Why Drip Irrigation?

Using Drip Irrigation in your garden is EASY!

In three easy steps, this guide will help you understand drip watering and show you how to install your drip irrigation system.

1. Work out what you’re watering and any special needs you have, for example burying under mulch or new planting.

2. Decide what product best suits your needs.

3. Install your Pope water efficient drip watering system.

Advantages of Drip Irrigation

- Up to 70% savings in water usage due to more efficient delivery and less run-off.
- Healthier, more bountiful plants as a result of less over-watering or under-watering.
- Easy automated watering by adding a timer or connecting to an underground irrigation system. Eliminates the chores of hand watering.
- Reduced weed growth by limiting moisture to desirable plants only.
- Versatility on flat terrain or sloping landscapes without wasteful run-off or erosion.
- Easy system expansion to accommodate new planting areas or to retrofit an existing sprinkler system.

Did you know?

Drip irrigation is a method of applying moisture directly to the desired plants and their root system. Water is distributed slowly and accurately, reducing water loss from wind or evaporation and minimising moisture wasted on weeds, unplanted areas or runoff.

For more information visit www.popeproducts.com.au
Why Drip Irrigation?

Watering using a Drip System makes sense!

There are a wide range of drip watering products available to help you water your plants efficiently. These include:

<table>
<thead>
<tr>
<th>Individual Drippers</th>
<th>Inline Drippers (Such as Drip Eze.)</th>
<th>Tricklers</th>
<th>Weeping Hose</th>
</tr>
</thead>
</table>

- Each has their own unique features and uses.
- But no matter what you use, all drip watering systems work by releasing water slowly at targeted areas of the garden.
- Drip watering helps avoid water wastage that can happen through:

The following pages will help you select the product that will be best for you and your gardens’ needs.
**DRIP IRRIGATION FOR YOUR GARDEN**

**Watering, Trees, Bushes, Shrubs and Hedges**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Drip Eze</strong></td>
<td>Has built-in drippers already situated in the tube for an easy to use roll out system. Each dripper emits 2 litres of water per hour and each dripper is spaced 30cm apart. Can be covered with mulch.</td>
</tr>
<tr>
<td><strong>Easy Clean Drippbers</strong></td>
<td>Can be placed directly into 13mm poly pipe or used with 4mm poly pipe to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 2, 4 and 8 litre per hour drippers. Can be easily taken apart for cleaning. Use when plants have similar watering needs.</td>
</tr>
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<td><strong>Ultra Drippers</strong></td>
<td>Can be placed directly into 13mm poly pipe, 13mm Drip Eze or used with 4mm poly pipe to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 2, 4 and 8 litre per hour drippers. Can be easily taken apart for cleaning. Suits slopes and can be covered with mulch. Use when plants have similar watering needs.</td>
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<td><strong>Micro Drippers</strong></td>
<td>Can be placed directly into 13mm or 4mm poly pipe to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 4 litre per hour. Use when plants have similar watering needs.</td>
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<td><strong>Water Weeper</strong></td>
<td>Connects directly into a garden hose or poly pipe. Emits water through tiny pores in the hose. Application rate varies depending on water pressure. Can be covered with mulch. 4mm is most suited to looping around trees, bushes, shrubs and hedges.</td>
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For more information visit [www.popeproducts.com.au](http://www.popeproducts.com.au)
### Micro Drippers
- Can be placed directly into 13mm or 4mm poly pipe to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 4 litre per hour. Use when plants have similar watering needs.

### Water Weeper
- Connects directly into a garden hose or poly pipe. Emits water through tiny pores in the hose. Application rate varies depending on water pressure. Can be covered with mulch. Available in 4mm or 12mm diameter.

### Tricklers
- Offer variable water flow and wider area coverage than drippers. Can be placed directly into 13mm poly pipe or used with 4mm poly pipe. Ideal for use with plants that have different watering needs.

### Variable Flow Drippers
- Offer variable water flow and a smaller coverage area than tricklers. Can be placed directly into 13mm poly pipe, or used with 4mm poly pipe. Ideal for use with plants that have different watering needs.

### Drip Eze
- Has built in drippers already situated in the tube for an easy to use roll out system. Each dripper emits 2 litres of water per hour and each dripper is spaced 30cm apart. Connects just like regular poly pipe. Use 13mm Drip Eze or 4mm Drip Eze - both can be used with existing 13mm poly pipe and can snake through the garden. Drip Eze can be covered with mulch.

