



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.

Contents

AGRICULTURE

| | |
|-------------------|---|
| Introduction..... | 3 |
|-------------------|---|

Inline drippers

Pressure-compensating

Thick-walled driplines

| | |
|-----------------|-------|
| AmnonDrip..... | 4-10 |
| TopDrip HD..... | 11-15 |
| NaanPC..... | 16-19 |

Thin-walled driplines

| | |
|--------------------|-------|
| TopDrip..... | 20-26 |
| Naan PC light..... | 27 |

Non Pressure-compensating

Thick-walled driplines

| | |
|--------------|-------|
| TifDrip..... | 28-29 |
|--------------|-------|

Thin-walled driplines and tapes

| | |
|-----------------------|-------|
| TalDrip..... | 30-31 |
| Chapin-Drip Tape..... | 32-35 |

| | |
|------------------|-------|
| NDJ DripKit..... | 36-37 |
|------------------|-------|

Online button drippers

| | |
|------------------------------|-------|
| TurboDrip..... | 38-39 |
| ClickTif HD..... | 40 |
| ClickTif HD Accessories..... | 41 |
| J-SC-PC-Plus..... | 42 |
| J-TurboKey Plus..... | 43 |

Accessories (for drip systems)

| | |
|--------------------------|-------|
| Lateral Flush Valve..... | 44 |
| Lateral LPD..... | 45 |
| Connectors..... | 46-47 |

| | |
|----------------------|-------|
| LayFlat | 48-49 |
|----------------------|-------|

LANDSCAPE DRIP LINES

| | |
|---------------------|----|
| JardiLine..... | 50 |
| SuperJardiLine..... | 51 |

| | |
|----------------------------------|-------|
| System Maintenance. | 52-53 |
|----------------------------------|-------|



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.

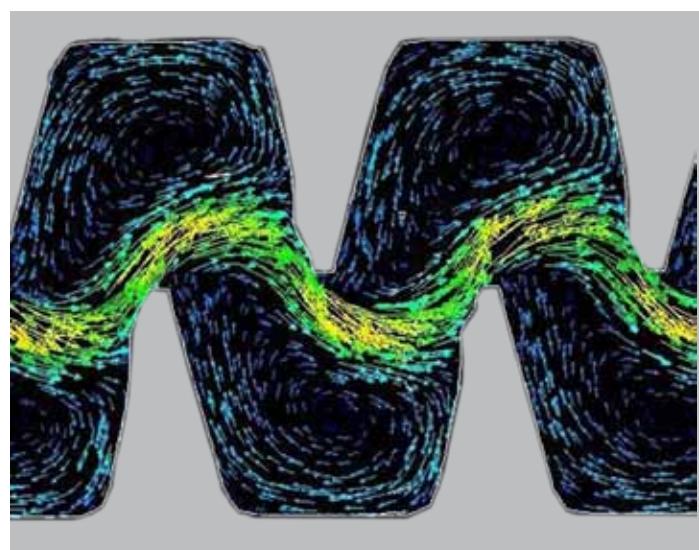
EFFICIENT SELF-CLEANING

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

AmmonDrip 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

AmmonDrip PC



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

AmmonDrip CNL



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

AmmonDrip PC AS



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



TECHNICAL DATA

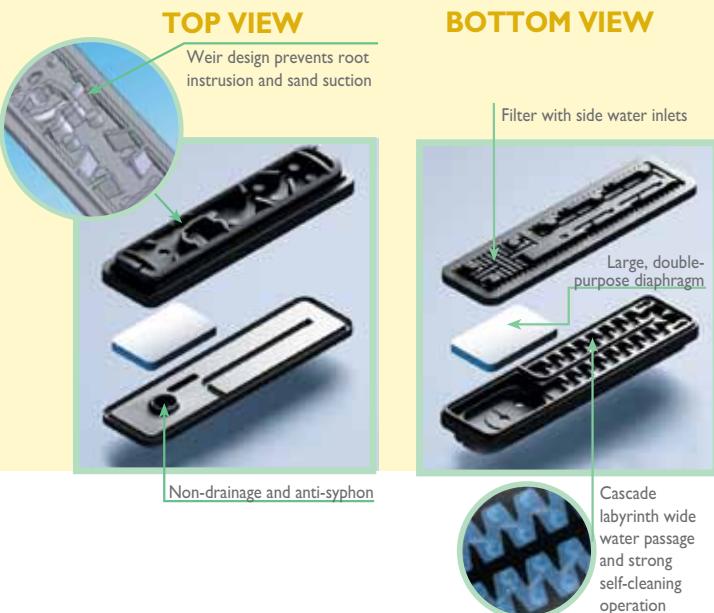
- Flow rates: 0.5, 1.1, 1.6, 2.0, 2.2, 3.8 l/h
- CNL: Opening pressure - 1 bar
Closing pressure - 0.2 bar
- AS: Opening pressure - 0.5 bar
- Pressure regulating range:
PC & AS models - 0.5-4.0 bar
PC CNL - 1.0-4.0 bar
- Recommended filtration: 130 micron (120 mesh)

THICK-WALLED PC FLAT DRIPLINE

AmmonDrip 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 | ● | |
| | 1.20 | 47 | 17.00 | 14.4 | 3.5 | 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 | | ● |



AMMONDRIP 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

AmmonDrip 16mm**HEAD LOSS (m) IN RELATION TO LATERAL LENGTH (m), DRIPPER FLOW RATE AND SPACING (cm)**

| AmmonDrip 16mm 0.5-l/h W.T 0.9-1.15 mm ID 13.9 | | | | | | | | AmmonDrip 16, 1.1l/h, W.T 0.9-1.15mm, ID 13.9 | | | | | | | | AmmonDrip 16, 2.0l/h, W.T 0.9-1.15mm, ID 13.9 | | | | | | | | | | | | | | | |
|--|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|-----|--|--|--|--|--|--|
| 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 | | | | | | | | |
| 20 | | | | | | | | 20 | 0.2 | 0.1 | | | | | | 20 | 0.3 | 0.1 | 0.1 | | | | | | | | | | | | |
| 40 | 0.3 | 0.1 | 0.1 | | | | | 40 | 0.9 | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | | 40 | 1.8 | 0.7 | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | | | | | | | | |
| 60 | 0.9 | 0.3 | 0.2 | 0.1 | 0.1 | | | 60 | 2.8 | 1.1 | 0.6 | 0.3 | 0.2 | 0.2 | 0.1 | 60 | 5.2 | 2.1 | 1.1 | 0.6 | 0.4 | 0.3 | 0.1 | | | | | | | | |
| 80 | 1.9 | 0.7 | 0.4 | 0.2 | 0.1 | 0.1 | | 80 | 6 | 2.3 | 1.2 | 0.7 | 0.5 | 0.4 | 0.2 | 80 | 11.4 | 4.5 | 2.3 | 1.4 | 1 | 0.7 | 0.3 | | | | | | | | |
| 100 | 3.4 | 1.3 | 0.7 | 0.4 | 0.3 | 0.2 | 0.1 | 100 | 11 | 4.3 | 2.2 | 1.4 | 0.9 | 0.6 | 0.3 | 100 | 20.8 | 8.2 | 4.3 | 2.6 | 1.7 | 1.2 | 0.6 | | | | | | | | |
| 120 | 5.5 | 2.2 | 1.1 | 0.7 | 0.5 | 0.3 | 0.1 | 120 | 18 | 7.1 | 3.7 | 2.2 | 1.5 | 1.1 | 0.5 | 120 | 35 | 13.5 | 7 | 4.3 | 2.9 | 2.1 | 1 | | | | | | | | |
| 140 | 8.4 | 3.3 | 1.7 | 1 | 0.7 | 0.5 | 0.2 | 140 | | 10.7 | 5.6 | 3.4 | 2.3 | 1.6 | 0.8 | 140 | | 20.4 | 10.7 | 6.5 | 4.4 | 3.1 | 1.5 | | | | | | | | |
| 160 | 12.1 | 4.7 | 2.4 | 1.5 | 1 | 0.7 | 0.3 | 160 | | 15.4 | 8 | 4.9 | 3.3 | 2.4 | 1.1 | 160 | | 15.4 | 9.4 | 6.4 | 4.6 | 2.2 | | | | | | | | | |
| 180 | 16.6 | 6.4 | 3.3 | 2 | 1.4 | 1 | 0.5 | 180 | | 21.2 | 11.1 | 6.8 | 4.6 | 3.3 | 1.5 | 180 | | 21.2 | 13 | 8.8 | 6.4 | 3 | | | | | | | | | |
| 200 | | 8.6 | 4.4 | 2.7 | 1.8 | 1.3 | 0.6 | 200 | | 14.8 | 9 | 6.1 | 4 | 2.1 | | 200 | | | 17.4 | 11.8 | 8.4 | 4 | | | | | | | | | |
| 220 | | 11.1 | 5.8 | 3.5 | 2.3 | 1.7 | 0.8 | 220 | | 19.2 | 11.7 | 7.9 | 5.7 | 2.7 | | 220 | | | 22.6 | 15.3 | 11 | 5.3 | | | | | | | | | |
| 240 | | 14 | 7.3 | 4.4 | 3 | 2.1 | 1 | 240 | | 24.3 | 14.9 | 10.1 | 7.2 | 3.4 | | 240 | | | | 19.5 | 14 | 6.7 | | | | | | | | | |
| 260 | | 17.5 | 9.1 | 5.5 | 3.7 | 2.7 | 1.2 | 260 | | | 18.5 | 12.5 | 9 | 4.3 | | 260 | | | | 24.3 | 17.5 | 8.3 | | | | | | | | | |
| 280 | | | 11.1 | 6.8 | 4.5 | 3.3 | 1.5 | 280 | | | 22.7 | 15.3 | 11.1 | 5.2 | | 280 | | | | 21.5 | 10.2 | | | | | | | | | | |
| 300 | | | 13.4 | 8.2 | 5.5 | 3.9 | 1.9 | 300 | | | | 18.6 | 13.4 | 6.3 | | 300 | | | | 25.9 | 12.4 | | | | | | | | | | |
| 320 | | | 16.1 | 9.8 | 6.6 | 4.7 | 2.2 | 320 | | | | 22.2 | 16 | 7.6 | | 320 | | | | | 14.8 | | | | | | | | | | |
| 340 | | | 19 | 11.5 | 7.7 | 5.5 | 2.6 | 340 | | | | | 18.9 | 9 | | 340 | | | | | 17.5 | | | | | | | | | | |
| 360 | | | | 13.5 | 9 | 6.5 | 3.1 | 360 | | | | | 22.1 | 10.5 | | 360 | | | | | 20.6 | | | | | | | | | | |
| 380 | | | | 15.6 | 10.5 | 7.5 | 3.6 | 380 | | | | | 25.6 | 12.2 | | 380 | | | | | | 15 | | | | | | | | | |
| 400 | | | | | 18 | 12.1 | 8.7 | 4.1 | 400 | | | | | | 14.1 | | 400 | | | | | | | | | | | | | | |
| 420 | | | | | | 13.8 | 10 | 4.7 | 420 | | | | | | 16.1 | | 420 | | | | | | | | | | | | | | |
| 440 | | | | | | | 15.8 | 11.3 | 5.3 | 440 | | | | | | 18.4 | | 440 | | | | | | | | | | | | | |
| 460 | | | | | | | | 17.8 | 12.8 | 6 | 460 | | | | | | 20.8 | | 460 | | | | | | | | | | | | |
| 480 | | | | | | | | | 20 | 14.4 | 6.8 | 480 | | | | | | 23.4 | | 480 | | | | | | | | | | | |
| 500 | | | | | | | | | | | 16.1 | 7.6 | | | | | | | | | | | | | | | | | | | |
| AmmonDrip 16, 2.2l/h, W.T 0.9-1.15mm, ID 13.9 | | | | | | | | AmmonDrip 16, 3.8 l/h, 0.9-1.15mm, ID 13.9 | | | | | | | | 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 | | | | | | | | |
| 20 | 0.5 | 0.2 | 0.1 | 0.1 | | | | 20 | 1.2 | 0.5 | 0.3 | 0.1 | 0.1 | 0.1 | | 20 | 1.2 | 0.5 | 0.3 | 0.1 | 0.1 | 0.1 | | | | | | | | | |
| 40 | 3 | 1.2 | 0.6 | 0.4 | 0.3 | 0.2 | 0.1 | 40 | 7.7 | 3.0 | 1.6 | 1.0 | 0.7 | 0.5 | 0.2 | 40 | 7.7 | 3.0 | 1.6 | 1.0 | 0.7 | 0.5 | 0.2 | | | | | | | | |
| 60 | 9 | 3.6 | 1.9 | 1.1 | 0.7 | 0.5 | 0.3 | 60 | 22.9 | 9.2 | 4.8 | 2.9 | 2.0 | 1.4 | 0.7 | 60 | 22.9 | 9.2 | 4.8 | 2.9 | 2.0 | 1.4 | 0.7 | | | | | | | | |
| 80 | 19.6 | 7.7 | 4.0 | 2.5 | 1.7 | 1.2 | 0.6 | 80 | 19.9 | 10.4 | 6.4 | 4.4 | 3.2 | 2.1 | 1.5 | 80 | 19.9 | 10.4 | 6.4 | 4.4 | 3.2 | 2.1 | 1.5 | | | | | | | | |
| 100 | | 14.2 | 7.4 | 4.5 | 3.1 | 2.2 | 1.1 | 100 | | 19.2 | 11.8 | 8.0 | 5.8 | 4.8 | 3.2 | 2.8 | 100 | | 19.2 | 11.8 | 8.0 | 5.8 | 4.8 | 3.2 | 2.8 | | | | | | |
| 120 | | 23.4 | 12.2 | 7.5 | 5.1 | 3.6 | 1.7 | 120 | | | 18.6 | 11.4 | 7.7 | 5.5 | 2.7 | 120 | | | 19.5 | 13.3 | 9.6 | 4.6 | 2.7 | | | | | | | | |
| 140 | | | | 18.6 | 11.4 | 7.7 | 5.5 | 140 | | | 16.5 | 11.1 | 8.0 | 5.8 | 3.8 | 140 | | | | 20.3 | 14.5 | 7.1 | | | | | | | | | |
| 160 | | | | | 16.5 | 11.1 | 8.0 | 5.8 | 160 | | | | 24.6 | 11.8 | | | 160 | | | | | 21.2 | 10.2 | | | | | | | | |
| 180 | | | | | | 22.8 | 15.5 | 11.2 | 5.3 | 180 | | | | | 14.7 | | 180 | | | | | | 14.1 | | | | | | | | |
| 200 | | | | | | | 20.7 | 14.8 | 7.1 | 200 | | | | | | 18.1 | | 200 | | | | | | 18.9 | | | | | | | |
| 220 | | | | | | | | 19.4 | 9.3 | 220 | | | | | | | 220 | | | | | | | | | | | | | | |
| 240 | | | | | | | | | 24.6 | 11.8 | 240 | | | | | | | 240 | | | | | | | | | | | | | |
| 260 | | | | | | | | | | 26.0 | 14.7 | 260 | | | | | | 260 | | | | | | | | | | | | | |
| 280 | | | | | | | | | | 28.0 | 18.1 | 280 | | | | | | 280 | | | | | | | | | | | | | |
| 300 | | | | | | | | | | 300 | 21.9 | 21.9 | 300 | | | | | 300 | | | | | | | | | | | | | |

