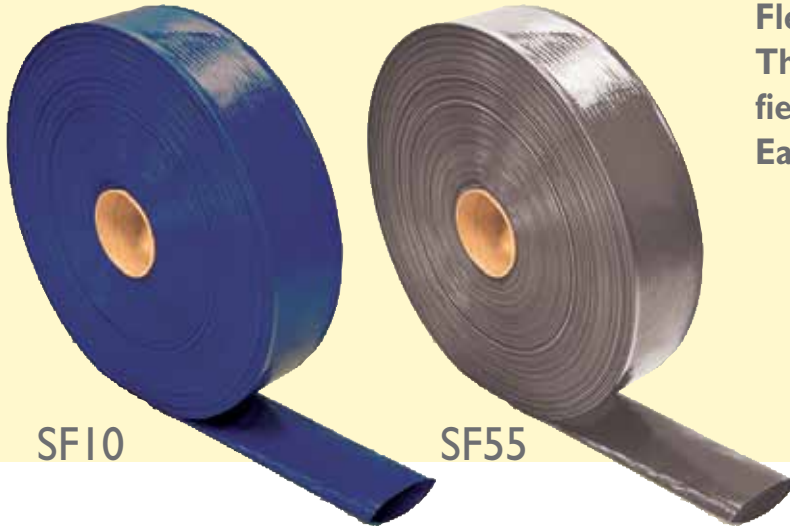


RING CONNECTORS: THIN-WALLED 16; 17MM, 10-35MIL FOR TALDRIP & TOPDRIP

	Description	Item # Black 6-18 mil	Item # Brown 25 mil	Item # Red 35 mil	Qty/ Bag
1	Start connector 16/17	6431301505	6431302005	6431303005	100
2	Connector 16/17 x 16 barb	6425300638	6425300640	6425300642	
3	Tee 16/17 x 16 x 16/17 Tee 17 x 20 x 17	6425300606 6425300608	6425300610 6425300612	6425300614 6425300616	
4	Connector 16/17 x 16/17	6425300646	6425300648	6425300650	
5	End line 16/17	6425300655	6425300656	6425300658	
6	Ring for connector Black: 6-18 mil Brown: 25 mil Red: 35 mi	6425300600	6425300602	6425300604	
7	Grommet for quick start for PVC	6431999900	6431999900	6431999900	100 / 1000



Lay Flat



Flexible PVC Hose

The perfect water delivery solution for open field crops

Easy to handle portable irrigation system

APPLICATIONS:

- For Irrigation as water supply main pipe or as a submain with start connectors
- Also for, Mines, mine leaching systems

FEATURES AND ADVANTAGES

- Can be used in extremely high (up to 10 Bar) working pressure (According to pipe diameter and selected connectors)
- Robust and durable reinforced 3-ply Polyester Yarns
- Low expansion and zero axial elongation
- Reduced freight and storage costs - due to flat and compact coil design
- Reduced head losses - due to enlarged internal diameters
- Easy to layout, retrieve and move from one installation to another
- Enables tractors activity and crossing over the hose (when drained)
- Full package solution - Pipes, Couplings, Tightening clamps, Punchers, Start connectors, Valves
- Lay Flats with pre assembled outlets at required spacings, can also be supplied

SPECIFICATIONS:

- Available - in 1.5", 2", 3", 4", 6", 8"
- Coil length - 100 meters (special order for other length)
- Temp use range- -20°C to 76°C (-5°F to 170°F). When Temperature is -15°C and colder, please DO NOT handle or transport hoses.
- If temperature exceeds 43°C (110°F) the maximal working pressure will decrease















TECHNICAL DATA

Code	Nominal size (inch)	Max. Working pressure (BAR) as supply line without start conn.	Max. Working pressure (BAR) as sub main with start conn.	Wall thickness (mm)	Internal diameter (mm*)	Meter/roll	Kg/roll
Grey - SF55							
6599600209	1.5"	10	4.0	1.60	38.1	100	29.8
6599600204	2"	10	4.0	2.21	50.8	100	53.6
6599600206	3"	10	2.5	2.54	76.2	100	96.2
6599600228	4"	6.9	2.5	2.89	101.6	100	138.9
6599600229	6"	6.9	*	3.71	152.4	100	248