### Easy Clean Drippers
- Can be placed directly into 13mm or 4mm poly pipe to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 2, 4 and 8 litre per hour drippers. Can be easily taken apart for cleaning. Use when plants have similar watering needs.

### Ultra Drippers
- Can be placed directly into 13mm poly pipe, 13mm Drip Eze or used with 4mm poly pipe to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 2, 4 and 8 litre per hour drippers. Can be easily taken apart for cleaning. Suits slopes and can be covered with mulch. Use when plants have similar watering needs.

### Tricklers On Spike
- Offer variable water flow and wider coverage area. Use with 4mm poly pipe when the flow of water needs to be elevated.

### Look for these symbols:
- Beds and Borders
- Slopes
- Can be Covered with Mulch

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For more information visit www.popeproducts.com.au
Watering Pots and Baskets

Easy Clean Drippers - Can be placed directly into 13mm or 4mm poly pipe to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 2, 4 and 8 litre per hour drippers. Can be easily taken apart for cleaning. Use when plants have similar watering needs.

Ultra Drippers - Can be placed directly into 13mm poly pipe, 13mm Drip Eze or used with 4mm poly pipe to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 2, 4 and 8 litre per hour drippers. Can be easily taken apart for cleaning. Suits slopes and can be covered with mulch. Use when plants have similar watering needs.

Micro Drippers - Can be placed directly into 13mm or 4mm poly pipe to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 4 litre per hour. Use when plants have similar watering needs.

Tricklers - Offer variable water flow and wider area coverage than drippers. Can be placed directly into 13mm poly pipe or used with 4mm poly pipe. Ideal for use with plants that have different watering needs.

Variable Flow Drippers - Offer variable water flow and a smaller coverage area than tricklers. Can be placed directly into 13mm poly pipe or used with 4mm poly pipe. Ideal for use with plants that have different watering needs.

Tricklers On Spike - Offer variable water flow and wider coverage area. Use with 4mm poly pipe when the flow of water needs to be elevated.

Look for these symbols:

- Pots and Baskets
- Can be Covered with Mulch

For more information visit www.popeproducts.com.au
## Watering Vegetable or Herb Gardens

### Look for these symbols:
- Vegetable and Herb Gardens
- Can be Covered with Mulch

### Drip Eze - Has built-in drippers for an easy-to-use roll-out system. Each dripper emits 2 litres of water per hour and is spaced 30cm apart. Connects just like regular poly pipe. 4mm Drip Eze can be used with existing 13mm poly pipe to snake through the garden. Can be covered with mulch.

### Easy Clean Drippers - Can be placed directly into 13mm or 4mm poly pipe to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 2, 4 and 8 litre per hour drippers. Can be easily taken apart for cleaning. Use when plants have similar watering needs.

### Ultra Drippers - Can be placed directly into 13mm poly pipe, 13mm Drip Eze or used with 4mm poly pipe to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 2, 4 and 8 litre per hour drippers. Can be easily taken apart for cleaning. Suits slopes and can be covered with mulch. Use when plants have similar watering needs.

### Micro Drippers - Can be placed directly into 13mm or 4mm poly pipe, to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 4 litre per hour. Use when plants have similar watering needs.

### Variable Flow Drippers - Offer variable water flow and a smaller coverage area than tricklers. Can be placed directly into 13mm poly pipe or used with 4mm poly pipe. Ideal for use with plants that have different watering needs.

### Tricklers - Offer variable water flow and wider area coverage than drippers. Can be placed directly into 13mm poly pipe or used with 4mm poly pipe. Ideal for use with plants that have different watering needs.

### Tricklers On Spike - Offer variable water flow and wider area coverage than drippers. Can be placed directly into 13mm poly pipe or used with 4mm poly pipe. Ideal for use with plants that have different watering needs.

For more information visit [www.popeproducts.com.au](http://www.popeproducts.com.au)
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Ultra Drippers - Can be placed directly into 13mm poly pipe, 13mm Drip Eze or used with 4mm poly pipe to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 2, 4 and 8 litre per hour drippers. Can be easily taken apart for cleaning. Suits slopes and can be covered with mulch. Use when plants have similar watering needs.