THICK-WALLED PC FLAT DRIPLINE

AmmonDrip 17mm - W.T 0.63mm



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

| AmmonDrip-17mm 0.5 l/h PC W.T 0.63 mm ID 15.6 | | | | | | | | AmmonDrip 17, 1.1l/h, W.T 0.63mm, ID 15.6 | | | | | | | | AmmonDrip 17, 2.0l/h, W.T 0.63mm, ID 15.6 | | | | | | | | |
|---|------|------|-----|------|------|------|-----|---|------|------|------|------|------|-----|-----|---|------|------|------|------|------|------|-----|--|
| 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 | |
| 40 | 0.2 | 0.1 | | | | | | 20 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 20 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| 60 | 0.6 | 0.2 | 0.1 | 0.1 | | | | 40 | 0.6 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 40 | 1.1 | 0.5 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | |
| 80 | 1.3 | 0.5 | 0.3 | 0.2 | 0.1 | 0.1 | | 60 | 1.8 | 0.7 | 0.4 | 0.3 | 0.2 | 0.2 | 0.1 | 60 | 3.6 | 1.3 | 0.7 | 0.4 | 0.3 | 0.2 | 0.1 | |
| 100 | 2.3 | 0.9 | 0.5 | 0.3 | 0.2 | 0.1 | 0.1 | 80 | 3.8 | 1.5 | 0.8 | 0.5 | 0.4 | 0.3 | 0.2 | 80 | 6.9 | 2.8 | 1.5 | 0.9 | 0.6 | 0.5 | 0.2 | |
| 120 | 3.6 | 1.4 | 0.7 | 0.4 | 0.3 | 0.2 | 0.1 | 100 | 6.8 | 2.7 | 1.4 | 0.9 | 0.6 | 0.5 | 0.2 | 100 | 12.4 | 5 | 2.7 | 1.6 | 1.1 | 0.8 | 0.4 | |
| 140 | 5.4 | 2.1 | 1.1 | 0.7 | 0.5 | 0.3 | 0.1 | 120 | 10.9 | 4.4 | 2.3 | 1.4 | 1 | 0.7 | 0.4 | 120 | 20.1 | 8.1 | 4.3 | 2.6 | 1.8 | 1.3 | 0.6 | |
| 160 | 7.7 | 3 | 1.6 | 1 | 0.6 | 0.5 | 0.2 | 140 | 16.4 | 6.6 | 3.5 | 2.1 | 1.5 | 1.1 | 0.5 | 140 | 12.2 | 6.5 | 4 | 2.7 | 2 | 0.9 | | |
| 180 | 10.5 | 4.1 | 2.2 | 1.3 | 0.9 | 0.6 | 0.3 | 160 | 9.4 | 5 | 3 | 2.1 | 1.5 | 0.7 | | 160 | 17.4 | 9.3 | 5.7 | 3.9 | 2.8 | 1.3 | | |
| 200 | 13.8 | 5.5 | 2.8 | 1.7 | 1.2 | 0.8 | 0.4 | 180 | 12.8 | 6.8 | 4.2 | 2.8 | 2 | 1 | | 180 | 12.7 | 7.8 | 5.3 | 3.8 | 1.8 | | | |
| 220 | 7 | 3.7 | 2.2 | 1.5 | 1.1 | 0.5 | | 200 | 17 | 9 | 5.5 | 3.8 | 2.7 | 1.3 | | 200 | 16.9 | 10.4 | 7.1 | 5.1 | 2.4 | | | |
| 240 | 8.8 | 4.6 | 2.8 | 1.9 | 1.4 | 0.6 | | 220 | 11.6 | 7.1 | 4.9 | 3.5 | 1.7 | | | 220 | 13.4 | 9.2 | 6.6 | 3.1 | | | | |
| 260 | 10.9 | 5.7 | 3.5 | 2.4 | 1.7 | 0.8 | | 240 | 14.7 | 9 | 6.1 | 4.4 | 2.1 | | | 240 | 17 | 11.6 | 8.4 | 4 | | | | |
| 280 | 13.3 | 7 | 4.3 | 2.9 | 2.1 | 1 | | 260 | 18.2 | 11.2 | 7.6 | 5.5 | 2.6 | | | 260 | | 14.4 | 10.4 | 5 | | | | |
| 300 | | 8.4 | 5.1 | 3.5 | 2.5 | 1.2 | | 280 | | 13.6 | 9.3 | 6.7 | 3.2 | | | 280 | | 17.6 | 12.7 | 6.1 | | | | |
| 320 | | 10 | 6.1 | 4.1 | 2.9 | 1.4 | | 300 | | 16.4 | 11.2 | 8.1 | 3.8 | | | 300 | | | 15.4 | 7.3 | | | | |
| 340 | | 11.7 | 7.2 | 4.8 | 3.5 | 1.6 | | 320 | | 19.6 | 13.3 | 9.6 | 4.6 | | | 320 | | | | 18.3 | 8.7 | | | |
| 360 | | 13.7 | 8.4 | 5.6 | 4 | 1.9 | | 340 | | | 15.6 | 11.3 | 5.4 | | | 340 | | | | | 10.3 | | | |
| 380 | | | 9.7 | 6.5 | 4.7 | 2.2 | | 360 | | | 18.3 | 13.2 | 6.3 | | | 360 | | | | | 12.1 | | | |
| 400 | | | | 11.1 | 7.5 | 5.4 | 2.5 | 380 | | | | 15.3 | 7.3 | | | 380 | | | | | 14 | | | |
| 420 | | | | 12.6 | 8.5 | 6.1 | 2.9 | 400 | | | | 17.6 | 8.4 | | | 400 | | | | | 16.1 | | | |
| 440 | | | | 14.3 | 9.7 | 7 | 3.3 | 420 | | | | 20.1 | 9.6 | | | 420 | | | | | 18.4 | | | |
| 460 | | | | | 10.9 | 7.9 | 3.7 | 440 | | | | 10.9 | | | | 440 | | | | | 20.9 | | | |
| 480 | | | | | | 12.2 | 8.8 | 4.2 | 480 | | | | 12.3 | | | | 480 | | | | | 13.8 | | |
| 500 | | | | | | 13.7 | 9.8 | 4.7 | 500 | | | | 15.4 | | | | 500 | | | | | | | |

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

| Dripper spacing (cm) | | | | | | | | |
|----------------------|------|------|------|------|------|------|------|------|
| Lateral length(m) | 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 |

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

| Dripper spacing (cm) | | | | | | | |
|----------------------|------|------|------|------|------|------|------|
| Lateral length(m) | 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

AmmonDrip 17mm - W.T 0.9-1.2mm**HEAD LOSS (m) IN RELATION TO LATERAL LENGTH (m), DRIPPER FLOW RATE AND SPACING (cm)**

| AmmonDrip 17mm 0.5 l/h W.T 0.9-1.2 mm ID 14.4 | | | | | | | | AmmonDrip 17, 1.1l/h, W.T 0.9-1.2mm, ID 14.4 | | | | | | | | AmmonDrip 17, 1.6l/h, W.T 0.9-1.2mm, ID 14.4 | | | | | | | | AmmonDrip 17, 2.0l/h, W.T 0.9-1.2mm, ID 14.4 | | | | | | | | | |
|---|------|------|------|------|------|------|------|--|------|------|------|------|------|------|------|--|------|------|------|------|------|-----|-----|--|------|------|------|------|------|-----|-----|--|--|
| 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 | | | | | | 40 | 0.7 | 0.3 | 0.1 | 0.1 | 0.1 | | | 40 | 1.3 | 0.5 | 0.3 | 0.2 | 0.1 | 0.1 | | 40 | 1.8 | 0.8 | 0.4 | 0.3 | 0.2 | 0.2 | 0.1 | | |
| 60 | 0.6 | 0.3 | 0.1 | 0.1 | 0.1 | | | 60 | 2 | 0.8 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 | 60 | 3.7 | 1.5 | 0.8 | 0.5 | 0.3 | 0.2 | 0.1 | 60 | 5.2 | 2.1 | 1.2 | 0.7 | 0.5 | 0.4 | 0.2 | | |
| 80 | 1.4 | 0.5 | 0.3 | 0.2 | 0.1 | 0.1 | | 80 | 4.3 | 1.7 | 0.9 | 0.6 | 0.4 | 0.3 | 0.1 | 80 | 8 | 3.3 | 1.7 | 1.1 | 0.7 | 0.5 | 0.3 | 80 | 11.1 | 4.6 | 2.5 | 1.6 | 1.1 | 0.8 | 0.4 | | |
| 100 | 2.5 | 1 | 0.5 | 0.3 | 0.2 | 0.2 | 0.1 | 100 | 7.8 | 3.2 | 1.7 | 1 | 0.7 | 0.5 | 0.2 | 100 | 14.6 | 6 | 3.2 | 2 | 1.3 | 1 | 0.5 | 100 | 20.2 | 8.5 | 4.6 | 2.9 | 2 | 1.5 | 0.7 | | |
| 120 | 4 | 1.6 | 0.8 | 0.5 | 0.4 | 0.3 | 0.1 | 120 | 12.7 | 5.2 | 2.7 | 1.7 | 1.2 | 0.8 | 0.4 | 120 | 23.7 | 9.8 | 5.2 | 3.2 | 2.2 | 1.6 | 0.8 | 120 | 25.5 | 13.8 | 7.5 | 4.7 | 3.2 | 2.4 | 1.2 | | |
| 140 | 6 | 2.4 | 1.3 | 0.8 | 0.5 | 0.4 | 0.2 | 140 | 19.1 | 7.8 | 4.2 | 2.6 | 1.8 | 1.3 | 0.6 | 140 | 48 | 7.9 | 4.9 | 3.4 | 2.4 | 1.2 | | 140 | 20.9 | 11.4 | 7.1 | 4.9 | 3.6 | 1.8 | | | |
| 160 | 8.5 | 3.5 | 1.8 | 1.1 | 0.8 | 0.6 | 0.3 | 160 | 11.2 | 6 | 3.7 | 2.5 | 1.8 | 0.9 | | 160 | 21.2 | 11.4 | 7.1 | 4.9 | 3.5 | 1.7 | | 160 | 25.6 | 16.3 | 10.2 | 7.1 | 5.2 | 2.5 | | | |
| 180 | 11.6 | 4.7 | 2.5 | 1.6 | 1.1 | 0.8 | 0.4 | 180 | 15.3 | 8.2 | 5.1 | 3.5 | 2.5 | 1.2 | | 180 | 20.9 | 13.1 | 9 | 6 | 3.2 | | | 180 | 22.5 | 14.1 | 9.8 | 7.1 | 3.5 | | | | |
| 200 | 15.4 | 6.3 | 3.3 | 2.1 | 1.4 | 1 | 0.5 | 200 | 20.4 | 11 | 6.8 | 4.7 | 3.4 | 1.6 | | 200 | 40 | 11.6 | 8.5 | 4.1 | | | | 200 | 25.7 | 18.8 | 13 | 9.5 | 4.6 | | | | |
| 220 | 19.8 | 8.1 | 4.3 | 2.7 | 1.8 | 1.3 | 0.6 | 220 | 14.2 | 8.8 | 6 | 4.4 | 2.1 | | | 220 | 21.5 | 14.8 | 107 | 5.3 | | | | 220 | 24.5 | 17 | 12.3 | 6 | | | | | |
| 240 | | 10.2 | 5.5 | 3.4 | 2.3 | 1.7 | 0.8 | 240 | | 18 | 11.2 | 7.7 | 5.6 | 2.7 | | 240 | | | 18.5 | 13.4 | 6.6 | | | 240 | | | 21.5 | 15.7 | 7.7 | | | | |
| 260 | | 12.6 | 6.8 | 4.2 | 2.9 | 2.1 | 1 | 260 | | 22.4 | 14 | 9.6 | 7 | 3.4 | | 260 | | | 22.6 | 16.5 | 8 | | | 260 | | | 19.7 | 9.6 | | | | | |
| 280 | | 15.4 | 8.3 | 5.1 | 3.5 | 2.5 | 1.2 | 280 | | | 17.1 | 11.7 | 8.5 | 4.1 | | 280 | | | | 19.9 | 9.7 | | | 280 | | | 24 | 11.7 | | | | | |
| 300 | | 18.5 | 10 | 6.2 | 4.2 | 3.1 | 1.5 | 300 | | | 20.7 | 14.2 | 10.3 | 5 | | 300 | | | | 23.9 | 11.6 | | | 300 | | | | 14.2 | | | | | |
| 320 | | | 11.9 | 7.4 | 5 | 3.7 | 1.8 | 320 | | | 24.6 | 16.9 | 12.3 | 6 | | 320 | | | | | 13.8 | | | 320 | | | | 17 | | | | | |
| 340 | | | 14 | 8.7 | 5.9 | 4.3 | 2.1 | 340 | | | | 20 | 14.5 | 7.1 | | 340 | | | | | 16.1 | | | 340 | | | | 20.1 | | | | | |
| 360 | | | 16.3 | 10.2 | 6.9 | 5 | 2.4 | 360 | | | | 23.3 | 17 | 8.3 | | 360 | | | | | 18.7 | | | 360 | | | | | 21.6 | | | | |
| 380 | | | 18.9 | 11.8 | 8.1 | 5.8 | 2.8 | 380 | | | | | 19.7 | 9.6 | | 380 | | | | | 21.6 | | | 380 | | | | | 24.7 | | | | |
| 400 | | | | 13.5 | 9.2 | 6.7 | 3.3 | 400 | | | | | 22.8 | 11.1 | | 400 | | | | | | | | 400 | | | | | | | | | |
| 420 | | | | 15.4 | 10.6 | 7.7 | 3.7 | 420 | | | | | | 12.7 | | 420 | | | | | | | | 420 | | | | | | | | | |
| 440 | | | | 17.5 | 12 | 8.7 | 4.2 | 440 | | | | | | | 14.4 | 440 | | | | | | | | 440 | | | | | | | | | |
| 460 | | | | 19.8 | 13.5 | 9.9 | 4.8 | 460 | | | | | | | 16.3 | 460 | | | | | | | | 460 | | | | | | | | | |
| 480 | | | | | 15.2 | 11.1 | 5.4 | 480 | | | | | | | 18.4 | 480 | | | | | | | | 480 | | | | | | | | | |
| 500 | | | | | | 17 | 12.4 | 6 | 500 | | | | | | | 20.6 | 500 | | | | | | | | 500 | | | | | | | | |

