

UniTechline™ AS 16 mm



Sub- and **On-**surface dripperline for

- Slopes
- High wind
- Roof gardens
- Curved, narrow and unshaped areas

Anti-Siphon mechanism



Integral dripper



UniTechline™ AS 16 mm

Applications

- Sub-surface and on-surface installation
- Slopes
- High wind areas
- Areas subject to vandalism
- Planting Areas
- Curved, narrow and unshaped planting areas
- Turf, shrubs, trees and flowers
- Rooftop gardens
- Green walls
- Sports turf, tennis courts and golf courses
- High traffic/high liability areas
- Raised planters

Specifications

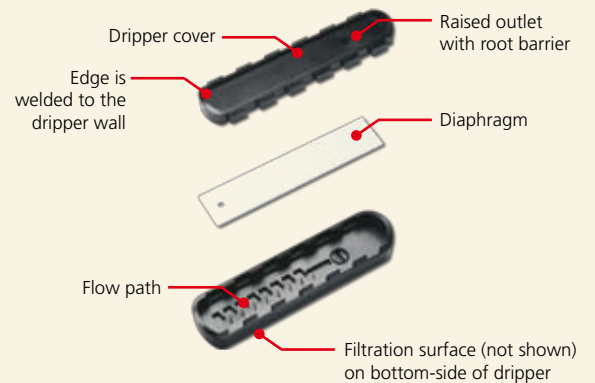
- Broadest choice of dripper flow rates: 1.0, 1.6, 2.3 l/h
- Dripper spacings: 0.3, 0.4, 0.5, 1.00 m
(Other dripper spacing available upon request)
- Pressure-compensating range: 0.5-4.0 bar
- Anti-Siphon mechanism
- Maximum system pressure: 4 bar
- Recommended filtration: 120 mesh
- Dripperline OD (outside diameter) mm: 16.1
- Dripperline ID (inside diameter) mm: 13.7
- Coil length: 25, 50, 100, 400 m

Anti-Siphon mechanism

The anti-siphon mechanism blocks contaminants from being drawn in to the dripper from outside, making it the ideal dripperline for sub-surface installations



Exploded view of UniTechline AS dripper



Water flows through the tubing and enters the dripper through the inlet filter. The filter blocks dirt and debris from entering, ensuring only clean water enters the dripperline.



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Features & Benefits

Anti-Siphon mechanism

- Anti-Siphon mechanism prevents contaminants from being drawn into the dripper

Pressure compensating

- Precise and equal amounts of water are delivered over a broad pressure range
- 100 % uniformity of water and nutrients distribution along the laterals

Continuous self-flushing dripper design

- Flushes debris as it is detected, throughout operation, not just at the beginning or end of a cycle, ensuring uninterrupted dripper operation

Unique dripper design with

- Physical root barrier: better protection against root intrusion without reliance on chemicals
- Largest filter in each dripper
- Widest water passages within the dripper
- Unique TurboNet™ flow path

Dripper position within the dripperline

- The water is drawn in to the dripper from the stream center, preventing the entrance of sediments in to the drippers

Flexible tubing

- Adapts to any planting area shape

UV resistant

- Withstands heat and direct sun - for on-surface installations

Single hole dripper outlet from tubing

- Better protection against root intrusion
- Allows the dripperline to be used in subsurface applications without chemical protection



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Dripperline data

UniTechline™ AS 16012 Performance data • I.D. Ø 13.70 mm • Inlet pressure 3.0 bar

| Flow rate (l/h) | Max. lateral length (m) spacing between drippers (m) | | | |
|-----------------|--|------|------|------|
| | 0.30 | 0.40 | 0.50 | 1.00 |
| 1.0 | 170 | 220 | 267 | 473 |
| 1.6 | 125 | 162 | 196 | 348 |
| 2.3 | 98 | 127 | 155 | 275 |

Calculated on a plain area. Minimum pressure considered: 0.5 bar. For more information, please contact Netafim technical support.