Water Weeper - Connects directly into a garden hose or poly pipe. Emits water through tiny pores in the hose. Application rate varies depending on water pressure. Can be covered with mulch. Available in 4mm or 12mm diameter.

Drip Eze for slopes - Specially designed for even water distribution on slopes. Each dripper emits 2 litres of water per hour and is spaced 30cm apart. Connects just like regular poly pipe. Can be covered with mulch.

Ultra Drippers - Can be placed directly into 13mm poly pipe, 13mm Drip Eze or used with 4mm poly pipe to get right to the base of the plant. Ideal where plants are spaced randomly. Available in 2, 4 and 8 litre per hour drippers. Can be easily taken apart for cleaning. Suits slopes and can be covered with mulch. Use when plants have similar watering needs.

Look for these symbols:

- Slopes
- Can be Covered with Mulch

For more information visit www.popeproducts.com.au
**Selecting the right drip solution**

### Drip Eze - 4mm and 13mm

**Suitable for:**
- All soil types including sandy, loamy and clay soils.
- Areas up to 50m long.
- Can be covered with mulch.
- Low water pressure.

**Not suitable for:**
- Non mains water tank connections / non-potable water.
- Pots or hanging baskets.
- Slopes.

**Advantages**
- Easy to install.
- Suits most drip watering applications.
- Low water emission rate.

<table>
<thead>
<tr>
<th>Water Emission Rate</th>
<th>2 LITRES PER HOUR PER Dripper</th>
</tr>
</thead>
</table>

**Drip Eze - 4mm**
- Distance between emitters
- 30cm

Drip Eze - 4mm works with poly pipe or 13mm Drip Eze and is most suitable for being looped around trees and shrubs to run from existing poly tube, or if replacing spray jets.

**Drip Eze - 13mm**
- Distance between emitters
- 30cm

Drip Eze - 13mm can be connected to a tap or used with poly tube and is most suitable for garden beds, hedges, nature strips and vegetable gardens.

View the Drip Eze video at www.popeproducts.com.au
Selecting the right drip solution

Water Weeper - Water seeps through tiny pores

Water Emission Rate

VARIABLE FLOW

Suitable for:
- Connecting to a garden hose.
- All soil types including sandy, loamy and clay soils.
- Garden beds, hedges and nature strips.
- Can be covered with mulch.
- Low water pressure.

Not suitable for:
- Non mains water tank connections / non-potable water.
- Pots or hanging baskets.
- Vegetable or herb gardens.
- Slopes.

Advantages
- Simple to install.
- Easy to use.
- Ideal for densely planted areas.

Water Weeper - 4mm
Water Weeper - 4mm connects to 13mm poly pipe. Emits water through tiny pores in the hose. Application rate varies depending on water pressure. Ideal for looping around trees and shrubs.

Water Weeper - 12mm
Water Weeper -12mm connects directly into a garden hose or poly pipe. Emits water through tiny pores in the hose. Application rate varies depending on water pressure. Can be gently snaked through garden beds and borders.

View the Drip Eze video at www.popeproducts.com.au
The packaging for Pope Drip Solutions has been coded to suit the needs of your garden. Look for the colour coded packaging which corresponds to your requirements when shopping for products at your local retailer. To save time use the handy parts guide below to make a list of what you need.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Quantity</th>
<th>Product Description</th>
<th>Product Code</th>
<th>Quantity</th>
<th>Product Description</th>
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<tbody>
<tr>
<td>1010264</td>
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<td>13mm Drip Eze - 15m</td>
<td>1010276</td>
<td></td>
<td>13mm Drip Eze - 40m</td>
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<td>1010404</td>
<td></td>
<td>Easy Clean Dripper</td>
<td>1010406</td>
<td></td>
<td>Precision (Ultra) Dripper</td>
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<td>1010416</td>
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<td>Precision (Ultra) Dripper</td>
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<tr>
<td>1010546</td>
<td></td>
<td>12mm Water Weeper - 15m</td>
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<td></td>
<td>12mm Water Weeper - 30m</td>
</tr>
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<td></td>
<td>1010088</td>
<td></td>
<td>Pressure Reducer 100kPa</td>
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<tr>
<td>1010277</td>
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<td>4mm Water Weeper - 10m</td>
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<td>Pressure Reducer 300kPa</td>
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<td>Micro Dripper</td>
<td>1010085</td>
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<td>Loc-Sure Clamps - 13mm</td>
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<td>Veri Flow® Dripper</td>
<td>1010083</td>
<td></td>
<td>13mm Locking Clamps</td>
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<tr>
<td>1010402</td>
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<td>Veri Flow® Trickler</td>
<td>1010407</td>
<td></td>
<td>Adjustable Flow Trickle</td>
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<td>1010032</td>
<td></td>
<td>Hole Punch</td>
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<td>1010042</td>
<td></td>
<td>Repair Plugs</td>
<td>1010043</td>
<td></td>
<td>Adjustable Flow Trickle on Spike</td>
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<td>1010044</td>
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<td>1010253</td>
<td></td>
<td>13mm Tap Connection Kit</td>
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<td>1010111B</td>
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<td>13mm Inline Filter</td>
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<td>1010085</td>
<td></td>
<td>Loc-Sure Clamps - 13mm</td>
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<td></td>
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</tr>
</tbody>
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Reference Guide