| AmmonDrip 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 | 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 | 40 | 6.3 | 2.6 | 1.4 | 0.9 | 0.6 | 0.4 | 0.2 |
| 60 | | | | | | | | 60 | 13.7 | 5.6 | 3 | 1.9 | 1.3 | 0.9 | 0.5 |
| 80 | | | | | | | | 80 | 24.9 | 10.3 | 5.5 | 3.4 | 2.3 | 1.7 | 0.8 |
| 100 | | | | | | | | 100 | 16.8 | 9 | 5.6 | 3.9 | 2.8 | 1.4 | |
| 120 | | | | | | | | 120 | 25.4 | 13.7 | 8 | 5.9 | 4.3 | 2.1 | |
| 140 | | | | | | | | 140 | | | 19.7 | 12.4 | 8.5 | 6.2 | 3 |
| 160 | | | | | | | | 160 | | | 17.1 | 11.8 | 8.6 | 4.2 | |
| 180 | | | | | | | | 180 | | | 22.8 | 15.7 | 11.4 | 5.6 | |
| 200 | | | | | | | | 200 | | | | 20.4 | 14.9 | 7.3 | |
| 220 | | | | | | | | 220 | | | | | 18.8 | 9.3 | |
| 240 | | | | | | | | 240 | | | | | 23.6 | 11.6 | |
| 260 | | | | | | | | 260 | | | | | | 14.2 | |
| 280 | | | | | | | | 280 | | | | | | 20.5 | |
| 300 | | | | | | | | 300 | | | | | | | 12.9 |
| 320 | | | | | | | | 320 | | | | | | | 16.8 |
| 340 | | | | | | | | 340 | | | | | | | 21.3 |

| AmmonDrip 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 | Lateral length(m) | 20 | 30 | 40 | 50 | 60 | 70 | 100 |
| 20 | 1 | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | | 20 | 6.5 | 2.5 | 1.3 | 0.7 | 0.5 | 0.4 | 0.2 |
| 40 | | | | | | | | 40 | 19.2 | 7.4 | 3.8 | 2.2 | 1.5 | 1 | 0.5 |
| 60 | | | | | | | | 60 | 15.8 | 8.1 | 4.8 | 3.2 | 2.3 | 1.1 | |
| 80 | | | | | | | | 80 | | | 14.7 | 8.8 | 5.9 | 4.2 | 1.9 |
| 100 | | | | | | | | 100 | | | 24.1 | 14.5 | 9.8 | 6.9 | 3.2 |
| 120 | | | | | | | | 120 | | | 22.1 | 14.8 | 10.4 | 4.9 | |
| 140 | | | | | | | | 140 | | | | | | 21.2 | 15.1 |
| 160 | | | | | | | | 160 | | | | | | 20.9 | 9.7 |
| 180 | | | | | | | | 180 | | | | | | | 12.9 |
| 200 | | | | | | | | 200 | | | | | | | 16.8 |
| 220 | | | | | | | | 220 | | | | | | | 21.3 |

THICK-WALLED PC FLAT DRIPLINE **AmmonDrip 20mm**



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

| AmmonDrip-20mm 0.5 l/h W.T I.0-I.2 mm ID 17.7 | | | | | | | | AmmonDrip 20, 1.1l/h, W.T I.0-I.2mm, ID 17.7 | | | | | | | | AmmonDrip 20, 1.6l/h, W.T I.0-I.2mm, ID 17.7 | | | | | | | | AmmonDrip 20, 2.0l/h, W.T I.0-I.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 | 0.1 | 0.1 | 40 | 0.9 | 0.4 | 0.2 | 0.1 | 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 | 24.6 | 12.6 | 7.2 | 4.6 | 3.3 | 2.4 | 1.2 | 180 | 27.3 | 9.9 | 6.4 | 4.5 | 3.3 | 2.3 | 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 | 30.3 | 16.3 | 9.3 | 6 | 4.2 | 3.1 | 1.6 | 200 | 32.5 | 12.8 | 8.3 | 5.8 | 4.4 | 3.2 | 2.2 | | |
| 220 | 10.6 | 4.7 | 2.6 | 1.7 | 1.2 | 0.9 | 0.4 | 220 | 24.1 | 12.1 | 6.8 | 4.4 | 3.1 | 2.3 | 1.1 | 220 | 40.7 | 20.7 | 11.7 | 7.6 | 5.3 | 4 | 2 | 220 | 45.6 | 16.3 | 10.5 | 7.5 | 5.5 | 4.8 | 2.8 | | |
| 240 | 12.9 | 5.7 | 3.2 | 2.1 | 1.4 | 1.1 | 0.5 | 240 | 27.8 | 14.8 | 8.4 | 5.4 | 3.8 | 2.8 | 1.4 | 240 | 50.6 | 25.6 | 14.6 | 9.4 | 6.6 | 4.9 | 2.5 | 240 | 53.3 | 20.3 | 13.1 | 9.3 | 6.9 | 5.3 | 3.5 | | |
| 260 | 15.6 | 6.9 | 3.9 | 2.5 | 1.7 | 1.3 | 0.6 | 260 | 31.5 | 18 | 10.2 | 6.6 | 4.6 | 3.4 | 1.7 | 260 | 75.8 | 21.8 | 17.8 | 11 | 8.1 | 6 | 3 | 260 | 78.8 | 24.8 | 16.1 | 11.3 | 8.5 | 6.3 | 3.9 | | |
| 280 | 18.5 | 8.2 | 4.6 | 3 | 2.1 | 1.5 | 0.8 | 280 | 35.2 | 21.6 | 12.3 | 7.9 | 5.5 | 4.1 | 2.1 | 280 | 103.5 | 21.4 | 13.9 | 9.7 | 7.3 | 5.6 | 3.6 | 280 | 106.2 | 19.4 | 13.7 | 10.2 | 8.1 | 6.5 | 3.1 | | |
| 300 | 9.6 | 5.4 | 3.5 | 2.4 | 1.8 | 0.9 | | 300 | 38.9 | 25.6 | 14.5 | 9.4 | 6.6 | 4.9 | 2.4 | 300 | 117.5 | 25.5 | 16.5 | 11.6 | 8.6 | 6.3 | 4.3 | 300 | 122.2 | 23.2 | 16.4 | 12.2 | 9.1 | 7.1 | 4.1 | | |
| 320 | 11.2 | 6.4 | 4.1 | 2.8 | 2.1 | 1 | | 320 | 42.6 | 30.1 | 17.1 | 11 | 7.7 | 5.7 | 2.9 | 320 | 136.2 | 19.4 | 13.7 | 10.2 | 8.1 | 6.5 | 4.3 | 320 | 141.7 | 25.4 | 19.3 | 14.4 | 11.3 | 9.2 | 5.2 | | |
| 340 | 13 | 7.3 | 4.7 | 3.3 | 2.4 | 1.2 | | 340 | 46.3 | 34.9 | 19.9 | 12.8 | 9 | 6.7 | 3.3 | 340 | 150.8 | 22.7 | 16 | 11.9 | 6 | | | 340 | 155.5 | 22.4 | 16.8 | 12.8 | 10.5 | 8.5 | 5.5 | | |
| 360 | 14.9 | 8.4 | 5.4 | 3.8 | 2.8 | 1.4 | | 360 | 50.0 | 40.2 | 22.9 | 14.8 | 10.4 | 7.7 | 3.9 | 360 | 165.5 | 22.9 | 18.5 | 13.8 | 9.6 | | | 360 | 170.0 | 25.2 | 19.5 | 15.9 | 12.6 | 10.4 | 7.4 | | |
| 380 | 16.9 | 9.6 | 6.1 | 4.3 | 3.2 | 1.6 | | 380 | 53.7 | 44.9 | 26.6 | 16.9 | 11.9 | 8.8 | 4.4 | 380 | 181.2 | 21.3 | 15.8 | 10.8 | 7.8 | | | 380 | 186.0 | 22.5 | 16.3 | 12.2 | 9.1 | 7.0 | 4.8 | | |
| 400 | 19.1 | 10.8 | 6.9 | 4.9 | 3.6 | 1.8 | | 400 | 57.4 | 49.6 | 30.3 | 19.3 | 13.5 | 10 | 5 | 400 | 196.8 | 24.2 | 18 | 9.1 | | | | 400 | 201.5 | 25.6 | 13 | 10 | 7.6 | 5.4 | 3.2 | | |
| 420 | | 12.2 | 7.8 | 5.5 | 4 | 2 | | 420 | | 61.1 | 52.8 | 21.8 | 15.3 | 11.4 | 5.7 | | 420 | | 211.2 | 21.8 | 20.5 | 10.3 | | | 420 | | 216.0 | 16.6 | 14.7 | 10.6 | 8.4 | 6.2 | 4.0 |
| 440 | | 13.6 | 8.8 | 6.1 | 4.5 | 2.3 | | 440 | | 64.8 | 57.5 | 24.5 | 17.2 | 12.8 | 6.4 | | 440 | | 225.8 | 23.1 | 21.7 | 11.7 | | | 440 | | 230.5 | 16.6 | 14.4 | 10.5 | 8.3 | 6.1 | 4.1 |
| 460 | | 15.2 | 9.8 | 6.8 | 5 | 2.5 | | 460 | | 68.5 | 71.2 | 26.2 | 19.3 | 14.3 | 7.2 | | 460 | | 239.5 | 25.9 | 23.7 | 13.1 | | | 460 | | 245.0 | 16.0 | 14.8 | 10.4 | 8.2 | 6.0 | 4.0 |
| 480 | | 16.8 | 10.8 | 7.6 | 5.6 | 2.8 | | 480 | | 72.2 | 73.9 | 21.5 | 15.9 | 10.9 | 8 | | 480 | | 249.2 | 21.8 | 20.7 | 14.7 | | | 480 | | 254.8 | 20.8 | 18.7 | 12.1 | 9.9 | 7.8 | 5.8 |
| 500 | | 18.6 | 12 | 8.4 | 6.2 | 3.1 | | 500 | | 75.9 | 77.6 | 23.9 | 17.7 | 12.7 | 8.9 | | 500 | | 259.8 | 23.1 | 22.1 | 12.1 | | | 500 | | 264.7 | 21.0 | 19.7 | 12.1 | 9.9 | 7.7 | 5.7 |

| AmmonDrip 20, 2.2l/h, W.T I.0-I.2mm, ID 17.7 | | | | | | | | AmmonDrip 20, 3.8 l/h, W.T I.0-I.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 | 0.5 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | | 40 | 1.1 | 0.5 | 0.3 | 0.2 | 0.1 | 0.1 | |
| 60 | 2.6 | 1.2 | 0.7 | 0.4 | 0.3 | 0.2 | | 60 | 2.8 | 1.3 | 0.7 | 0.5 | 0.4 | 0.3 | |
| 80 | 6.8 | 3.1 | 1.7 | 1.1 | 0.8 | 0.6 | | 80 | 5.5 | 2.5 | 1.4 | 0.9 | 0.7 | 0.5 | |
| 100 | 13.5 | 6.1 | 3.5 | 2.2 | 1.6 | 1.2 | | 100 | 9.2 | 4.2 | 2.4 | 1.5 | 1.1 | 0.8 | |
| 120 | 23.3 | 10.6 | 6 | 3.9 | 2.7 | 2 | | 120 | 16.6 | 9.4 | 6.1 | 4.4 | 3.2 | 1.6 | |
| 140 | 44.4 | 13.9 | 9.1 | 6.4 | 4.7 | 2.4 | | 140 | 24.4 | 13.9 | 9.1 | 6.4 | 4.7 | 2.4 | |
| 160 | 76.0 | 19.6 | 12.7 | 9 | 6.7 | 3.4 | | 160 | 48.0 | 19.6 | 12.7 | 9 | 6.7 | 3.4 | |
| 180 | 117.7 | 26.5 | 17.2 | 12.2 | 9.1 | 6.1 | | 180 | 72.2 | 26.5 | 17.2 | 12.2 | 9.1 | 6.1 | |
| 200 | 159.4 | 22.6 | 16 | 11.9 | 6 | | | 200 | 103.5 | 22.6 | 16 | 11.9 | 6 | | |
| 220 | 192.0 | 20.5 | 15.3 | 10.8 | 7.8 | | | 220 | 136.2 | 20.5 | 15.3 | 10.8 | 7.8 | | |
| 240 | 229.8 | 25.9 | 19.2 | 14.2 | 9.8 | | | 240 | 168.0 | 25.9 | 19.2 | 14.2 | 9.8 | | |
| 260 | 257.0 | 23.7 | 21.1 | 17.4 | 12.1 | | | 260 | 196.8 | 23.7 | 21.1 | 17.4 | 12.1 | | |
| 280 | 287.0 | 21.0 | 19.7 | 15.3 | 10.8 | | | 280 | 224.0 | 21.0 | 19.7 | 15.3 | 10.8 | | |
| 300 | 316.7 | 19.7 | 17.4 | 13.4 | 8.5 | | | 300 | 253.5 | 19.7 | 17.4 | 13.4 | 8.5 | | |
| 320 | 345.4 | 17.7 | 15.3 | 10.8 | 7.2 | | | 320 | 282.3 | 17.7 | 15.3 | 10.8 | 7.2 | | |
| 340 | 374.1 | 15.7 | 13.4 | 9.8 | 6.5 | | | 340 | 311.1 | 15.7 | 13.4 | 9.8 | 6.5 | | |