Blue - SF10							
6599600212	1.5"	5.5	1.5	1.50	38.1	100	27.8
6599600211	2"	5.5	1.5	1.50	50.8	100	36.2
6599600207	3"	5.5	1.5	1.60	76.2	100	53.6
6599600208	4"	4.8	1.0	1.70	101.6	100	78.4
6599600231	6"	4.1	*	1.90	152.4	100	128.5
6599600232	8"	2.4	*	2.21	203.2	100	193.5





*Not recommended for sub main


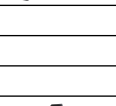
Lay Flat



Quick Couplings		
Description	Item #	Picture
CamLock Female 2" X 2" M thread BSP	6405600836	
CamLock Female 3" X 3" M thread BSP	6405600852	
CamLock Female 2" X 2" Hose	6405600838	
CamLock Female 3" X 3" Hose	6405600854	
CamLock Male 2" X 2" Hose	6405600842	
CamLock Male 3" X 3" Hose	6405600021	
CamLock Male 2" X 2" M thread BSP	6405600844	
CamLock Male 3" X 3" M thread BSP	6405600845	
CamLock Female 2" X 2" M thread BSP	6405600836	
CamLock Female 3" X 3" M thread BSP	6405600852	
CamLock Male 2" X Plug	6405600848	
CamLock Male 3" X Plug	6405600864	
CamLock Female 2" X Plug	6405600846	
CamLock Female 3" X Plug	6405600862	

Barb Connectors		
Description	Item #	Picture
Straight connector 2" X 2"	6405600019	
Straight connector 3" X 3"	6405600018	
Straight connector 4" X 4"	6405600017	
Reducer 3" X 2"	6411999901	
Reducer 4" X 3"	6411999900	
Adaptor 2" M thread BSP X 2" Hose	6405600062	
Adaptor 3" M thread BSP X 3" Hose	6405600063	
Adaptor 4" M thread BSP X 4" Hose	6405600065	
Adaptor 3" M thread BSP X 4" Hose	6405600064	
Adaptor 2" M thread BSP X 3" Hose	6405600066	
Plug 2"	6419590030	
Plug 3"	6419590031	
Plug 4"	6419590032	
Connector LF 3"x3" Saddle 75	6405600046	
Adaptor LF 3"x2" male thread	6405600028	
Adaptor LF 3" to Alum.3" Hook	6405600038	
Saddle 2 bolts 75 x 3/4"	6430020070	
Double saddle 4 bolts 75 x 1.5"	6430020810	



Tightening clamps		
Description	Item #	Picture
2" steel tightening clamp	6405600056	
3" steel tightening clamp	6405600000	
4" steel tightening clamp	6405600002	
2"- 4" wide steel tightening clamp		
Available upon request		

Punchers		
Description	Item #	Picture
14 mm puncher for 16;17 mm start connectors	6130210432	
19 mm puncher for 22;23 mm start connectors	6130210430	

Start connectors		
Description	Item #	Picture
Start connector 3/4" (14 mm)	6431049920	
Start connector 16, 17 mm for thin walled drip lines	6431040403	



LANDSCAPE - THICK WALLED NON-PC CYLINDRICAL DRIPLINE

Jardiline



Heavy-duty 16 mm dripline for landscape irrigation



APPLICATIONS

- On the surface or under mulch installations
- Shrubs, trees and flower beds
- For flat surfaces and narrow planting areas

STRUCTURE AND FEATURES

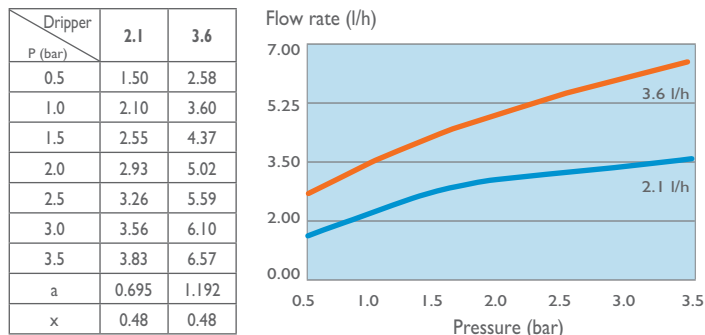
- Strong yet flexible pipe structure with heavy-duty cylindrical drippers
- Cascade labyrinth with wide water passages and a self-cleaning effect
- Double water inlets and outlets for extra clogging resistance
- Brown, UV-protected color - blends with the ground or mulch colors
- Also available in purple for marking the use of non-potable water