UniTechline™ AS 16012 Flow liter/hour per 100 m

| Dripper spacing | Dripper flow rate | | |
|-----------------|-------------------|---------|---------|
| | 1.0 l/h | 1.6 l/h | 2.3 l/h |
| 0.30 m | 333.3 | 533.3 | 766.6 |
| 0.40 m | 250.0 | 400.0 | 575.0 |
| 0.50 m | 200.0 | 320.0 | 460.0 |
| 1.00 m | 100.0 | 160.0 | 230.0 |

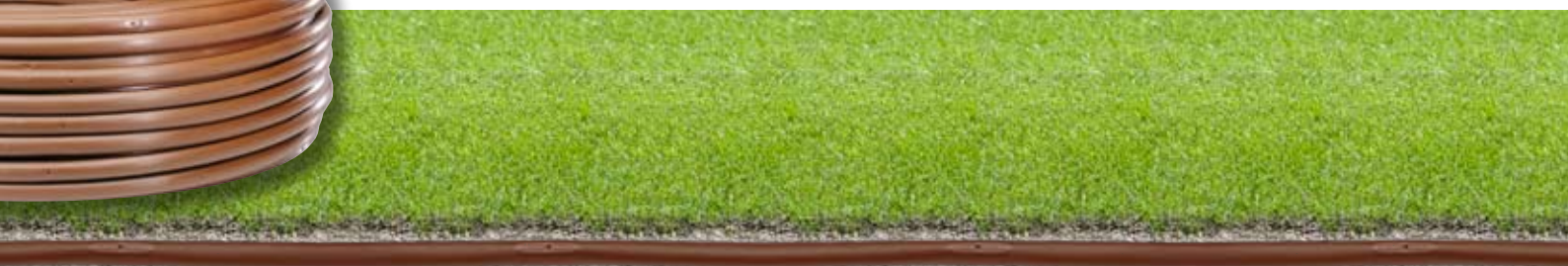
UniTechline™ AS 16012 Drippers technical data

| Flow rate l/h | Working pressure range (bar) | Water passage dimensions (mm) | | | Filtration area (mm ²) | Constant K | Exponent* X |
|---------------|------------------------------|-------------------------------|-------|--------|------------------------------------|------------|-------------|
| | | Depth | width | Length | | | |
| 1.0 | 0.5 – 4.0 | 0.83 | 0.74 | 40 | 130 | 1.0 | 0 |
| 1.6 | 0.5 – 4.0 | 1.26 | 0.70 | 40 | 130 | 1.6 | 0 |
| 2.3 | 0.5 – 4.0 | 1.26 | 1.00 | 40 | 130 | 2.3 | 0 |

*Within working pressure range.

UniTechline™ AS 16012 Dripperline technical data

| Model | Inside Ø (mm) | Wall thickness (mm) | Outside Ø (mm) | Max. working pressure (bar) | KD |
|-------|---------------|---------------------|----------------|-----------------------------|------|
| 16012 | 13.70 | 1.2 | 16.10 | 4.0 | 1.60 |



UniTechline™ AS 16 mm

Dripperline order/package

UniTechline™ AS 16012 Ordering guide • Catalog number 14710 - (any of below 6 digits)

| | Distance between drippers (m) | | | | | | | | | | | | | | | |
|-----------------|-------------------------------|--------|--------|--------|-----------------|--------|--------|--------|-----------------|--------|--------|--------|-----------------|--------|--------|--------|
| | 0.30 | 0.30 | 0.30 | 0.30 | 0.40 | 0.40 | 0.40 | 0.40 | 0.50 | 0.50 | 0.50 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 |
| Flow rate (l/h) | Coil length (m) | | | | Coil length (m) | | | | Coil length (m) | | | | Coil length (m) | | | |
| | 25 | 50 | 100 | 400 | 25 | 50 | 100 | 400 | 25 | 50 | 100 | 400 | 25 | 50 | 100 | 400 |
| 1.0 | | | | | | | | | | | | | | | | |
| 1.6 | | 003000 | 003100 | 003200 | | 003600 | 003700 | 003800 | | 003900 | 004000 | 004100 | | 005300 | 005400 | 005500 |
| 2.3 | | 006000 | 006100 | 006200 | | 006600 | 006700 | 006800 | 006890 | 006900 | 007000 | 007100 | | 008300 | 008400 | 008500 |

* Additional catalog numbers can be opened as required in each of the empty cells in the table.