For more information visit www.popeproducts.com.au
Easy Clean Drippers / Ultra Drippers

**Easy Clean Dripper**

Easy Clean Drippers connect straight into 13mm poly tube or can be used with 4mm poly tube.

- Beds and Borders
- Vegetable and Herb Gardens
- Pots and Baskets

**Ultra Drippers**

Ultra Drippers connect straight into 13mm poly tube or Drip Eze and can be used with 4mm poly tube. They are suitable for sloping garden areas or to be covered in mulch. They also inhibit insects from entering and blocking the dripper.

- Beds and Borders
- Slopes
- Can be Covered with Mulch

**Advantages**

- Can be placed exactly at each plant’s root zone.
- Can be installed onto 4mm tube—reduces the need for poly tube to run past every plant.
- Can be taken apart to be cleaned.
- Low water emission rate.

**Suitable for:**

- Plants spaced randomly apart.
- Targeted and efficient watering at each plant’s root zone.
- Pots or hanging baskets.
- Areas with low water pressure.
- Easy to take apart and clean.

- Non mains water tank connections.
- Non-potable water.

**Ideal flow rate for:**

- **2 LITRES PER HOUR**
  - Most applications.
  - Sandy soils.

- **4 LITRES PER HOUR**
  - Trees, shrubs, bushes and mid to large sized established plants.
  - Loamy or clay soil.

- **8 LITRES PER HOUR**
  - Trees, shrubs, native gardens and any plants requiring infrequent but thorough soaking.
  - Loamy or clay soil.

Note: To take apart simply unscrew the cap and rinse free of debris and grit.
Micro Drippers

Micro Dippers connect straight into 13mm poly tube or can be used with 4mm poly tube.

Suitable for:
- Plants spaced randomly apart.
- Targeted and efficient watering at each plant’s root zone.
- Areas with low water pressure.
- Trees, shrubs, bushes and larger plants.

Not Suitable for:
- Non mains water tank connections.
- Non-potable water.
- Sloping gardens.
- Covering with mulch.

Advantages
- Can be placed exactly at each plant’s root zone.
- Can be installed onto 4mm tube - reduces the need for poly tube to run past every plant.
- Cost effective.

Ideal flow rate for trees, shrubs, bushes and mid to large sized established plants.
- Suits loamy or clay soil.

Beds and Borders
Trees and Shrubs
Pots and Baskets

View the Drip Eze video at www.popeproducts.com.au
## Variable Flow Drippers and Tricklers

### Variable Flow Drippers

**Veri-Flow® Dripper** adjusts from 0 - 60 litres per hour.

- **Low flow rate:**
  - Sandy soils.
  - Potting mix.
  - Plants that require less water.

- **Mid flow rate:**
  - Loamy or clay soils.
  - Established bushes, shrubs and hedges.
  - Vegetables and fruiting plants.

- **High flow rate:**
  - Heavy clay soils.
  - Trees & large plants.
  - Vegetables and fruiting plants.

Connect straight into 4mm or 13mm poly tube.

<table>
<thead>
<tr>
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<th>Trees and Shrubs</th>
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</thead>
<tbody>
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<td>![image]</td>
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<td>![image]</td>
<td>![image]</td>
</tr>
<tr>
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<td>![image]</td>
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</tbody>
</table>

### Variable Flow Tricklers

**Veri-Flow® Trickler**

- Adjustable flow rate 0-30 lph.
- Threaded inlet.
- Use with 4mm rigid poly tube.
- Ideal for pots and hanging baskets.
- Trickler action gives larger area coverage.

