THE MOST ADVANCED PRESSURE COMPENSATING DRIPLINE DEVELOPED TO HANDLE THE POOREST WATER QUALITY AND THE STEEPEST TERRAIN WHILE PRODUCING THE HIGHEST UNIFORMITY
UniRam is the most advanced technology available today since its dripper design maximizes uniformity, making it the ultimate solution for subsurface applications.

**APPLICATIONS**
- For surface or sub-surface applications
- Ideal for high frequency irrigation in undulating terrain
- For poor water quality conditions

**WARRANTY**
Netafim offers the industry's longest warranty
- 7 Years: Defects in materials and workmanship
- 10 Years: Environmental stress cracking (surface or subsurface applications)

**SPECIFICATIONS**
Inside diameter:
- .540" (16mm, 45 mil)
- .570" (17mm, 45 mil)
- .620" (18mm, 45 mil)
- .690" (20mm, 48 mil)
- .820" (60 mil)

Nominal flow rates (GPH):
- 0.26, 0.33, 0.42, 0.53, 0.61, 0.92, 1.00

Common spacings:
- 18", 24", 30", 36", 42", 48", 60"
  (Custom spacings also available)

Regulating pressure: 7 to 58 psi
Recommended filtration: 80 mesh
(120 mesh for 0.26 and 0.32 GPH)

**PACKAGING DATA**

<table>
<thead>
<tr>
<th>TUBING I.D.</th>
<th>MIL</th>
<th>COIL</th>
<th>LENGTH</th>
<th>WEIGHT</th>
<th>Kd</th>
</tr>
</thead>
<tbody>
<tr>
<td>.540&quot;</td>
<td>45</td>
<td>1,000'</td>
<td>35 LBS.</td>
<td>1.60</td>
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<tr>
<td>.570&quot;</td>
<td>45</td>
<td>1,000'</td>
<td>35 LBS.</td>
<td>1.20</td>
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<tr>
<td>.620&quot;</td>
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<td>1,000'</td>
<td>40 LBS.</td>
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<tr>
<td>.690&quot;</td>
<td>48</td>
<td>1,000'</td>
<td>49 LBS.</td>
<td>0.40</td>
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</tr>
<tr>
<td>.820&quot;</td>
<td>60</td>
<td>1,000'</td>
<td>69 LBS.</td>
<td>0.30</td>
<td></td>
</tr>
</tbody>
</table>

20 coils per pallet.

**DIkker FLOW PATH DIMENSIONS**

<table>
<thead>
<tr>
<th>DRIPPER</th>
<th>LENGTH</th>
<th>DEPTH</th>
<th>WIDTH</th>
<th>FILTRATION AREA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.26</td>
<td>1.575&quot;</td>
<td>0.029&quot;</td>
<td>0.033&quot;</td>
<td>0.2015 SQ. IN.</td>
</tr>
<tr>
<td>0.33</td>
<td>1.575&quot;</td>
<td>0.029&quot;</td>
<td>0.033&quot;</td>
<td>0.2015 SQ. IN.</td>
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<tr>
<td>0.42</td>
<td>1.575&quot;</td>
<td>0.031&quot;</td>
<td>0.042&quot;</td>
<td>0.2015 SQ. IN.</td>
</tr>
<tr>
<td>0.53</td>
<td>1.575&quot;</td>
<td>0.031&quot;</td>
<td>0.042&quot;</td>
<td>0.2015 SQ. IN.</td>
</tr>
<tr>
<td>0.61</td>
<td>1.575&quot;</td>
<td>0.037&quot;</td>
<td>0.050&quot;</td>
<td>0.2015 SQ. IN.</td>
</tr>
<tr>
<td>0.92</td>
<td>1.575&quot;</td>
<td>0.043&quot;</td>
<td>0.083&quot;</td>
<td>0.2325 SQ. IN.</td>
</tr>
<tr>
<td>1.00</td>
<td>1.575&quot;</td>
<td>0.043&quot;</td>
<td>0.063&quot;</td>
<td>0.2325 SQ. IN.</td>
</tr>
</tbody>
</table>
PRODUCT ADVANTAGES

ANTI-SIPHON MECHANISM
Anti-vacuum mechanism prevents suction of dirt into the dripline, providing the critical protection needed against dripper plugging.