THICK-WALLED PC FLAT DRIPLINE

AmmonDrip 23mm**HEAD LOSS (m) IN RELATION TO LATERAL LENGTH (m), DRIPPER FLOW RATE AND SPACING (cm)**

| Ammon-23mm ,0.5 l/h W.T 1.0 mm ID 20.8 | | | | | | | | AmmonDrip 23, 1.1 l/h, W.T 1.00mm, ID 20.8 | | | | | | | | AmmonDrip 23 1.6l/h, W.T 1.00mm, ID 20.8 | | | | | | | | AmmonDrip 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 | | | | | | | |
| 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 | 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 | | |



AmmonDrip 23 2.2l/h, W.T 1.00mm, ID 20.8

Dripper spacing (cm)

| Lateral length(m) | 20 | 30 | 40 | 50 | 60 | 70 | 100 |
|-------------------|------|------|------|------|------|------|------|
| 40 | 0.4 | 0.2 | 0.1 | 0.1 | | | |
| 60 | 0.9 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 | |
| 80 | 1.8 | 0.9 | 0.5 | 0.3 | 0.2 | 0.2 | 0.1 |
| 100 | 3.2 | 1.5 | 0.9 | 0.6 | 0.4 | 0.3 | 0.2 |
| 120 | 5 | 2.4 | 1.4 | 0.9 | 0.6 | 0.5 | 0.3 |
| 140 | 7.4 | 3.5 | 2 | 1.3 | 1 | 0.7 | 0.4 |
| 160 | 10.5 | 4.9 | 2.9 | 1.9 | 1.3 | 1 | 0.5 |
| 180 | 14.2 | 6.6 | 3.9 | 2.5 | 1.8 | 1.4 | 0.7 |
| 200 | 18.7 | 8.8 | 5.1 | 3.4 | 2.4 | 1.8 | 0.9 |
| 220 | 24 | 11.2 | 6.5 | 4.3 | 3.1 | 2.3 | 1.2 |
| 240 | 14.1 | 8.2 | 5.4 | 3.9 | 2.9 | 1.5 | |
| 260 | | 17.5 | 10.2 | 6.7 | 4.8 | 3.6 | 1.9 |
| 280 | | 21.3 | 12.4 | 8.2 | 5.8 | 4.4 | 2.3 |
| 300 | | 25.6 | 14.9 | 9.8 | 7 | 5.3 | 2.7 |
| 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 |

AmmonDrip 23 3.8l/h, W.T 1.00mm, ID 20.8

Dripper spacing (cm)

| Lateral length(m) | 20 | 30 | 40 | 50 | 60 | 70 | 100 |
|-------------------|------|------|------|------|------|------|------|
| 20 | 0.2 | 0.1 | | | | | |
| 40 | 0.7 | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | |
| 60 | 2 | 1 | 0.6 | 0.4 | 0.3 | 0.2 | 0.1 |
| 80 | 4.2 | 2 | 1.1 | 0.7 | 0.5 | 0.4 | 0.2 |
| 100 | 7.4 | 3.5 | 2 | 1.3 | 0.9 | 0.7 | 0.4 |
| 120 | 11.9 | 5.6 | 3.2 | 2.1 | 1.5 | 1.2 | 0.6 |
| 140 | 17.8 | 8.4 | 4.9 | 3.2 | 2.3 | 1.7 | 0.9 |
| 160 | 25.5 | 11.9 | 7 | 4.6 | 3.3 | 2.5 | 1.3 |
| 180 | | 16.3 | 9.5 | 6.3 | 4.5 | 3.4 | 1.8 |
| 200 | | 21.7 | 12.6 | 8.3 | 6 | 4.5 | 2.3 |
| 220 | | | 16.4 | 10.8 | 7.7 | 5.8 | 3 |
| 240 | | | | 20.7 | 13.7 | 9.8 | 7.3 |
| 260 | | | | | 17 | 12.1 | 9.1 |
| 280 | | | | | | 20.8 | 14.8 |
| 300 | | | | | | 25.1 | 18 |
| | | | | | | 13.5 | 7 |

THICK-WALLED PC FLAT DRIPLINE

TopDrip HD PC & PC AS



Innovative, cost effective, heavy duty pressure-compensating (PC) and anti-syphon (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

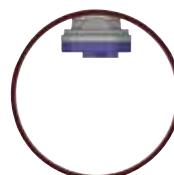


0.6, 1.0, 1.6, 2.0, 2.2, 3.5 l/h

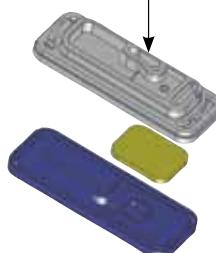
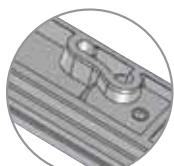


3 PARTS-UPPER VIEW

Shallow profile reduces head losses
Raised water inlet reduces clogging

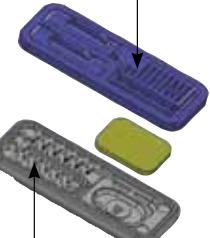
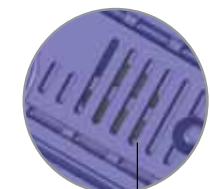


Weir design prevents root intrusion and sand suction



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 |



* Dripper spacing can affect coil length.

THICK-WALLED PC FLAT DRIPLINE

TopDripHD PC & PC AS



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

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 | | | | | | | | | | |
|--|------|------|------|------|------|-----|------|-----|-----|-----|
| Dripper spacing (cm) | | | | | | | | | | |
| Lateral length(m) | 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 | |
| 120 | 6.7 | 3.3 | 1.3 | 0.7 | 0.4 | 0.3 | 0.2 | 0.2 | 0.1 | |
| 140 | 10.4 | 5.2 | 2 | 1.1 | 0.7 | 0.5 | 0.3 | 0.3 | 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 | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|-----|
| Dripper spacing | | | | | | | | | | |
| Lateral length (m) | 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 | |
| 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 | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|-----|
| Dripper spacing | | | | | | | | | | |
| Lateral length(m) | 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 | |
| 80 | 14.3 | 6.9 | 2.6 | 1.3 | 0.8 | 0.5 | 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, 2.2l/h, W.T 0.9-1.2mm, ID 14.4 | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|-----|
| Dripper spacing | | | | | | | | | | |
| Lateral length(m) | 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 | |
| 40 | 3.1 | 1.6 | 0.7 | 0.4 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | |
| 60 | 10.1 | 5 | 2 | 1.1 | 0.7 | 0.5 | 0.3 | 0.3 | 0.2 | |
| 80 | 23.3 | 11.6 | 4.6 | 2.5 | 1.5 | 1.1 | 0.7 | 0.6 | 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 | 1 | |
| 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 | | |
| 360 | | | | | | | | | 22.3 | |

| TopDrip HD 17mm 3.5l/h W.T 0.9-1.2 ID 14.4 | | | | | | | | | | |
|--|------|-----|-----|-----|-----|-----|------|-----|-----|-----|
| Dripper spacing | | | | | | | | | | |
| Lateral length(m) | 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 | | |

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 20mm 0.6l/h W.T 0.9-1.2 ID 17.7

| Dripper spacing (cm) | | | | | | | | | | |
|----------------------|------|------|------|-----|-----|-----|------|-----|-----|-----|
| Lateral length(m) | 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 | 0.1 | | | |
| 120 | 2.6 | 1.4 | 0.6 | 0.3 | 0.2 | 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 | |
| 160 | 5.5 | 2.9 | 1.2 | 0.7 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 | |
| 180 | 7.5 | 4 | 1.7 | 0.9 | 0.6 | 0.4 | 0.3 | 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) | 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 | |
| 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 | 0.1 | |
| 160 | 14.8 | 7.2 | 2.7 | 1.4 | 0.9 | 0.6 | 0.4 | 0.3 | 0.2 | |
| 180 | 20.9 | 10.1 | 3.8 | 2 | 1.2 | 0.8 | 0.5 | 0.4 | 0.3 | |
| 200 | 28.6 | 13.8 | 5.2 | 2.7 | 1.6 | 1.1 | 0.7 | 0.6 | 0.5 | |
| 220 | | 18.2 | 6.8 | 3.5 | 2.1 | 1.4 | 0.9 | 0.8 | 0.6 | |
| 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) | 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 | 0.1 | |
| 80 | 4.8 | 2.3 | 0.9 | 0.5 | 0.3 | 0.2 | 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 | |
| 120 | 15.8 | 7.7 | 2.9 | 1.5 | 0.9 | 0.6 | 0.4 | 0.3 | 0.3 | |
| 140 | 25.0 | 12.0 | 4.5 | 2.3 | 1.4 | 1.0 | 0.6 | 0.5 | 0.4 | |
| 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 | |
| 280 | | | | 17.4 | 10.5 | 7.0 | 4.4 | 3.8 | 3.0 | |
| 300 | | | | 21.3 | 12.8 | 8.6 | 5.3 | 4.7 | 3.6 | |
| 320 | | | | 25.6 | 15.5 | 10.4 | 6.4 | 5.6 | 4.4 | |
| 340 | | | | | 18.4 | 12.4 | 7.7 | 6.7 | 5.2 | |
| 360 | | | | | 21.8 | 14.6 | 9.0 | 7.9 | 6.2 | |
| 380 | | | | | 25.5 | 17.0 | 10.5 | 9.2 | 7.2 | |
| 400 | | | | | | 19.8 | 12.2 | 10.7 | 8.3 | |
| 420 | | | | | | 22.7 | 14.1 | 12.3 | 9.6 | |
| 440 | | | | | | 26.0 | 16.1 | 14.0 | 10.9 | |
| 460 | | | | | | | 18.3 | 15.9 | 12.5 | |
| 480 | | | | | | | 20.7 | 18.0 | 14.1 | |
| 500 | | | | | | | 23.3 | 20.3 | 15.8 | |

TopDrip 20, 2.0l/h, W.T 0.9-1.2mm, ID 17.7

| Lateral length(m) | 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 | |
| 40 | 1 | 0.6 | 0.3 | 0.2 | 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 | |
| 80 | 6.2 | 3.4 | 1.5 | 0.8 | 0.5 | 0.4 | 0.3 | 0.2 | 0.2 | |
| 100 | 11.2 | 6.1 | 2.7 | 1.5 | 1 | 0.7 | 0.5 | 0.4 | 0.3 | |
| 120 | 18.2 | 9.9 | 4.3 | 2.4 | 1.5 | 1.1 | 0.7 | 0.6 | 0.5 | |
| 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 | 1.8 | 1.6 | 1.3 | |
| 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 HD 20mm 3.5l/h W.T 0.9-1.2 ID 17.7

| Lateral length(m) | 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 | |
| 60 | 7.5 | 4 | 1.8 | 1 | 0.6 | 0.4 | 0.3 | 0.2 | 0.2 | |
| 80 | 16 | 8.7 | 3.8 | 2.1 | 1.4 | 0.9 | 0.6 | 0.5 | 0.4 | |
| 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 | |
| | | | | | | | | | | |

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

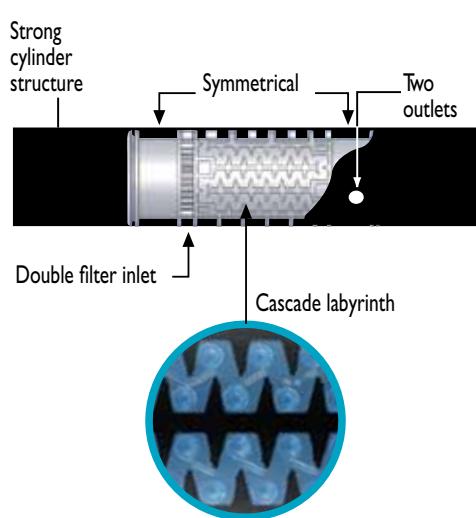


2.2 l/h



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 | Barb 16 |
| | 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 | Barb 16 |
| | 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 | Barb 16 |
| | 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 | Barb 20 |
| | 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 | Barb 20 |
| | 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 | Barb 20 |
| | 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

| Dripper spacing (cm) | | | | | | | |
|----------------------|------|------|------|------|------|------|------|
| Lateral length(m) | 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 | 7.2 | 3.4 |
| 260 | | | | 19.3 | 12.8 | 9.1 | 4.3 |
| 280 | | | | 24 | 15.9 | 11.4 | 5.3 |
| 300 | | | | | 19.6 | 13.8 | 6.5 |
| 320 | | | | | 23.6 | 16.8 | 7.8 |
| 340 | | | | | | 19.9 | 9.3 |
| 360 | | | | | | 23.6 | 11 |
| 380 | | | | | | | 12.9 |
| 400 | | | | | | | 14.9 |
| 420 | | | | | | | 17.2 |
| 440 | | | | | | | 19.6 |
| 460 | | | | | | | 22.3 |
| 480 | | | | | | | 25.3 |

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

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

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

| Dripper spacing (cm) | | | | | | | |
|----------------------|------|------|------|------|------|------|------|
| Lateral length(m) | 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 | 31.1 | 13.6 | 7.9 | 4.2 | 2.6 | 1.9 | 0.9 |
| 180 | 48.5 | 18.5 | 9.3 | 5.6 | 3.7 | 2.7 | 1.3 |
| 200 | 75.4 | 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

| Dripper spacing (cm) | | | | | | | |
|----------------------|------|------|------|------|------|------|------|
| Lateral length(m) | 20 | 30 | 40 | 50 | 60 | 70 | 100 |
| 20 | 0.2 | 0.1 | | | | | |
| 40 | 1.2 | 0.5 | 0.2 | 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 |
| 280 | | | | | | | 19.8 |
| 300 | | | | | | | 24.1 |
| 320 | | | | | | | 13.5 |
| 340 | | | | | | | 16.1 |
| 360 | | | | | | | 19 |
| 380 | | | | | | | 22.2 |
| 400 | | | | | | | 25.8 |