**Adjustable Flow Trickler**

- Adjustable flow rate 0-50 lph.
- Barbed inlet.
- Use with 13mm & 4mm poly tube.
- Trickler action gives larger area coverage.
- Ideal for shrubs.

**Inline Trickler on Spike**

- Adjustable flow Trickler 0-100 lph.
- 100mm spike elevates trickler.
- Connect to 13mm poly using 4mm tube.
- Trickler action gives larger area coverage.

Connect straight into 4mm or 13mm poly tube.

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</tr>
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</table>

**Suitable for:**
- Connecting to poly pipe.
- Plants with different watering needs.
- Pots or hanging baskets.
- Garden beds and borders.
- Hedges, shrubs, bushes & trees.
- Low water pressure.

**Not suitable for:**
- Sloping garden areas.
- Covering with mulch.
- Non mains water tank connections / non-potable water.

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**Advantage**

- Allows the flow of water to be adjusted to suit plants with differing water needs.

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**View the Drip Eze video at** www.popeproducts.com.au

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**Note:** To adjust the flow rate, simply turn the cap.
Selecting the right drip solution

The difference between Drippers and Tricklers

<table>
<thead>
<tr>
<th>Drippers</th>
<th>Fixed Discharge - Dripper Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drippers water a concentrated area.</td>
<td>Guaranteed to deliver water in an ecologically responsible and efficient manner when used correctly. Use when watering plants that are the same or require the same amounts of water.</td>
</tr>
</tbody>
</table>

• Easy Clean and Ultra Dripper - 2, 4 and 8 L/hr
• Micro Dripper - 4 L/hr
• Drip-Eze - Built in drippers each emitting 2 L/hr

<table>
<thead>
<tr>
<th>Tricklers</th>
<th>Adjustable Discharge - Drippers and Tricklers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tricklers water a wider area.</td>
<td>Variable Flow Drippers and Tricklers are adjustable to suit the plant being watered. Just unscrew the cap to increase flow.</td>
</tr>
</tbody>
</table>

• Veri-Flow’ Dripper 0-60 L/hr
• Veri-Flow’ Trickler 0-30 L/hr
• Adjustable Flow Trickler 0-50 L/hr
• Trickler on Spike 0-100 L/hr

View the Drip Eze video at www.popeproducts.com.au
Connecting to a garden hose

You will need:
- Tap Ready Garden Hose
- 13mm Barb to Snap-on Hose Connector
- 13mm End Plug
- 13mm Loc-Sure Clamps

1. Roll out Drip Eze and place in area to be watered.
2. Insert the 13mm Barb to Snap-on hose connector at the end to be connected to the hose. Secure with 13mm Loc-Sure clamp.
3. Insert the 13mm end plug at the end of the Drip Eze. Secure with 13mm Loc-Sure clamp.

TIP!
To customise your watering so that selected plants receive water right at the root zone, add 2 lph Ultra drippers to the Drip Eze. These can be placed as desired in the line. See instructions for installing drippers.

Connecting to 13mm poly pipe

You will need:
- 13mm Barbed Joiner
- 13mm End Plug
- 13mm Tees or Elbows
- 300kPa Pressure Reducer
- 13mm Loc-Sure Clamps
- 13mm Filter

1. Roll out Drip Eze and place in area to be watered.
2. For poly pipe systems use a 13mm barbed joiner to connect to 13mm poly pipe or other 13mm Drip Eze. Secure with 13mm Loc-Sure clamps.
3. For other watering patterns such as grid layouts, you can use 13mm tees and 13mm elbows to cover the desired watering area.
4. Insert a 13mm end plug at the end of the Drip Eze (if required) and secure with a 13mm Loc Sure clamp.
5. Ensure a 13mm filter has been fitted to the start of the line and if connected to a tap, use a 300kPa pressure reducer.

For more information visit www.popeproducts.com.au

Note: For new systems being connected to a tap you will need a 13mm inline filter and a pressure reducer connected to your tap.
Installing Drip Eze - 4mm

Replacing existing spray watering systems
OR running lengths of 4mm Drip Eze from the main line.