UniTechline™ AS 16012 Dripperline packaging data

| Wall thickness (mm) | Coil length (m) | Distance between drippers (mm) | Coil weight (kg) | Coils in 40 feet container (units) | Total length in 40 feet container (m) | Coils in 20 feet container (units) | Total length in 20 feet container (m) |
|---------------------|-----------------|--------------------------------|------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|
| 1.2 | 400 | 0.2-1.0 | 22.5 | 352 | 140.800 | 176 | 70.400 |
| 1.2 | 100 | 0.2-1.0 | 5.6 | 900 | 90.000 | 450 | 45.000 |
| 1.2 | 50 | 0.2-1.0 | 2.8 | 1440 | 72.000 | 720 | 36.000 |
| 1.2 | 25 | 0.2-1.0 | 1.4 | 1920 | 48.000 | 960 | 24.000 |









16 mm Dripperline Fittings



Features & Advantages

- Barbed fittings ensure secure fit without glue or bands
- Maximum recommended usage pressure: 4 bar
- UV-resistant
- Easy to use

Applications


- Fits UniTechline AS 16 mm
- 16 mm fittings – black color


| Description | | Catalog nr. |
|-------------------------------------|---|--------------|
| Coupling barb 16 x 16 |  | |
| | 1 unit | 32500-010700 |
| | 50 units | 32500-010720 |
| | 100 units | 32500-010730 |
| Elbow barb 16 x 16 |  | |
| | 1 unit | 32500-012500 |
| | 50 units | 32500-012520 |
| | 100 units | 32500-012530 |
| "T" barb 16 x 16 x 16 |  | |
| | 1 unit | 32500-011300 |
| | 50 units | 32500-011320 |
| | 100 units | 32500-011330 |
| "8" line end 16 mm |  | |
| | 1 unit | 32500-013000 |
| | 50 units | 32500-013020 |
| | 100 units | 32500-013030 |
| Straight barb 16 threaded male 1/2" |  | |
| | 1 unit | 32500-010900 |
| | 50 units | 32500-010920 |
| | 100 units | |
| Straight barb 16 threaded male 3/4" |  | |
| | 1 unit | 32500-011000 |
| | 50 units | 32500-011020 |
| | 100 units | 32500-011030 |


| Description | | Catalog nr. |
|---------------------------------------|---|--------------|
| Elbow barb 16 threaded male 1/2" |  | |
| | 1 unit | 32500-012700 |
| | 50 units | 32500-012720 |
| | 100 units | 32500-012730 |
| Elbow barb 16 threaded male 3/4" |  | |
| | 1 unit | 32500-012800 |
| | 50 units | 32500-012820 |
| | 100 units | 32500-012830 |
| "Y" barb 16 x 2 threaded male 3/4" |  | |
| | 1 unit | 32500-011200 |
| | 50 units | 32500-011220 |
| | 100 units | 32500-011230 |
| "T" barb 16 x 2 threaded male 3/4" |  | |
| | 1 unit | 32500-011800 |
| | 50 units | 32500-011820 |
| | 100 units | |
| "T" barb 16 x 2 threaded female 3/4" |  | |
| | 1 unit | 32500-011700 |
| | 50 units | 32500-011720 |
| | 100 units | |
| Barb 16 mm threaded loose female 3/4" |  | |
| | 1 unit | 32500-011100 |
| | 50 units | |
| | 100 units | |





16 mm Dripperline Fittings


| Description | Catalog nr. |
|--|--------------|
| Start connector for PE, barb 16 | |
|  1 unit | 32500-013750 |
| 50 units | 32500-013760 |
| 100 units | 32500-013765 |


| | |
|--|--------------|
| Start for PVC barb 16 w/seal, model P | |
|  1 unit | 32500-013770 |
| 50 units | 32500-013785 |
| 100 units | |


| | |
|--|--------------|
| Seal for start barb, model P | |
|  1 unit | 32500-010450 |
| 50 units | 32500-010455 |
| 100 units | 32500-010460 |


| | |
|---|--------------|
| Metal stabilizer, 4 mm (height 14 cm) | |
|  1 unit | 32000-001600 |
| 50 units | |
| 100 units | |

| | |
|--|--------------|
| Stabilizer for 16 mm pipe | |
|  1 unit | 32000-006500 |
| 50 units | 32000-006510 |
| 100 units | 32000-006520 |

| Description | Catalog nr. |
|--|--------------|
| DNL - Dripperline Non Leakage valve, male threaded 1/2", 6 m (0.6 bar) pressure shut-off | |
|  1 unit | 32000-003570 |
| 50 units | |
| 100 units | |

| | |
|--|--------------|
| 1/2" female threaded adapter for barb 16 | |
|  1 unit | 32500-013380 |
| 50 units | |
| 100 units | |

| | |
|--|--------------|
| 8 mm hole-puncher for start connectors | |
|  1 unit | 45000-001400 |

| | |
|---|--------------|
| 8 mm thread in punch for start connectors | |
|  1 unit | 45000-003150 |

01-0808-LND-PS-0014-EN