WIDE COMPENSATING RANGE
Wide compensating range maintains a constant uniform flow - longer runs and steep terrains are irrigated with high uniformity.

EXCLUSIVE NON-LEAKAGE (CNL) MECHANISM - OPTIONAL
Prevents system drainage when pressure is turned off at the end of each irrigation cycle. Ensures uniform water distribution during pulse irrigation.

WIDEST FLOW PATH - ULTIMATE CLOG RESISTANCE
Operates in extremely poor water quality conditions - designed with two wide flow path allowing larger particles to pass through, preventing plugging.
  • Self-flushing mechanism continuously flushes dripper during operation.

ROOT INTRUSION BARRIER
Prevents roots from penetrating the dripper’s mechanism. Ideal for sub-surface irrigation.

LARGE FILTRATION AREA
Entire base of the UniRam dripper is made of filter inlets - flushing large particles from the dripper, eliminating clogging and maintaining an essential supply of water for uninterrupted operation.

DIAPHRAGM
Made of chemical-resistant silicon.

Commonly used turbulent drippers have overlapping tooth patterns, easily catching debris.

TURBONET TECHNOLOGY
Improves dripper performance by widening the tooth pattern, maximizing flow path velocity, allowing contaminants to pass easily through the dripper, virtually eliminating plugging.

VINELINE VINEYARD SOLUTIONS
Pre-installed Adjustable Dripline Ring
  • Easily adjustable - moves from one end of the dripline to the other preventing water migration
  • Economical - saves labor costs
  • Available for: .540”, .570”, .620” and .690” sizes
**EQUATION TO CALCULATE**

**LATERAL LENGTH INLET PRESSURE**

\[
\text{Line End Pressure}^* \quad (10 \text{ psi}) + \text{Pressure Loss (derived from charts)} = \text{Inlet Pressure}
\]

* Minimum pressure on lateral length end = 10 psi

**Example:**

UniRam .540”

- 400’ Run
- 0.42 GPH Flow Rate
- 18” Spacing

\[
10 \text{ psi (end pressure)} + 11 \text{ psi (from graph)} = 21 \text{ psi}
\]
UNIRAM .570” (17MM, 45 MIL) HEADLOSS AND LATERAL LENGTH

EQUATION TO CALCULATE
LATERAL LENGTH INLET PRESSURE

\[
\text{Line End Pressure}^* \ (10 \text{ psi}) + \text{Pressure Loss (derived from charts)} = \text{Inlet Pressure}
\]

* Minimum pressure on lateral length end = 10 psi

Example:
UniRam .570”
450’ Run
0.42 GPH Flow Rate
18” Spacing

10 psi (end pressure) + 11 psi (from graph) = 21 psi
UNIRAM .620” (18MM, 45 MIL) HEADLOSS AND LATERAL LENGTH

**EQUATION TO CALCULATE LATERAL LENGTH INLET PRESSURE**

\[
\text{Line End Pressure}^* (10 \text{ psi}) + \text{Pressure Loss (derived from charts)} = \text{Inlet Pressure}
\]

* Minimum pressure on lateral length end = 10 psi

**Example:**

UniRam .620”
575' Run
0.42 GPH Flow Rate
18” Spacing

\[
10 \text{ psi (end pressure)} + 11 \text{ psi (from graph)} = 21 \text{ psi (From graph)}
\]
UNIRAM .690” (20MM, 48 MIL) HEADLOSS AND LATERAL LENGTH

EQUATION TO CALCULATE LATERAL LENGTH INLET PRESSURE

\[
\text{Line End Pressure}^* (10 \text{ psi}) + \text{Pressure Loss} \text{ (derived from charts)} = \text{Inlet Pressure}
\]

* Minimum pressure on lateral length end = 10 psi

Example:

UniRam .690” 750’ Run

0.42 GPH Flow Rate = 10 psi (end pressure)
18” Spacing

11 psi (from graph) = 21 psi
Example:
UniRam .820”
980’ Run
0.42 GPH Flow Rate
18” Spacing

10 psi (end pressure) + 11 psi (from graph) = 21 psi