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

| Dripper spacing (cm) | | | | | | | |
|----------------------|------|------|------|------|------|------|------|
| Lateral length(m) | 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 |
| 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

| Dripper spacing (cm) | | | | | | | |
|----------------------|------|------|------|------|------|------|------|
| Lateral length(m) | 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

| Dripper spacing (cm) | | | | | | | | | | | |
|----------------------|------|------|------|------|------|------|------|------|------|------|-----|
| Lateral length(m) | 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

| Dripper spacing (cm) | | | | | | | | |
|----------------------|------|------|------|------|------|------|------|------|
| Lateral length(m) | 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

| Dripper spacing (cm) | | | | | | | | | |
|----------------------|------|------|------|------|------|------|------|------|------|
| Lateral length(m) | 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

| Dripper spacing (cm) | | | | | | | | |
|----------------------|------|------|------|------|------|------|------|------|
| Lateral length(m) | 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 Sugarcane, 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 0.6 l/h W.T 13 mil ID 11.8 | | TopDrip-12 0.6 l/h W.T 15 mil ID 11.8 | | TopDrip-12 0.6 l/h W.T 18 mil ID 11.8 | | TopDrip-12 0.6 l/h W.T 25 mil ID 11.8 | | |
|--|-----------------------|---------------------------------------|-----------------------|---------------------------------------|-----------------------|---------------------------------------|-----------------------|--|
| 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 | |
| 20 | 0.2 | 0.1 | | | | | | |
| 40 | 1 | 0.4 | 0.2 | 0.1 | 0.1 | | | |
| 60 | 2.7 | 1.1 | 0.6 | 0.3 | 0.2 | 0.2 | 0.1 | |
| 80 | 2.3 | 1.2 | 0.7 | 0.5 | 0.3 | 0.2 | | |
| 100 | 4.1 | 2.1 | 1.3 | 0.8 | 0.6 | 0.3 | | |
| 120 | | 3.4 | 2 | 1.4 | 1 | 0.5 | | |
| 140 | | | 3.1 | 2.1 | 1.5 | 0.7 | | |
| 160 | | | 4.4 | 2.9 | 2.1 | 1 | | |
| 180 | | | | 4 | 2.9 | 1.3 | | |
| 200 | | | | 3.8 | 1.8 | | | |
| 220 | | | | | 4.9 | 2.3 | | |
| 240 | | | | | | 2.9 | | |
| 260 | | | | | | | | |
| 280 | | | | | | | | |
| 300 | | | | | | | | |
| 320 | | | | | | | | |
| 340 | | | | | | | | |
| 360 | | | | | | | | |
| 400 | | | | | | | | |
| TopDrip 12 1.0 l/h, W.T 13 mil ID 11.8 | 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 | |
| 20 | 0.4 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 40 | 2.2 | 0.8 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 | |
| 60 | 6.2 | 2.4 | 1.3 | 0.8 | 0.5 | 0.4 | 0.2 | |
| 80 | 5.2 | 2.7 | 1.6 | 1.1 | 0.8 | 0.4 | | |
| 100 | 9.3 | 4.8 | 2.9 | 2.0 | 1.4 | 0.6 | | |
| 120 | | 7.8 | 4.8 | 3.2 | 2.3 | 1.1 | | |
| 140 | | | 7.2 | 4.8 | 3.5 | 1.6 | | |
| 160 | | | | 10.3 | 6.9 | 4.9 | 2.3 | |
| 180 | | | | | 9.5 | 6.8 | 3.2 | |
| 200 | | | | | | 9.0 | 4.2 | |
| 220 | | | | | | | 5.5 | |
| 240 | | | | | | | 6.9 | |
| 260 | | | | | | | 8.6 | |
| 280 | | | | | | | 10.6 | |
| 300 | | | | | | | 12.7 | |
| 320 | | | | | | | 15.2 | |
| 340 | | | | | | | | |
| 380 | | | | | | | | |
| 400 | | | | | | | | |
| TopDrip 12 1.6 l/h, W.T 13 mil ID 11.8 | 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 | |
| 20 | 0.8 | 0.3 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | |
| 40 | 4.6 | 1.8 | 0.9 | 0.6 | 0.4 | 0.3 | 0.1 | |
| 60 | 5.2 | 2.7 | 1.7 | 1.1 | 0.8 | 0.4 | | |
| 80 | 11.1 | 5.8 | 3.6 | 2.4 | 1.7 | 0.8 | | |
| 100 | | 10.6 | 6.4 | 4.3 | 3.1 | 1.5 | | |
| 120 | | | 10.5 | 7.1 | 5.1 | 2.4 | | |
| 140 | | | | 10.7 | 7.7 | 3.6 | | |
| 160 | | | | | 15.3 | 11.0 | 5.2 | |
| 180 | | | | | | 15.1 | 7.1 | |
| 200 | | | | | | | 9.5 | |
| 220 | | | | | | | 12.4 | |
| 240 | | | | | | | 15.7 | |
| TopDrip 12 1.6 l/h, W.T 15 mil ID 11.8 | 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 | |
| 20 | 0.8 | 0.3 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | |
| 40 | 4.6 | 1.8 | 0.9 | 0.6 | 0.4 | 0.3 | 0.1 | |
| 60 | 13.2 | 5.2 | 2.7 | 1.7 | 1.1 | 0.8 | 0.4 | |
| 80 | 11.1 | 5.8 | 3.6 | 2.4 | 1.7 | 0.8 | | |
| 100 | | 10.6 | 6.4 | 4.3 | 3.1 | 1.5 | | |
| 120 | | | 10.5 | 7.1 | 5.1 | 2.4 | | |
| 140 | | | | 15.9 | 10.7 | 7.7 | 3.6 | |
| 160 | | | | | 15.3 | 11.0 | 5.2 | |
| 180 | | | | | | 15.1 | 7.1 | |
| 200 | | | | | | | 9.5 | |
| 220 | | | | | | | 12.4 | |
| 240 | | | | | | | 15.7 | |
| TopDrip 12 1.6 l/h, W.T 18 mil ID 11.8 | 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 | |
| 20 | 0.8 | 0.3 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | |
| 40 | 4.6 | 1.8 | 0.9 | 0.6 | 0.4 | 0.3 | 0.1 | |
| 60 | 13.2 | 5.2 | 2.7 | 1.7 | 1.1 | 0.8 | 0.4 | |
| 80 | 11.1 | 5.8 | 3.6 | 2.4 | 1.7 | 0.8 | | |
| 100 | | 10.6 | 6.4 | 4.3 | 3.1 | 1.5 | | |
| 120 | | | 10.5 | 7.1 | 5.1 | 2.4 | | |
| 140 | | | | 15.9 | 10.7 | 7.7 | 3.6 | |
| 160 | | | | | 15.3 | 11.0 | 5.2 | |
| 180 | | | | | | 15.1 | 7.1 | |
| 200 | | | | | | | 9.5 | |
| 220 | | | | | | | 12.4 | |
| 240 | | | | | | | 15.7 | |
| TopDrip 12 1.6 l/h, W.T 25 mil ID 11.8 | 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 | |
| 20 | 0.7 | 0.3 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | |
| 40 | 4.0 | 1.6 | 0.8 | 0.5 | 0.3 | 0.2 | 0.1 | |
| 60 | 11.4 | 4.6 | 2.4 | 1.5 | 1.0 | 0.7 | 0.3 | |
| 80 | 24.3 | 9.8 | 5.2 | 3.2 | 2.2 | 1.6 | 0.7 | |
| 100 | | 17.7 | 9.4 | 5.8 | 3.9 | 2.8 | 1.3 | |
| 120 | | | 15.3 | 9.5 | 6.4 | 4.6 | 2.2 | |
| 140 | | | | 23.2 | 14.3 | 9.7 | 7.0 | |
| 160 | | | | | 20.6 | 14.0 | 10.1 | |
| 180 | | | | | | 19.2 | 13.9 | |
| 200 | | | | | | | 18.5 | |
| 220 | | | | | | | 18.9 | |
| 240 | | | | | | | 14.6 | |
| 260 | | | | | | | 18.2 | |
| 280 | | | | | | | 22.4 | |

THIN TO MEDIUM-WALLED PC FLAT DRIPLINE

TopDrip I2 mm**HEAD LOSS (m) IN RELATION TO LATERAL LENGTH (m), DRIPPER FLOW RATE AND SPACING (cm)**

TopDrip I2 2.0 l/h, W.T 13 mil ID 11.8

| Dripper spacing (cm) | | | | | | | |
|----------------------|-----|-----|------|-----|------|-----|-----|
| Lateral length(m) | 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 | | |
| | | | | | 10.5 | | |

TopDrip I2 2.0 l/h, W.T 15 mil ID 11.8

| Dripper spacing (cm) | | | | | | | |
|----------------------|-----|------|------|------|------|-----|-----|
| Lateral length(m) | 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 | | |
| | | | | | 14.0 | | |

TopDrip I2 2.0 l/h, W.T 18 mil ID 11.8

| Dripper spacing (cm) | | | | | | | |
|----------------------|-----|------|------|------|------|-----|-----|
| Lateral length(m) | 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 | 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 | | | | | 16.1 | 7.6 | |
| 180 | | | | | 10.5 | | |
| | | | | | 14.0 | | |

TopDrip I2 2.0 l/h, W.T 25 mil ID 11.8

| Dripper spacing (cm) | | | | | | | |
|----------------------|------|------|------|------|------|------|-----|
| Lateral length(m) | 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 I2 2.2 l/h, W.T 13 mil ID 11.8

| Dripper spacing (cm) | | | | | | | |
|----------------------|-----|------|------|------|------|-----|-----|
| Lateral length(m) | 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 | | |
| | | | | | 12.4 | | |
| | | | | | 12.4 | | |
| | | | | | 16.6 | | |

TopDrip I2 2.2 l/h, W.T 15 mil ID 11.8

| Dripper spacing (cm) | | | | | | | |
|----------------------|-----|------|------|------|------|-----|-----|
| Lateral length(m) | 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 | 2.5 | |
| 120 | | | 18.0 | 12.1 | 8.7 | 4.1 | |
| 140 | | | | 13.2 | 6.3 | | |
| 160 | | | | | 9.0 | | |
| 180 | | | | | 12.4 | | |
| | | | | | 16.6 | | |

TopDrip I2 2.2 l/h, W.T 18 mil ID 11.8

| Dripper spacing (cm) | | | | | | | |
|----------------------|-----|------|------|------|------|------|------|
| Lateral length(m) | 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 | 0.6 |
| 80 | | 16.6 | 8.8 | 5.5 | 3.7 | 2.7 | 1.3 |
| 100 | | 16.1 | 10.0 | 6.8 | 4.9 | 3.2 | |
| 120 | | | 16.3 | 11.1 | 8.0 | 5.8 | |
| 140 | | | | 24.7 | 16.8 | 12.2 | 5.8 |
| 160 | | | | | 24.1 | 17.5 | 8.4 |
| 180 | | | | | | 24.1 | 11.6 |
| 200 | | | | | | | 15.5 |
| 220 | | | | | | | 20.1 |
| 240 | | | | | | | 25.6 |

TopDrip-I2 3.5 l/h W.T 13 mil ID 11.8

| Dripper spacing (cm) | | | | | | | |
|----------------------|-----|-----|-----|-----|-----|-----|-----|
| Lateral length(m) | 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 | | | 6.1 | 4.1 | 3 | 1.5 | |
| 80 | | | | 9.1 | 6.6 | 3.2 | |
| 100 | | | | | 5.8 | | |
| 120 | | | | | 9.4 | | |

TopDrip-I2 3.5 l/h W.T 15 mil ID 11.8

| Dripper spacing (cm) | | | | | | | |
|----------------------|-----|-----|------|-----|------|-----|-----|
| Lateral length(m) | 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-I2 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 | 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

| Dripper spacing (cm) | | | | | | | |
|----------------------|-----|-----|-----|-----|-----|-----|-----|
| Lateral length(m) | 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 | | |
| 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

| Dripper spacing (cm) | | | | | | | | |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Lateral length(m) | 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 | | | |
| 100 | 1.6 | 0.7 | 0.4 | 0.2 | 0.1 | 0.1 | | |
| 120 | 2.6 | 1.1 | 0.6 | 0.4 | 0.2 | 0.1 | | |
| 140 | 3.9 | 1.6 | 0.9 | 0.5 | 0.4 | 0.3 | | |
| 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

| Dripper spacing (cm) | | | | | | | | |
|----------------------|------|------|------|------|------|------|-----|-----|
| Lateral length(m) | 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 | | | |
| 100 | 1.6 | 0.7 | 0.4 | 0.2 | 0.1 | 0.1 | | |
| 120 | 2.7 | 1.1 | 0.6 | 0.4 | 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.T 13-15 mil, ID 16.2

| Dripper spacing (cm) | | | | | | | |
|----------------------|------|------|------|------|------|------|-----|
| Lateral length(m) | 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 18 mil, ID 15.8

| Dripper spacing (cm) | | | | | | | |
|----------------------|-----|-----|-----|------|------|------|------|
| Lateral length(m) | 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 |
| 260 | | | | 11.1 | 7 | 4.8 | 3.5 |
| 280 | | | | | 8.6 | 5.9 | 4.3 |
| 300 | | | | | 10.3 | 7.2 | 5.2 |
| 320 | | | | | | 8.5 | 6.3 |
| 340 | | | | | | 10.1 | 7.4 |
| 360 | | | | | | | 8.6 |
| 380 | | | | | | | 10.0 |
| 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 25 mil, ID 15.6

| Dripper spacing (cm) | | | | | | | |
|----------------------|------|------|------|------|------|-----|-----|
| Lateral length(m) | 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 |
| 260 | | | 21.5 | 11.8 | 7.4 | 5.2 | 3.8 |
| 280 | | | | 14.4 | 9.1 | 6.3 | 4.6 |
| 300 | | | | 17.4 | 11.0 | 7.7 | 5.6 |
| 320 | | | | 20.9 | 13.2 | 9.1 | 6.7 |