You will need:
- Repair Plugs
- 4mm Barbed Adaptors
- Hole Punch

1. Remove existing spray products from your 13mm poly tube. If necessary, repair hole in poly tube with repair plugs.

2. Insert the 4mm adaptor into the required length of 4mm Drip Eze. Push into existing hole left by spray system or make a new hole with a hole punch.

3. Plug end of 4mm Drip Eze with a repair plug.

Making loops around trees and bushes

You will need:
- 4mm Barbed Tees
- 4mm Barbed Adaptors
- Hole Punch
- Repair Plugs (in case of error)

1. Cut the required length of 4mm Drip Eze so it can circle the base of the plant and apply water to the root zone.

2. Join together using a 4mm barbed tee.

3. Cut another length of 4mm Drip Eze (or 4mm poly pipe) long enough to connect to the main poly or Drip Eze line.

4. Attach a barbed 4mm adaptor to the tail of the 4mm line.

5. Punch a hole in the main line.

6. Connect the "tail" of the loop into the main line.

For more information visit www.popeproducts.com.au

Note: For new systems being connected to a tap you will need a 13mm inline filter and a Pressure reducer connected to your tap.
Installing Waterweeper

Using 12mm Waterweeper

You will need:
- Tap Ready Garden Hose

1. Roll out the Water Weeper and place in area to be watered.
2. Connect to your garden hose.

TIP!
- Use hold down stakes to keep the Water Weeper in place!
- Cover Water Weeper with mulch for greater water saving.
- For best results always turn the tap on slowly with each use until water slowly drips from the Water Weeper.

Using 4mm Waterweeper

You will need:
- 4mm Barbed Adaptor
- Repair Plugs
- 4mm Barbed Tees
- Hole Punch

1. Cut the length of 4mm Water Weeper required.
2. Insert a barbed adaptor into one end, and a repair plug in the other end.
3. Punch a hole in existing 13mm poly tube.
4. Insert the barbed end of the cut 4mm piece into the poly tube.
5. Lay 4mm Water Weeper in the area to be watered.

TIP!
For looping around trees, cut the Water Weeper so it can circle the base of the plant and apply water to the root zone. Join together using a 4mm barbed tee. Connect to the poly tube using another length of water weeper and a barbed adaptor.

For more information visit www.popeproducts.com.au
Installing Dripper Hose

Connecting to a garden hose

1. Roll out dripper hose and place in area to be watered.
2. Connect to garden hose fitted with snap on connector.

Connecting to 13mm poly pipe

1. Roll out dripper hose and place in area to be watered.
2. Use a snap on connector at the end of the 13mm poly pipe and connect to dripper hose.

You will need:

1. Tap Ready Garden Hose
2. 100kPa Pressure Reducer
3. 13mm Snap Sure Connector
4. 13mm Poly Pipe
5. 13mm Inline Filter
6. 100kPa Pressure Reducer

Note:
For new systems being connected to a tap you will need a 13mm inline filter and a 100kPa Pressure reducer connected to your tap.

For more information visit www.popeproducts.com.au
**Installing Easy Clean Drippers / Ultra Drippers**

**Placing drippers into 13mm poly tube**
OR placing Ultra Drippers into Drip Eze

<table>
<thead>
<tr>
<th>You will need:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hole Punch</td>
<td></td>
</tr>
</tbody>
</table>

1. Ensure that the 13mm poly tube is laid out in the best position in your garden.

2. Using the hole punch, pierce holes into the 13mm tube, getting as close as possible to the plant’s root zone.

3. Push the dripper firmly into the poly tube (or Drip Eze for Ultra Drippers).

4. If you make an error or need to change the position of any drippers use repair plugs to patch the hole.

**TIP!**
2 lph Ultra Drippers can be inserted into 13mm Drip Eze for extra watering or more localised application of water.

**Placing drippers into 4mm poly tube**

<table>
<thead>
<tr>
<th>You will need:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4mm Poly Tube</td>
<td></td>
</tr>
<tr>
<td>4mm Barbed Adaptor</td>
<td></td>
</tr>
<tr>
<td>Hole Punch</td>
<td></td>
</tr>
</tbody>
</table>

1. Cut the required length of 4mm poly tube so it can reach the base of the plant applying water to the root zone.

2. Fit the dripper to the end of the 4mm poly tube.

3. Fit the 4mm adaptor to the other end of the 4mm poly tube.

4. Punch a hole in the main line (the existing 13mm poly tube)

5. Push the 4mm barbed adaptor into the hole in the main 13mm poly line.

**TIP!**
To clean drippers unscrew the cap, rinse the dripper and clean debris and grit. Screw the dripper cap back in place.

