



**PATHFINDER
XPRO**



ULTRA

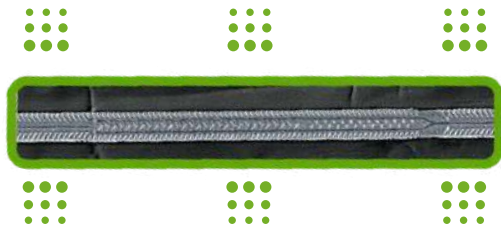
DRIP



Filtration

Maximum water filtration continuously through its 160 entry points.

Design of a continuous labyrinth that provides great resistance to clogging, so there is a more rational use of water. The special design of the tape with a constant labyrinth results in a higher performance and uniformity of the emitters.



Use and selection

In these times where the conservation of water and resources are a key element, drip irrigation has great value. Installation is cheaper than traditional systems and uses much less water.

Product range:

- light wall:** Suitable for short crops and sandy soils without rocks.
- middle wall:** They are generally for medium conditions and long-harvest crops.
- Thick wall:**They are designed for rocky soils and where insects can damage them. They are suitable for more than one campaign.

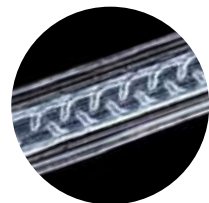
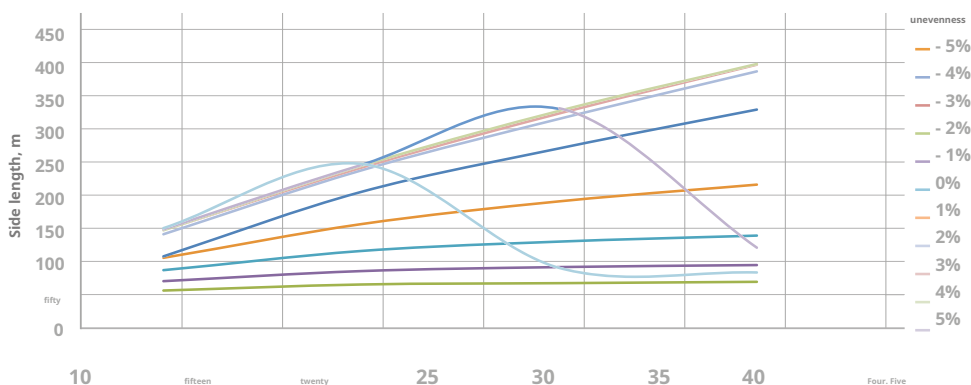
PATHFINDER XPRO TAPE APPLICATION LENGTH (in meters)

Depending on the uniformity of the terrain with a constant pressure of 0.7bar and for DN16 pipes.

| flow rate Transmitter | Uniformity | 10cm | 15cm | 20cm | 30cm | 40cm |
|--------------------------|------------|------|------|------|------|------|
| 0.6L/h | 90% | 119m | 153m | 179m | 228m | 272m |
| | 85% | 145m | 187m | 221m | 285m | 340m |
| 1.0 L/h | 90% | 85m | 107m | 128m | 162m | 192m |
| | 85% | 106m | 136m | 157m | 200m | 238m |
| 1.5L/h | 90% | 30m | 39m | 43m | 55m | 68m |
| | 85% | 64m | 81m | 98m | 128m | 153m |

Length of the irrigation line according to the distance between emitters

Terrain inclination +/- 5%, uniformity 85%, pressure 0.7bar, ID 16mm.



PATHFINDER XPRO

- Manufactured without welds for greater resistance.
 - Emitters with great flow uniformity. Double water filtration through its 160 correctly positioned points.
 - Micro opening that eliminates clogging and prevents roots from entering.
 - The design of the labyrinth that causes a great state of the art turbulence.
 - Available in a wide range of thicknesses, distance between emitters and flows.
 - Double color line for better recognition and signaling of the emitters.
 - Great resistance to tension and cracking.
 - Abrasion resistant material, reduces damage caused by the ground.
 - Thanks to its versatility and accuracy, it is easy to install, reducing work times.
- Manufacturing and quality controls are in accordance with DIN EN ISO 9261:2011.
 - Manufactured by the extrusion process, providing superior resistance, making this product even more durable, being resistant to mechanical abrasion, for example.

Advantages

Characteristics

- +Flat asymmetric non-compensable dripper.
- +Economically viable by optimizing the design.
- +Higher flow characteristics.
- +Excellent cost-performance ratio.
- +Excellent clogging resistance, greater than that of other large drippers.