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

| Lateral length(m) | Dripper spacing (cm) | | | | | | |
|-------------------|----------------------|------|-----|------|-----|------|------|
| | 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 |
| 220 | | | | | 9.2 | 6.4 | 4.7 |
| 240 | | | | | | 11.7 | 8.1 |
| 260 | | | | | | | 5.9 |
| 280 | | | | | | | 2.9 |
| 300 | | | | | | | 10.1 |
| 320 | | | | | | | 7.4 |
| 340 | | | | | | | 3.6 |
| 360 | | | | | | | 12.3 |
| 380 | | | | | | | 9.1 |
| 400 | | | | | | | 4.4 |
| | | | | | | | 10.9 |
| | | | | | | | 5.4 |
| | | | | | | | 6.4 |
| | | | | | | | 7.6 |
| | | | | | | | 8.9 |
| | | | | | | | 10.3 |
| | | | | | | | 11.9 |

TopDrip 16, 1.6 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 | 0.7 | 0.3 | 0.2 | 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 | 3.2 |
| 260 | | | | | | 11.0 | 4.0 |
| 280 | | | | | | | 9.9 |
| 300 | | | | | | | 4.9 |
| 320 | | | | | | | 12.0 |
| 340 | | | | | | | 5.9 |
| 360 | | | | | | | 7.1 |
| 380 | | | | | | | 8.4 |
| 400 | | | | | | | 9.8 |
| | | | | | | | 11.4 |

TopDrip 16, 1.6 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 | 0.7 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | |
| 60 | 2.2 | 0.9 | 0.5 | 0.3 | 0.2 | 0.2 | 0.1 |
| 80 | 4.7 | 2 | 1.1 | 0.7 | 0.5 | 0.3 | 0.2 |
| 100 | 8.6 | 3.6 | 2 | 1.2 | 0.9 | 0.6 | 0.3 |
| 120 | 14 | 5.9 | 3.2 | 2 | 1.4 | 1.0 | 0.5 |
| 140 | 21.2 | 9 | 4.9 | 3.1 | 2.2 | 1.6 | 0.8 |
| 160 | | 12.9 | 7.1 | 4.5 | 3.1 | 2.3 | 1.1 |
| 180 | | 17.7 | 9.8 | 6.2 | 4.3 | 3.2 | 1.6 |
| 200 | | 23.7 | 13.0 | 8.2 | 5.7 | 4.2 | 2.1 |
| 220 | | | 16.9 | 10.7 | 7.4 | 5.5 | 2.7 |
| 240 | | | | 21.5 | 13.6 | 9.5 | 3.4 |
| 260 | | | | | 17 | 11.8 | 8.7 |
| 280 | | | | | | 20.8 | 14.4 |
| 300 | | | | | | | 17.5 |
| 320 | | | | | | | 12.9 |
| 340 | | | | | | | 6.4 |
| 360 | | | | | | | 20.9 |
| 380 | | | | | | | 15.4 |
| 400 | | | | | | | 7.6 |
| | | | | | | | 18.2 |
| | | | | | | | 9 |
| | | | | | | | 21.3 |
| | | | | | | | 10.6 |
| | | | | | | | 12.3 |
| | | | | | | | 14.2 |
| | | | | | | | 16.3 |
| | | | | | | | 18.5 |

TopDrip 16, 2.0l/h, W.T 13-15mil, ID 16.2

| 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 | 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

| 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 | 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 |
| 240 | | | | | | 13 | 9.5 |
| 260 | | | | | | | 4.7 |
| 280 | | | | | | | 16.2 |
| 300 | | | | | | | 11.9 |
| 320 | | | | | | | 5.9 |
| 340 | | | | | | | 12.3 |
| 360 | | | | | | | 14.5 |
| 380 | | | | | | | 16.8 |

TopDrip 16, 2.0l/h, W.T 25mil, 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 | 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 |
| 220 | | | | | | 15.4 | 10.7 |
| 240 | | | | | | | 7.8 |
| 260 | | | | | | | 3.9 |
| 280 | | | | | | | 20.9 |
| 300 | | | | | | | 15.3 |
| 320 | | | | | | | 7.6 |
| 340 | | | | | | | 21.5 |
| 360 | | | | | | | 11 |
| 380 | | | | | | | 13 |
| 400 | | | | | | | 15.2 |
| | | | | | | | 17.7 |
| | | | | | | | 20.4 |

THIN TO MEDIUM-WALLED PC FLAT DRIPLINE

TopDrip 16 mm

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

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

| 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 | 3.3 | 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

| 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 | 1.2 | 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

| 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 | 1.2 | 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 | 3.6 | 2.6 |
| 200 | | 21.1 | 14 | 9.7 | 7.2 | 5.5 | 3.5 |
| 220 | | | 18.1 | 12.7 | 9.3 | 6.6 | 4.6 |
| 240 | | | | | 16.1 | 11.8 | 5.8 |
| 260 | | | | | | 20 | 14.8 |
| 280 | | | | | | | 18.1 |
| 300 | | | | | | | 22 |
| 320 | | | | | | | 13 |
| 340 | | | | | | | 15.4 |
| 360 | | | | | | | 18 |
| 380 | | | | | | | 21 |

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

| Lateral length(m) | Dripper spacing (cm) | | | | | | |
|-------------------|----------------------|-----|-----|-----|-----|-----|-----|
| | 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

| Lateral length(m) | Dripper spacing (cm) | | | | | | |
|-------------------|----------------------|-----|-----|-----|-----|-----|-----|
| | 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

| Lateral length(m) | Dripper spacing (cm) | | | | | | |
|-------------------|----------------------|------|------|------|-----|------|------|
| | 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

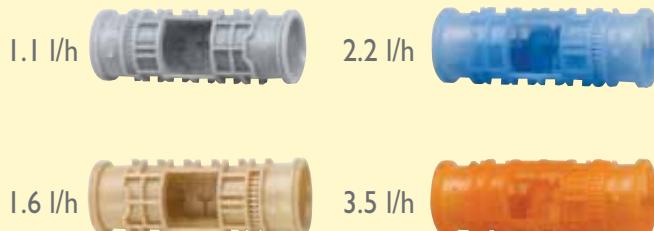
TopDrip 22 mm**HEAD LOSS (m) IN RELATION TO LATERAL LENGTH (m), DRIPPER FLOW RATE AND SPACING (cm)**

| TopDrip-22 0.6 l/h W.T 13-25 mil ID 11.8 | | | | | | | | TopDrip 22, 1.0l/h, W.T 13-25mil, ID 22.2 | | | | | | | | TopDrip 22, 1.6l/h, W.T 13-25mil, ID 22.2 | | | | | | | |
|--|-----|-----|-----|-----|-----|-----|-----|---|------|------|-----|-----|-----|-----|-----|---|------|------|------|-----|-----|-----|-----|
| 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 |
| 20 | | | | | | | | 40 | 0.1 | 0.1 | | | | | | 40 | 0.2 | 0.1 | 0.1 | | | | |
| 40 | 0.1 | | | | | | | 60 | 0.3 | 0.1 | 0.1 | 0.1 | | | | 60 | 0.5 | 0.2 | 0.1 | 0.1 | 0.1 | | |
| 60 | 0.2 | 0.1 | | | | | | 80 | 0.6 | 0.3 | 0.2 | 0.1 | 0.1 | | | 80 | 1.0 | 0.5 | 0.3 | 0.2 | 0.1 | 0.1 | |
| 80 | 0.3 | 0.1 | 0.1 | 0.1 | | | | 100 | 0.9 | 0.4 | 0.2 | 0.2 | 0.1 | 0.1 | | 100 | 1.7 | 0.8 | 0.5 | 0.3 | 0.2 | 0.2 | 0.1 |
| 100 | 0.5 | 0.2 | 0.1 | 0.1 | 0.1 | | | 120 | 1.4 | 0.7 | 0.4 | 0.2 | 0.2 | 0.1 | 0.1 | 120 | 2.7 | 1.2 | 0.7 | 0.5 | 0.3 | 0.2 | 0.1 |
| 120 | 0.7 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | | 140 | 2 | 0.9 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 | 140 | 3.8 | 1.8 | 1.0 | 0.7 | 0.5 | 0.4 | 0.2 |
| 140 | 1.1 | 0.5 | 0.3 | 0.2 | 0.1 | 0.1 | | 160 | 2.8 | 1.3 | 0.7 | 0.5 | 0.3 | 0.3 | 0.1 | 160 | 5.3 | 2.5 | 1.4 | 0.9 | 0.7 | 0.5 | 0.3 |
| 160 | 1.4 | 0.7 | 0.4 | 0.2 | 0.2 | 0.1 | | 180 | 3.6 | 1.7 | 1.0 | 0.6 | 0.5 | 0.3 | 0.2 | 180 | 7.1 | 3.3 | 1.9 | 1.3 | 0.9 | 0.7 | 0.3 |
| 180 | 1.9 | 0.9 | 0.5 | 0.3 | 0.2 | 0.2 | 0.1 | 200 | 4.7 | 2.2 | 1.3 | 0.8 | 0.6 | 0.4 | 0.2 | 200 | 9.2 | 4.3 | 2.5 | 1.6 | 1.2 | 0.9 | 0.4 |
| 200 | 2.4 | 1.1 | 0.6 | 0.4 | 0.3 | 0.2 | 0.1 | 220 | 5.9 | 2.7 | 1.6 | 1.0 | 0.7 | 0.6 | 0.3 | 220 | 11.7 | 5.5 | 3.2 | 2.1 | 1.5 | 1.1 | 0.6 |
| 220 | 2.9 | 1.4 | 0.8 | 0.5 | 0.4 | 0.3 | 0.1 | 240 | 7.3 | 3.4 | 2.0 | 1.3 | 0.9 | 0.7 | 0.3 | 240 | 14.6 | 6.8 | 3.9 | 2.6 | 1.9 | 1.4 | 0.7 |
| 240 | 3.6 | 1.7 | 1 | 0.6 | 0.4 | 0.3 | 0.2 | 260 | 8.8 | 4.1 | 2.4 | 1.6 | 1.1 | 0.8 | 0.4 | 260 | 17.9 | 8.3 | 4.8 | 3.2 | 2.3 | 1.7 | 0.9 |
| 260 | 4.3 | 2 | 1.2 | 0.8 | 0.5 | 0.4 | 0.2 | 280 | 10.6 | 4.9 | 2.9 | 1.9 | 1.3 | 1.0 | 0.5 | 280 | 10.1 | 5.8 | 3.8 | 2.7 | 2.1 | 1.1 | |
| 280 | | | | | | | | 300 | 12.6 | 5.8 | 3.4 | 2.2 | 1.6 | 1.2 | 0.6 | 300 | 12.0 | 7.0 | 4.6 | 3.3 | 2.4 | 1.3 | |
| 300 | 2.8 | 1.6 | 1.1 | 0.8 | 0.6 | 0.3 | | 320 | 14.6 | 6.9 | 4.0 | 2.6 | 1.9 | 1.4 | 0.7 | 320 | 14.2 | 8.3 | 5.4 | 3.9 | 2.9 | 1.5 | |
| 320 | 3.3 | 1.9 | 1.2 | 0.9 | 0.7 | 0.3 | | 340 | 8.0 | 4.6 | 3.0 | 2.2 | 1.6 | 0.8 | | 340 | 16.6 | 9.7 | 6.3 | 4.5 | 3.4 | 1.7 | |
| 340 | 3.8 | 2.2 | 1.4 | 1 | 0.8 | 0.4 | | 360 | 9.2 | 5.4 | 3.5 | 2.5 | 1.9 | 1.0 | | 360 | 11.2 | 7.4 | 5.2 | 3.9 | 2.0 | | |
| 360 | 4.3 | 2.5 | 1.6 | 1.2 | 0.9 | 0.4 | | 380 | 10.6 | 6.2 | 4.0 | 2.9 | 2.1 | 1.1 | | 380 | 12.9 | 8.5 | 6.1 | 4.5 | 2.3 | | |
| 380 | 5 | 2.9 | 1.9 | 1.3 | 1 | 0.5 | | 400 | 12.0 | 7.0 | 4.6 | 3.3 | 2.4 | 1.3 | | 400 | 14.8 | 9.7 | 6.9 | 5.2 | 2.7 | | |
| 400 | 3.3 | 2.1 | 1.5 | 1.1 | 0.6 | | | 420 | 13.6 | 7.9 | 5.2 | 3.7 | 2.8 | 1.4 | | 420 | 16.8 | 11.0 | 7.9 | 5.9 | 3.0 | | |
| 420 | 3.7 | 2.4 | 1.7 | 1.3 | 0.7 | | | 440 | 15.3 | 8.9 | 5.9 | 4.2 | 3.1 | 1.6 | | 440 | 12.5 | 8.9 | 6.7 | 3.4 | | | |
| 440 | 4.1 | 2.7 | 1.9 | 1.4 | 0.7 | | | 460 | | 10.0 | 6.6 | 4.7 | 3.5 | 1.8 | | 460 | | 14.0 | 10.0 | 7.5 | 3.9 | | |
| 460 | 4.6 | 3 | 2.1 | 1.6 | 0.8 | | | 480 | | 11.2 | 7.3 | 5.2 | 3.9 | 2.0 | | 480 | | 15.7 | 11.2 | 8.4 | 4.3 | | |
| 480 | | 3.3 | 2.4 | 1.8 | 0.9 | | | 500 | | 12.4 | 8.2 | 5.8 | 4.3 | 2.2 | | 500 | | 17.5 | 12.5 | 9.4 | 4.8 | | |