For more information visit [www.popeproducts.com.au](http://www.popeproducts.com.au)

Note: For new systems being connected to a tap you will need a 13mm inline filter and a Pressure reducer connected to your tap.
# Installing variable flow drippers and tricklers

## Placing drippers or tricklers into 13mm poly tube

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ensure that the 13mm poly tube is laid out in the best position in your garden.</td>
</tr>
<tr>
<td>2</td>
<td>Using the hole punch, pierce holes into the 13mm tube, getting as close as possible to the plant’s root zone.</td>
</tr>
<tr>
<td>3</td>
<td>Push the trickler or dripper firmly into the poly tube.</td>
</tr>
<tr>
<td>4</td>
<td>If you make an error or need to change the position of any drippers or tricklers use repair plugs to patch the hole.</td>
</tr>
</tbody>
</table>

## Placing drippers or tricklers into 4mm poly tube

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cut the required length of 4mm poly tube so it can reach the base of the plant applying water to the root zone.</td>
</tr>
<tr>
<td>2</td>
<td>Fit the trickler to the end of the 4mm poly tube.</td>
</tr>
<tr>
<td>3</td>
<td>Fit the 4mm adaptor to the other end of the 4mm poly tube.</td>
</tr>
<tr>
<td>4</td>
<td>Punch a hole in the main line (the existing 13mm poly tube).</td>
</tr>
<tr>
<td>5</td>
<td>Push the 4mm barbed adaptor into the hole in the main line.</td>
</tr>
</tbody>
</table>

For more information visit www.popeproducts.com.au

Note: For new systems being connected to a tap you will need a 13mm inline filter and a Pressure reducer connected to your tap.
Installing your drip system

Connecting to the water source - Using a garden hose based system from your tap

This method gives you the versatility of using your Tap Ready™ garden hose to connect to your system. This means you have flexibility to use your garden hose for many things, and you don’t have to worry about burying pipes under paths or driveways.

This style of connection can be used with:
- 12mm Water Weeper
- 13mm Drip Eze
- 13mm Poly Pipe Systems

1. Remove tap nut from tap (if one exists) and attach a pressure reducer to your tap. This will ensure the water pressure is low enough to correctly operate the drip system.

2. Connect a tap nut to the base of your pressure reducer.

3. OR Add a tap timer to the base of the pressure reducer for greater watering efficiency. (Your tap timer should be ready to use without attaching a tap nut.)

4. Snap your garden hose on to the tap timer.

5. Snap the end of your garden hose into your drip system. Water Weeper and Dripper Hose come ready to connect directly to the hose. If you’re using 13mm Drip Eze or 13mm poly pipe, fit the start of the pipe with a 13mm barb to snap on hose connector and secure with a Loc-Sure clamp.

Note: If you’re using 13mm Drip Eze or a 13mm poly pipe based system you should use a filter to minimise particles being deposited through the system and blocking the drippers. An inline filter has two barbed ends so it fits easily on the 13mm poly tube or 13mm Drip Eze. This can be situated anywhere in the line, but it must be before the drippers.

For more information visit www.popeproducts.com.au
Creating a system from your tap - The quick and easy way to install your drip system

1. Fit pressure reducer to the tap. This will ensure the water pressure is low enough to correctly operate the drip system and conserve water.

2. Attach a timer to the base of the pressure reducer for greater watering efficiency.

3. Connect a tap nut with 13mm barbed tail to the base of your pressure reducer or tap timer if using one. You can then connect your 13mm poly pipe or 13mm Drip Eze to the barbed outlet.

4. All systems should use a filter to minimise particles being deposited through the system and blocking the drippers. An inline filter has two barbed ends so it fits easily on to 13mm poly tube or 13mm Drip Eze. This can be situated anywhere in the line, but must be before the drippers. Secure with 13mm Loc-Sure clamps.