Specifications

- +Wall Thickness: 5 - 15mil (0.15-0.35mm).
- +Tube diameter Ø12 to Ø27mm.
- +Flow rates: 0.6 l/h, 0.68 l/h, 1.0 l/h, 1.3 l/h, 1.6 l/h
- +Cv <2%.
- +Working pressure: 0.4-2.5 Bar.
- +Recommended filtration: 130/120 micron/mesh.

The best resistance to clogging

·Clogging performance is achieved due to:

- +Unique protective filter
- Large filtration area.
- Narrow entrance.



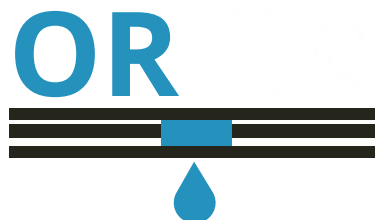
+modern maze design

- High turbulence of water at lower pressure.
- Wide water channels.
- Very low flow exponent 0.46.



+Double filtering system

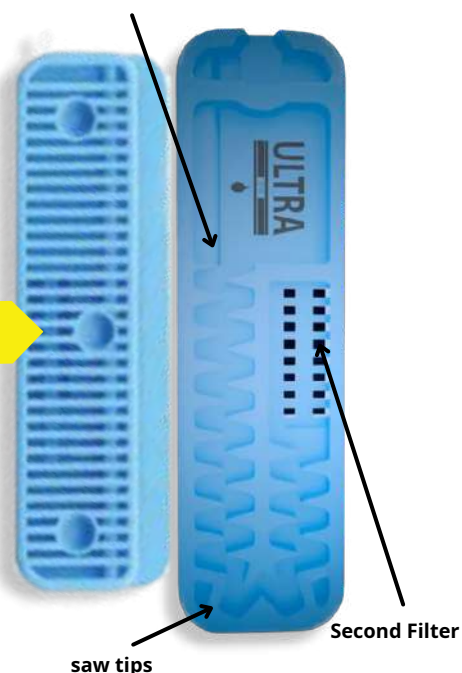
The unique design of the filter and its great filtration capacity due to the millimeter space of the water inlet of **0.3 millimeters** it leaves out the large and medium-sized particles of city dirt, only allowing the smallest to enter the circuit.



* Millimeter water passage

millimeter filter of 0.3

first filter



Technical characteristics

| Flow [L/h] | water passage [mm] | Area of filtration [mm2] | constant K | exponent X | Filtration recommended Micron/Mesh | |
|---------------------|----------------------------|--------------------------------|------------|------------|--|------|
| | Broad- Depth- Length | | | | | |
| 0.6 | 0.4*0.48*18 | 8 | 0.208 | 0.46 | 130/120 | |
| 0.68 | 0.4*0.48 *18 | 8 | 0.236 | 0.46 | 130/120 | |
| 1 | 0.5*0.60*18 | 8 | 0.347 | 0.46 | 130/120 | |
| 1.3 | 0.5*0.65*18 | 8 | 0.451 | 0.46 | 130/120 | |
| Flow vs Pressure | | | | | | |
| Pressure | [m] | 4 | 5 | 7.5 | 10 | 12.5 |
| | [8PSI] | 5.8 | 7.3 | 10.9 | 14.5 | 18.1 |
| Flow [L/h]/[gph] | 0.60 | 0.39 | 0.44 | 0.53 | 0.60 | 0.66 |
| | | 0.10 | 0.12 | 0.14 | 0.16 | 0.18 |
| | 0.68 | 0.45 | 0.49 | 0.60 | 0.68 | 0.75 |
| | | 0.12 | 0.13 | 0.16 | 0.18 | 0.20 |
| | 1.00 | 0.66 | 0.73 | 0.88 | 1.00 | 1.11 |
| | | 0.17 | 0.19 | 0.23 | 0.26 | 0.29 |
| | 1.30 | 0.85 | 0.95 | 1.14 | 1.30 | 1.44 |
| | | 0.23 | 0.25 | 0.30 | 0.34 | 0.38 |

Applications



* OLIVE TREES, COTTON, BLUEBERRIES, ONIONS, HEMP, STRAWBERRIES, COUNTRY HOUSE OPEN, GREENHOUSE, CORN, APPLES AND PEARS, POTATOES, TOMATO, CHERRY, PEPPER, BROCCOLI and ALMOND



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