| TopDrip 22, 2.0l/h, W.T 13-25mil, ID 22.2 | | | | | | | | TopDrip 22, 2.2l/h, W.T 13-25mil, ID 22.2 | | | | | | | | TopDrip-22 3.5 l/h W.T 13-25 mil ID 11.8 | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|--|--|--|
| 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 | | | |
| 40 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 40 | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 20 | 0.1 | 0.1 | | | | | | | | |
| 60 | 0.7 | 0.4 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 60 | 0.8 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 40 | 0.6 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | | | |
| 80 | 1.4 | 0.7 | 0.4 | 0.3 | 0.2 | 0.2 | 0.1 | 80 | 1.6 | 0.8 | 0.5 | 0.3 | 0.2 | 0.2 | 0.1 | 60 | 1.5 | 0.7 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 | | | |
| 100 | 2.3 | 1.1 | 0.7 | 0.5 | 0.3 | 0.3 | 0.2 | 100 | 2.7 | 1.3 | 0.8 | 0.5 | 0.4 | 0.3 | 0.2 | 80 | 3 | 1.4 | 0.8 | 0.5 | 0.4 | 0.3 | 0.2 | | | |
| 120 | 3.6 | 1.7 | 1 | 0.7 | 0.5 | 0.4 | 0.2 | 120 | 4.1 | 2 | 1.2 | 0.7 | 0.6 | 0.4 | 0.2 | 100 | 2.5 | 1.4 | 0.9 | 0.7 | 0.5 | 0.3 | 0.3 | | | |
| 140 | 5.3 | 2.5 | 1.5 | 1 | 0.7 | 0.5 | 0.3 | 140 | 6 | 2.8 | 1.7 | 1.1 | 0.8 | 0.6 | 0.3 | 120 | 3.9 | 2.3 | 1.5 | 1.1 | 0.8 | 0.4 | 0.4 | | | |
| 160 | 7.3 | 3.4 | 2 | 1.3 | 1 | 0.7 | | 160 | 3.9 | 2.3 | 1.5 | 1.1 | 0.8 | 0.5 | | 140 | 3.4 | 2.2 | 1.6 | 1.2 | 0.6 | | | | | |
| 180 | 4.6 | 2.7 | 1.8 | 1.3 | 1 | 0.5 | | 180 | 5.3 | 3.1 | 2.1 | 1.5 | 1.1 | 0.6 | | 160 | 4.8 | 3.1 | 2.2 | 1.7 | 0.9 | | | | | |
| 200 | 6 | 3.5 | 2.3 | 1.7 | 1.3 | 0.7 | | 200 | 6.5 | 4.1 | 2.7 | 1.9 | 1.5 | 0.8 | | 180 | | 4.3 | 3.1 | 2.3 | 1.2 | | | | | |
| 220 | 7.6 | 4.5 | 3 | 2.1 | 1.6 | 0.8 | | 220 | 5.2 | 3.4 | 2.5 | 1.8 | 1 | | | 200 | | | 4 | 3 | 1.6 | | | | | |
| 240 | | 5.6 | 3.7 | 2.6 | 2 | 1 | | 240 | 6.5 | 4.3 | 3.1 | 2.3 | 1.2 | | | 220 | | | | 3.9 | 2 | | | | | |
| 260 | | 6.9 | 4.5 | 3.2 | 2.4 | 1.3 | | 260 | 8 | 5.3 | 3.8 | 2.8 | 1.5 | 1 | | 240 | | | | | 4.9 | 2.5 | | | | |
| 280 | | | 5.5 | 3.9 | 2.9 | 1.5 | | 280 | | 6.4 | 4.6 | 3.4 | 1.8 | | | 260 | | | | | | | | | | |
| 300 | | | 6.6 | 4.7 | 3.5 | 1.8 | | 300 | | 7.6 | 5.5 | 4.1 | 2.1 | | | 280 | | | | | | | | | | |
| 320 | | | 7.8 | 5.5 | 4.2 | 2.2 | | 320 | | | 6.5 | 4.9 | 2.5 | | | 300 | | | | | | | | | | |
| 340 | | | | 6.5 | 4.9 | 2.5 | | 340 | | | 7.6 | 5.7 | 2.9 | | | | | | | | | | | | | |
| 360 | | | | 7.6 | 5.7 | 2.9 | | 360 | | | | 6.6 | 3.4 | | | | | | | | | | | | | |
| 380 | | | | | 6.5 | 3.4 | | 380 | | | | 7.7 | 4 | | | | | | | | | | | | | |
| 400 | | | | | | 7.5 | 3.9 | 400 | | | | | 4.5 | | | | | | | | | | | | | |
| 420 | | | | | | | 4.4 | 420 | | | | | 5.2 | | | | | | | | | | | | | |
| 440 | | | | | | | 5 | 440 | | | | | 5.8 | | | | | | | | | | | | | |
| 460 | | | | | | | 5.6 | 460 | | | | | 6.6 | | | | | | | | | | | | | |
| 480 | | | | | | | 6.3 | 480 | | | | | 7.4 | | | | | | | | | | | | | |
| 500 | | | | | | | 7 | 500 | | | | | 8.2 | | | | | | | | | | | | | |

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

| Dripper spacing (cm) | | | | | | | |
|----------------------|------|------|------|------|------|------|-----|
| Lateral length(m) | 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 | 17.2 | 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

| Dripper spacing (cm) | | | | | | | |
|----------------------|------|-----|------|------|------|------|-----|
| Lateral length(m) | 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 | 16.8 | 5.4 | 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

| Dripper spacing (cm) | | | | | | | |
|----------------------|-----|-----|-----|-----|------|------|------|
| Lateral length(m) | 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

| Dripper spacing (cm) | | | | | | | |
|----------------------|-----|-----|-----|-----|------|------|------|
| Lateral length(m) | 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

4 l/h



2 l/h



1 l/h

**STRUCTURE AND FEATURES**

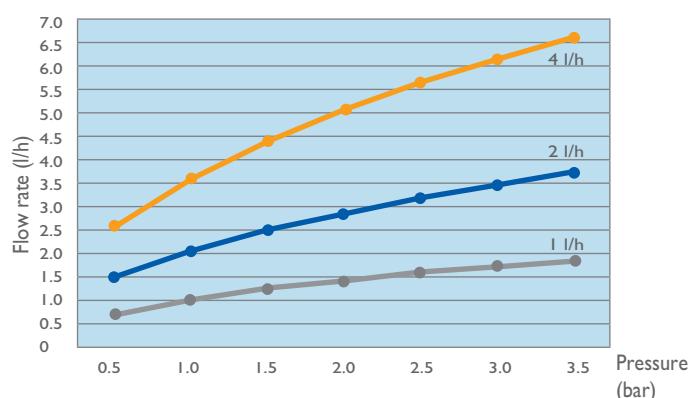
- Compact cylindrical design with double water inlets and outlets ensures high clog resistance and improved durability
- Wide water passages facilitates constant flushing of sand and dirt particles, contributing to efficient self-cleaning
- Wide range of wall thicknesses: 0.65-1.15 mm
- Low CV ensures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

FLOW RATE VS. PRESSURE

| P W.T (bar) | 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 Dripper Spacing (cm) | | | | | | | |
|-----------------------|---------------------|---|----|----|----|----|----|-----|--|
| Nominal diameter (mm) | Wall thickness (mm) | 20 | 30 | 40 | 50 | 60 | 70 | 100 | |

TifDrip 16/I

| | | | | | | | | |
|----|------|----|----|-----|-----|-----|-----|-----|
| 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

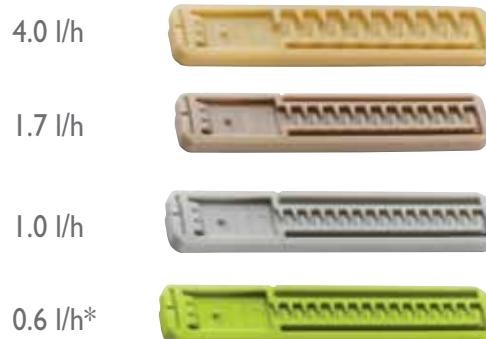


APPLICATIONS

- 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

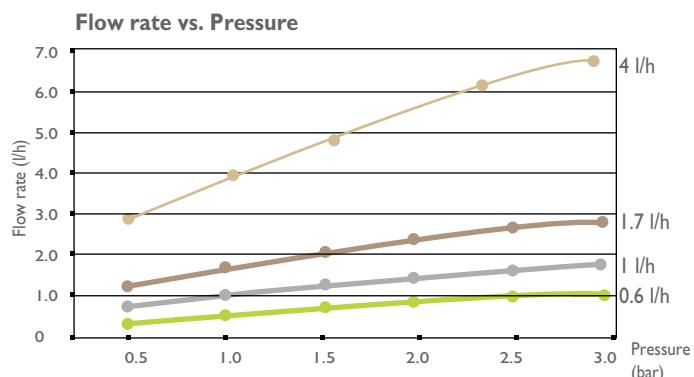
STRUCTURE AND FEATURES

- 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)



* 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 6-15 mil | 1.0 6-18 mil | 25 mil | 35 mil | 1.7 6-18 mil | 25 mil | 35 mil | 4.0 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 (mm) | Wall thickness (mm) (mil) | OD (mm) | ID (mm) | Max. pressure (bar) | KD | Connectors type | Packaging and shipping | | | | | | |
|--------------------------|------------------------------|------------|------------|------------------------|-----|-----------------|------------------------|------|--------------------------|------------------|----------------------------|----------------------------|-------------------------------|
| | | | | | | | 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 |
| | 0.90 | 35 | 16.2 | 14.4 | 3.0 | 0.105 | • | | 400 | 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 |

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 |
| | 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 |

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

TalDrip 1.7 l/h

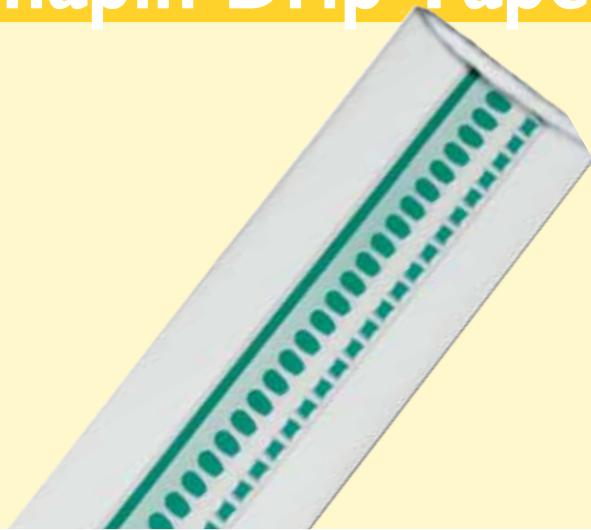
| Dripline Type | | | Dripper Spacing (cm) | | | | | |
|-----------------------|----------------------|------------------------|----------------------|------|------|------|------|-------|
| Nominal diameter (mm) | Wall thickness (mil) | Internal diameter (mm) | 20 | 30 | 40 | 50 | 60 | 70 |
| 12 | 13 | 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 |
| | 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 |
| | 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 |
| | 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 |
| | 8 - 25 | 22.2 | 71 | 98 | 122 | 143 | 164 | 183 |

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 |

- The above flow rates are available in 16 mm and 22 mm diameter, from 5 Mil to 15 Mil
- Recommended operating pressure is 0.7 bar (10 PSI). Equivalent flow rates at 0.6 bar (8 PSI) are also included in this table
- 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 |