Available also in purple for a minimum order of 40K m. And add Purple dripline picture

TECHNICAL DATA

- Dripper flow rates: 2.1 & 3.6 l/h (at 1.0 bar pressure)
- Dripper spacing: 33, 40, 50 cm (other spacing available on request)
- Maximum operation pressure: 3.5 bar
- Internal diameter (ID): 13.9 mm (suitable for all standard 16 mm barb fittings)
- Wall thickness: 1.0 mm
- Coil lengths: 50, 100, 200 and 400 m

FLOW RATE VS. PRESSURE



MAXIMUM LATERAL LENGTH (m) AT 10% FLOW RATE VARIATION AND 1 BAR INLET PRESSURE*

Dripper spacing (cm)	Dripper flow rate (l/h)	
	2.1	3.6
33	65	46
40	76	54
50	90	64

* On flat surface

PACKAGING AND SHIPPING

Coil length	Coils per pallet	Pallets per 20ft container	Coils per 20ft container	Total meters 20 ft container	Pallets per 40 ft. HC container	Coils per 40 ft. HC container	Total meters 40 ft. HC container
50	36	20	720	36000	40	1440	72000
100	40	10	400	40000	20	800	80000
200	Non Palletized	-	264	52000	-	558	111600
400		-	165	66000	-	350	14000



LANDSCAPE - THICK WALLED PC CYLINDRICAL DRIPLINE

Super Jardiline



Pressure-compensating, 16 mm heavy-duty dripline for landscaping applications



APPLICATIONS

- On surface or under mulch installations
- Shrubs, trees, turf and flower beds
- Irrigation in slopes and variable topography
- For high uniformity of water distribution in large areas

STRUCTURE AND FEATURES

- Accurate pressure-compensation results in uniform dripper flow rate under all pressures within 0.5-3.5 bar
- Strong yet flexible pipe structure with heavy-duty cylindrical drippers
- Cascade labyrinth with wide water passage and a self-cleaning effect
- Double water inlets and outlets for extra clogging resistance
- Brown, UV-protected color - blends with the ground or mulch colors
- Also available in purple for marking the use of non-potable water



Available also in purple for a minimum order of 40K m. And add Purple dripline picture

TECHNICAL DATA

- Dripper flow rates: 1.6 and 2.2 l/h
- Pressure - compensating range: 0.5-3.5 bar
- Dripper spacing 33, 40, 50 cm (other spacing available on request)
- Maximum operation pressure: 3.5 bar
- Internal diameter (ID): 13.9 mm (suitable for all standard 16 mm barb fittings)
- Wall thickness 1.0 mm
- Coil lengths: 50, 100, 200 and 400 m

MAXIMUM LATERAL LENGTH*

Flow rate (l/h)	Inlet pressure (bar)	Dripper spacing (cm)		
		33	40	50
1.6	3.0	150	180	230
	2.0	120	160	180
	1.0	80	100	120
2.3	3.0	120	150	180
	2.0	90	120	140
	1.0	60	80	100

* On flat surface, minimum pressure at lateral end = 0.5 bar

PACKAGING AND SHIPPING

Coil length	Coils per pallet	Pallets per 20 ft container	Coils per 20 ft container	Total meters 20 ft container	Pallets per 40 ft. HC container	Coils per 40 ft. HC container	Total meters 40 ft. HC container
50	36	20	720	36000	40	1440	72000
100	40	10	400	40000	20	800	80000
200	Non Palletized	—	264	52000	—	558	111600
400		—	165	66000	—	350	14000

Drip Irrigation System Maintenance

ACID TREATMENT

Application of acid is recommended as part of a routine maintenance procedure. Acid injection reduces clogging caused by low solubility salts, such as calcium carbonate. The following recommendations are for hydrochloric acid 33% or phosphoric acid 85%.

Determining the acid quantity to be injected:

Take a 10 liter bucket and gradually start adding acid in small portions and measuring the accepted pH. Once you reach the required pH of 2.0, calculate the amount of acid required for receiving this value in your system by multiplying the acid quantity by 100 and injecting this amount per 1 m³ of the system discharge.

IMPORTANT

While preparing the acid solution Always add the acid to the water and not vice versa.