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

THIN WALLED DRIP TAPE

Chapin-Drip Tape

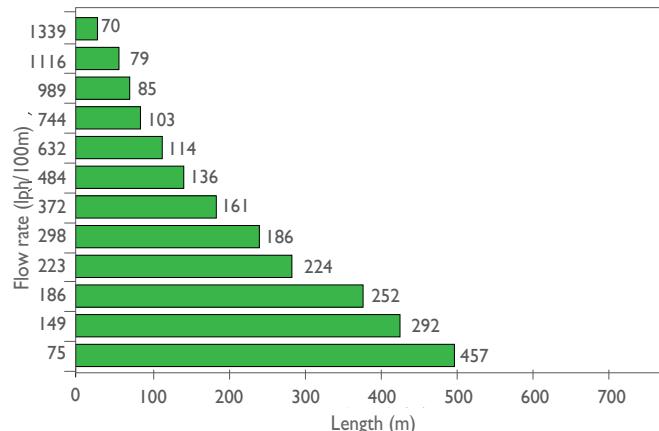
CHAPIN PACKAGING AND SHIPPING

| 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 |

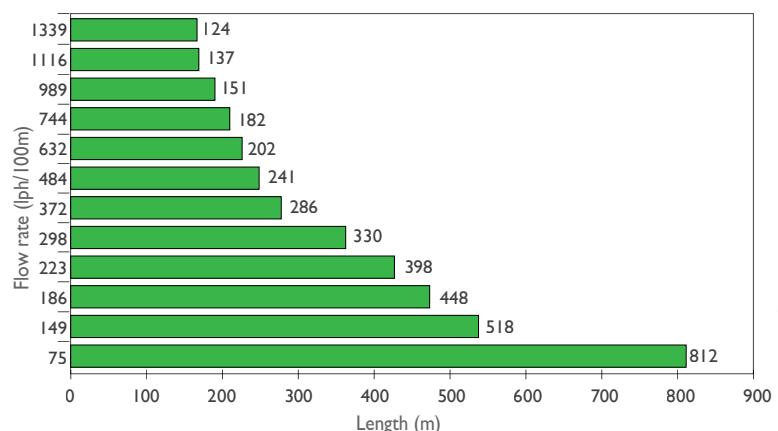


MAXIMUM LATERAL LENGTH (m)*

BTF & DELUXE 16 mm

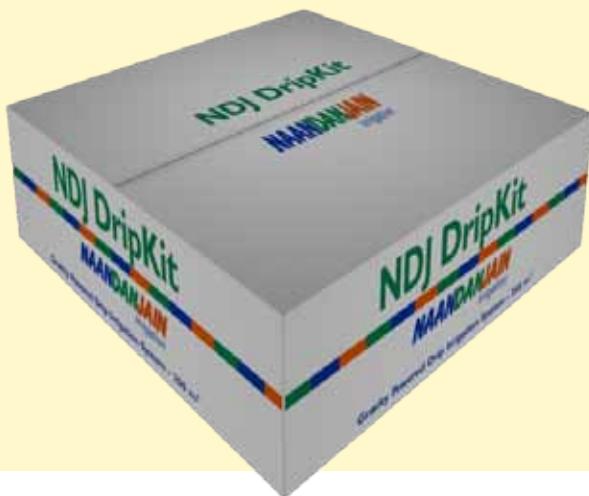


BTF & DELUXE 22 mm

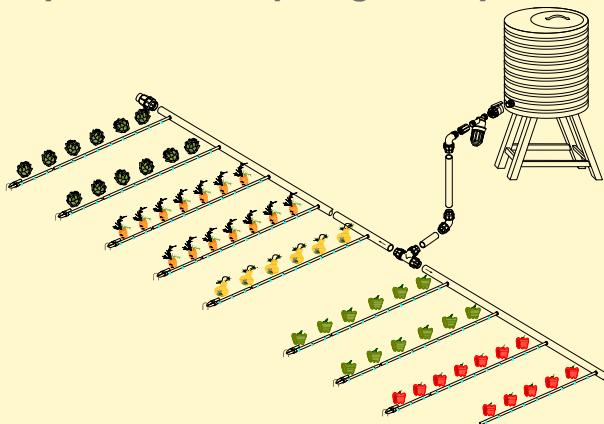


* EU - 90% uniformity, on flat ground, when inlet pressure is 0.7 bar

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

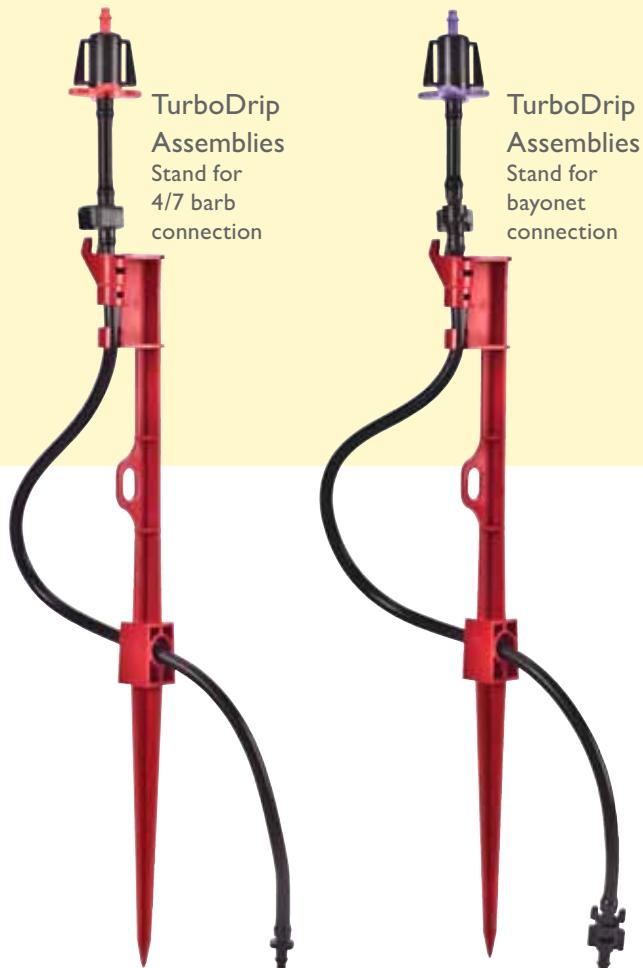
| Product | Cat. # | Weight per kit | Kits per 20 ft container* | Kits per 40 ft container* |
|---------------------------|---------------|-----------------------|----------------------------------|----------------------------------|
| DripKit 500m ² | J67002J0010 | 20 kg | 189 | 399 |
| DripKit 250m 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

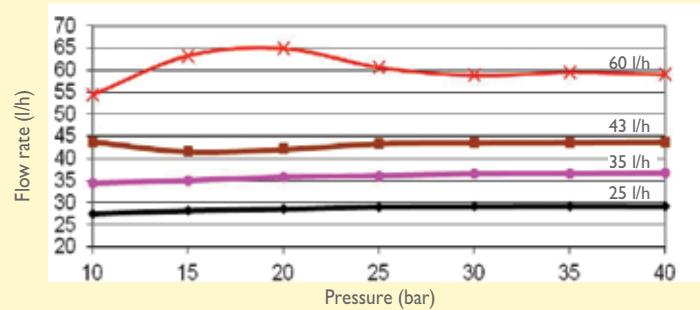
STRUCTURE AND FEATURES

- 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 |



27 l/h 35 l/h 43 l/h 60 l/h

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 |



27 l/h 35 l/h 43 l/h 60 l/h

ON-LINE PC BUTTON DRIPPERS **ClickTif HD**



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)

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



COLOR CODE



Maximum recommended lateral length (m) on flat ground*

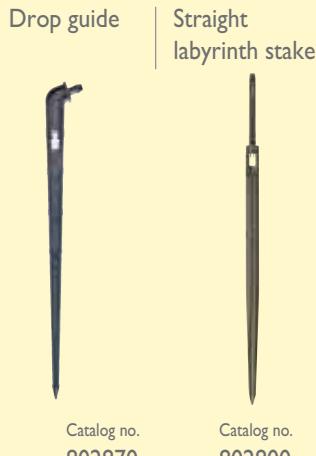
| Dripper flow rate (l/h) | Inlet pressure (m) | 16mm ID - 13.4mm KD= 0.4 | | | | | 20mm ID - 17.0mm KD = 0.15 | | | | |
|-------------------------|--------------------|--------------------------|-----|-----|-----|-----|----------------------------|-----|-----|-----|-----|
| | | Dripper spacing (cm) | | | | | 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 | 40 | 169 | 263 | 341 | 409 | 472 | 258 | 405 | 527 | 635 | 733 |
| | 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 |
| 3 | 35 | 119 | 187 | 243 | 293 | 339 | 184 | 290 | 378 | 454 | 525 |
| | 40 | 125 | 197 | 257 | 309 | 358 | 195 | 306 | 397 | 480 | 554 |
| | 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 |
| 4 | 30 | 86 | 135 | 175 | 211 | 244 | 132 | 208 | 272 | 328 | 378 |
| | 35 | 91 | 143 | 187 | 225 | 260 | 142 | 222 | 289 | 348 | 403 |
| | 40 | 97 | 151 | 197 | 237 | 275 | 150 | 235 | 307 | 368 | 427 |
| | 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 |
| 8 | 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 |
| | 40 | 81 | 129 | 166 | 199 | 230 | 123 | 195 | 252 | 306 | 352 |
| | 10 | 25 | 41 | 51 | 61 | 71 | 40 | 62 | 82 | 98 | 114 |
| | 15 | 33 | 51 | 67 | 81 | 91 | 52 | 80 | 104 | 125 | 145 |
| 12 | 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 |
| | 40 | 51 | 80 | 104 | 125 | 145 | 78 | 123 | 161 | 194 | 225 |
| | 10 | 19 | 31 | 40 | 48 | 56 | 31 | 47 | 63 | 75 | 87 |
| 12 | 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

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:

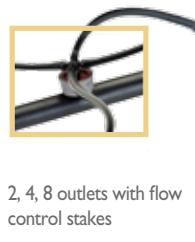
1. Use labyrinth stakes to improve uniformity
2. Minimum recommended working pressure: 1 bar
3. Maximum recommended flow per outlet: 2.0 l/h
4. Minimum recommended flow per outlet:
 - Flat surface and uniform tube length - 0.5 l/h
 - On a slope or uneven elevation - 1.0 l/h

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

3/5 mm outlet connectors



Multi-level connectors



2.5 mm Punch

Special design for comfortable punching and inserting of ClickTif drippers



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 |

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≤ 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

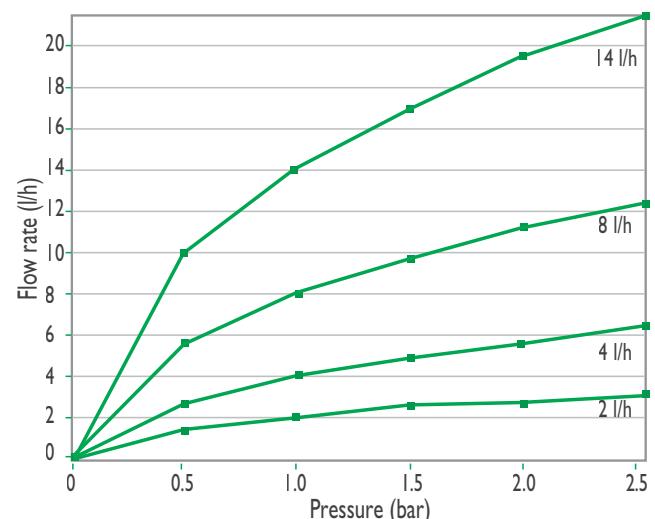
TECHNICAL DATA AND COLOR CODE

| 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 |

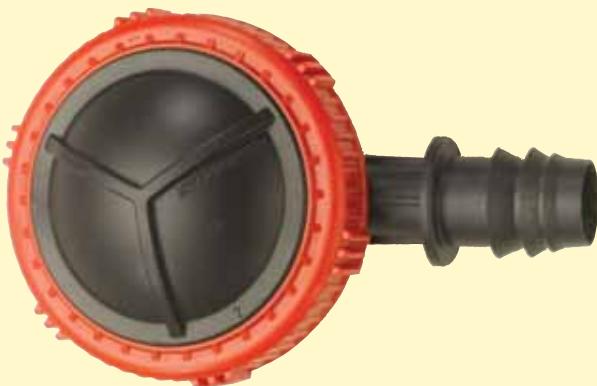
* At operating pressure of 1 bar

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.

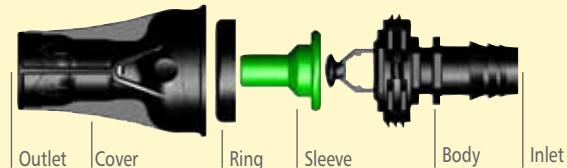
PRODUCT RANGE

| 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 $\frac{1}{2}$ " 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

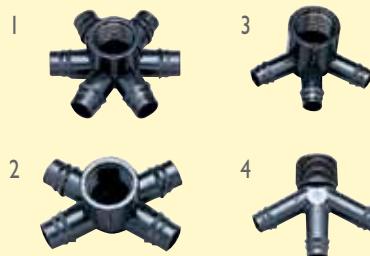


Connectors

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 | |
| 4 | Barbed connector 1/2" male | 6424040630 | 6424040610 | 6424040005 | 100 |
| 5 | Elbow barb 3/4" male | 6424040450 | 6424040445 | 6424040410 | |



Barbed Connectors

| | Description | Item # | | Item # 12 mm | Qty/Bag |
|---|-------------------------------------|--------------|--------------|--------------|---------|
| 1 | Barbed connector silver ring 20 x20 | 483222 | | | |
| 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 | |
| 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 AmmonDrip & TopDrip * | J67202J9901 | J67202J9900 | | |



* Installation must be done under water pressure

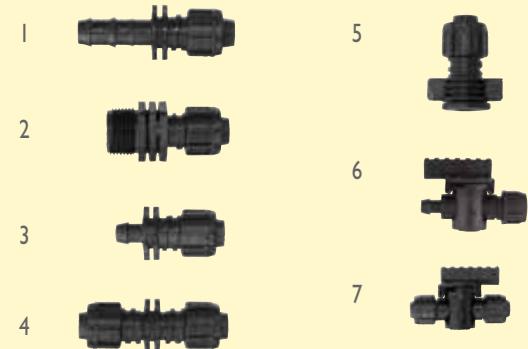
For above 0.63 mm wall thicknesses

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 |

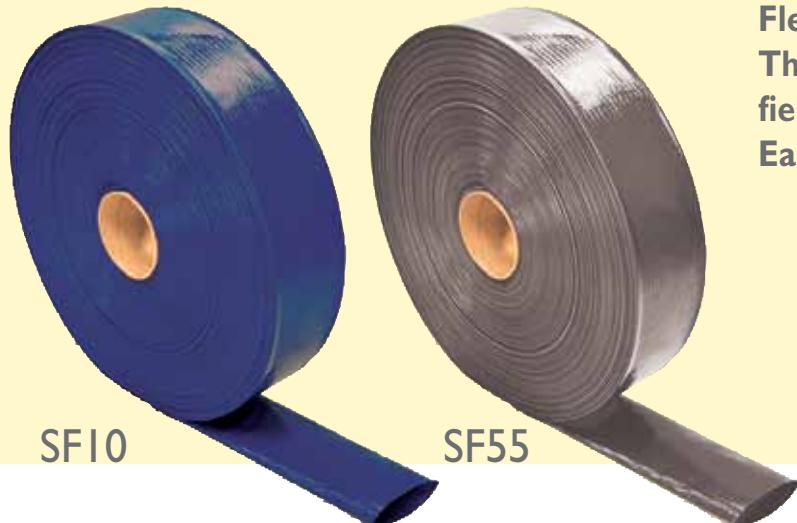


RING CONNECTORS: THIN-WALLED 16; 17MM, 10-35MIL FOR TALDRIP & TOPDRIP

| | Description | Item # Black 6-18 mil | Item # Brown 25 mil | Item # Red 35 mil | Qty/ Bag |
|---|---|-----------------------------|---------------------------|--------------------------|-------------|
| 1 | Start connector 16/17 | 6431301505 | 6431302005 | 6431303005 | |
| 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 mil | 6425300600 | 6425300602 | 6425300604 | 100 |
| 7 | Grommet for quick start for PVC | 6431999900 | 6431999900 | 6431999900 | 100 / 1000 |



Lay Flat



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

Flexible PVC Hose

The perfect water delivery solution for open field crops

Easy to handle portable irrigation system

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



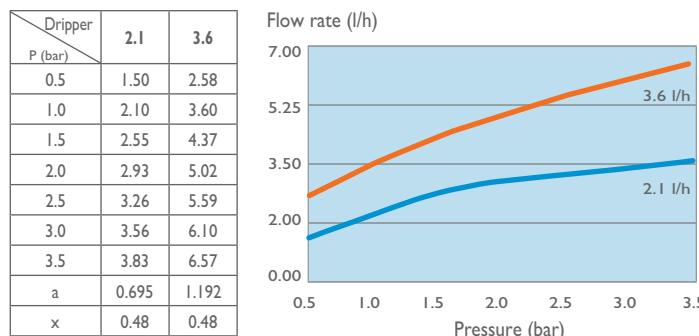
Heavy-duty 16 mm dripline for landscape irrigation

**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

FLOW RATE VS. PRESSURE**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 | 140000 |

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

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



LANDSCAPE - THICK WALLED PC CYLINDRICAL DRIPLINE

Super Jardiline



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



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



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 | Non Palletized | — | 165 | 66000 | — | 350 | 140000 |

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 ($\frac{1}{4}$) 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
- $12 \text{ cc} \times 100 = 1200 \text{ cc} = 1.2 \text{ liters}$
- 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 \times 7.5 = 9 litter
- Max. injector discharge = 200 l/h
- Total solution volume required ($\frac{1}{4}$ 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 organisms: 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 reduces 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:

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

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: $10\text{ppm} \times 30 \text{ m}^3/\text{hr} / 10\% / 10 = 3.0 \text{ liter}$
- 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 manufacturer 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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