Treatment instructions:

1. Treatment should be carried out 1-2 times during the irrigation season or when system discharge drops by 5%
2. Flush all submains and laterals before starting the treatment
3. Check the discharge of the system before the treatment so you can later compare this with the discharge of the treated system
4. Solution preparation: The solution volume (water + acid) should be equal to one quarter (1/4) of the hourly discharge of the injector. This way the injection will last for 15 minutes
We recommend working with the maximum injector discharge in order to avoid working with a highly concentrated solution
5. Start the injection only after the system is full of water and the drippers are emitting
6. Control: Using a litmus indicator strip, check the pH at the furthest lateral for residual acid (pH 2.0). A second application is recommended if no residual acid is detected
7. Inject during 15 minutes
8. Continue irrigation for 30-60 minutes to ensure the complete flushing of the system
9. Check the discharge of the system

Example:

- Acid needed for receiving pH (2.0) in the 10 liter bucket = 12 cc
- 12 cc X 100 = 1200 cc = 1.2 liters
- Inject 1.2 liters of acid per 1 m³ of the system discharge
- System discharge (of the treated sector) = 30 m³/h
- System discharge during the 15 minute treatment = 7.5 m³
- Acid required = 1.2 liter X 7.5 = 9 liter
- Max. injector discharge = 200 l/h
- Total solution volume required (1/4 of 200 liters) = 50 liters
- 50 liters of solution = 9 liters of acid + 41 liters of water
- Injection time = 15 minutes (50 liters injected with a 200 l/h injector)

LATERAL FLUSHING

Lateral flushing flushes out debris that accumulates in the dripline and can eventually clog the dripper's water inlet or labyrinth.

During the irrigation season, laterals should be flushed every 2-3 weeks. Flushing is done by opening the lateral end for 30-60 seconds until the water coming out of the lateral is clear.

Flushing with a flushing submain or with a NaanDanJain Lateral Flush Valve will reduce costs of manual labor and guarantee frequent flushing.



Drip Irrigation System Maintenance

CHLORINATION

Chlorine is a biocide that kills micro organism: bacteria, algae etc. Chlorine injection will reduce clogging and help keeping the irrigation lines clean. It is recommended as an intermittent treatment or as an ongoing preventive treatment in systems that use water that contains a high concentration of organic materials.

The most commonly used material is sodium hypochlorite 10-12%.

Treatment instructions:

1. Find out the required dose, treatment frequency and duration. Refer to the chart below:

Application method	Residual free chlorine concentration (ppm)		Treatment frequency	Duration (hr)
	At point of injection	At end of lateral		
Continuous	3-5	1.0	Every irrigation	Through all the irrigation time or at the last hour of the irrigation
Intermittent	5-10	1.0	Whenever needed, according to water quality	1.0 hour

Water at pH above 7.5 reduce the chlorination effectiveness. Acidified to a pH of 6.5 will maximize the effectiveness of the chlorine treatment

Contact Time:

A minimum contact time of 30 min. is required for the effective chlorine treatment in order to kill the microorganism. This time is measured from the moment you detect free chlorine in the emitters.

Concentration of free chlorine:

Measure active free chlorine concentration (residual chlorine), using a color comparison set. This is the same set that is used to monitor the chlorine level in swimming pools. The residual chlorine concentration depends on the water chlorine demand.

2. Flush all submains and laterals before starting the treatment.
3. Dosing and injecting: Use the following formula to determine injection rate and stock solution concentration:

$$\frac{(\text{System discharge m}^3/\text{h}) \times (\text{chlorine concentration PPM at injection point})}{(\text{Concentration of the stock solution } \%) \times (10)} = (\text{Injector discharge l/h})$$

If the injector can be manipulated to inject at different discharge levels, you may do so, according to your requirements. If not, you can adapt the stock solution concentration.

Adapting the stock solution concentration to a fixed injection rate:

Example:

- System discharge (of the treated sector) = 30 m³/h
- Chlorine concentration required at injection point = 10 PPM
- Chlorine quantity required: 10ppm*30 m³/hr/10%/10= 3.0 liter
- Injector discharge = 200 l/h
- Solution preparation: Mix the 3.0 liter with 197 liter of water. This volume will be injected now in 1.0 hr at 10ppm of chlorine

Warning:

Active Chlorine is dangerous. Follow the manufacture instruction.

Storage:

Sodium hypochlorite should be stored under a shaded area in a clean dark tank, without any fertilizers residues. Concentration will degrade over time.



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