5. Attach poly tube or Drip Eze to the inline filter and lay in desired location in garden.

TIP!
Consider using a two way tap to give you more versatility. Use one outlet for your drip system and another for your garden hose!
## Converting spray systems into drip systems

### Using Drippers or Tricklers

1. **Remove existing spray jets.**

   ![Image](image1)

2. **Attach dripper to a length of 4mm poly tube.**

   ![Image](image2)

3. **Push 4mm poly with adaptor into the new or existing hole.**

   ![Image](image3)

   **OR**

   ![Image](image4)

   **Insert a 4mm barbed adaptor into the other end of the 4mm poly pipe.**

   ![Image](image5)

4. **Place dripper in required position.**

   ![Image](image6)

### Using 4mm Drip Eze or 4mm Water Weeper

1. **Remove existing spray jets.**

   ![Image](image7)

2. **Cut required lengths of 4mm Drip Eze or Water Weeper.**

   ![Image](image8)

3. **Using the existing holes left by the spray system, insert the barbed end of the 4mm Drip Eze or Water Weeper into the existing line (or create a new hole in the existing poly line).**

   ![Image](image9)

4. **Add a 4mm barbed adaptor to one end of the 4mm Drip Eze or Water Weeper and place a repair plug at the other end.**

   ![Image](image10)

5. **Place 4mm Drip Eze or Water Weeper in the required position throughout the garden.**

   ![Image](image11)

For more information visit www.popeproducts.com.au
Watering using drippers and tricklers

Using drip systems in your garden

Drip systems use low pressure from your tap. Always remember to use a filter with drip systems and a pressure reducer to ensure low operating pressure.

Use this table as a guide for watering your garden.

<table>
<thead>
<tr>
<th></th>
<th>Drippers</th>
<th>Drippers</th>
<th>Drippers</th>
<th>Micro Dripper</th>
<th>Veri-flow® Dripper</th>
<th>Veri-flow® Trickler</th>
<th>Drip Eze</th>
<th>4mm Water Weeper</th>
<th>12mm Water Weeper</th>
</tr>
</thead>
<tbody>
<tr>
<td>flow rate per emitter</td>
<td>2 lph</td>
<td>4 lph</td>
<td>8 lph</td>
<td>4 lph</td>
<td>0 - 60 lph</td>
<td>0 - 30 lph</td>
<td>2 lph</td>
<td>120 lph per 10m</td>
<td>240 lph per 15m</td>
</tr>
<tr>
<td>seedlings</td>
<td>10 minutes</td>
<td>5 minutes</td>
<td>3 minutes</td>
<td>5 minutes</td>
<td>up to 5 minutes</td>
<td>up to 5 minutes</td>
<td>10 minutes</td>
<td>10 minutes</td>
<td>5 minutes</td>
</tr>
<tr>
<td>small established</td>
<td>30 minutes</td>
<td>15 minutes</td>
<td>10 minutes</td>
<td>15 minutes</td>
<td>up to 15 minutes</td>
<td>up to 15 minutes</td>
<td>30 minutes</td>
<td>30 minutes</td>
<td>15 minutes</td>
</tr>
<tr>
<td>shrubs</td>
<td>45 minutes</td>
<td>25 minutes</td>
<td>15 minutes</td>
<td>25 minutes</td>
<td>up to 25 minutes</td>
<td>up to 25 minutes</td>
<td>45 minutes</td>
<td>45 minutes</td>
<td>25 minutes</td>
</tr>
<tr>
<td>flower beds</td>
<td>30 minutes</td>
<td>15 minutes</td>
<td>10 minutes</td>
<td>15 minutes</td>
<td>up to 15 minutes</td>
<td>up to 15 minutes</td>
<td>30 minutes</td>
<td>30 minutes</td>
<td>15 minutes</td>
</tr>
<tr>
<td>vegetables</td>
<td>30 minutes</td>
<td>15 minutes</td>
<td>10 minutes</td>
<td>15 minutes</td>
<td>up to 15 minutes</td>
<td>up to 15 minutes</td>
<td>30 minutes</td>
<td>30 minutes</td>
<td>15 minutes</td>
</tr>
<tr>
<td>trees</td>
<td>1 hour</td>
<td>30 minutes</td>
<td>15 minutes</td>
<td>30 minutes</td>
<td>up to 30 minutes</td>
<td>up to 30 minutes</td>
<td>1 hour</td>
<td>1 hour</td>
<td>30 minutes</td>
</tr>
</tbody>
</table>

Note: Watering times highlighted above are based on operating pressure of 150kPa. Use as a guide only.

Watering times will vary based on your soil type and weather conditions.

Water sandy soil more frequently and water clay soil less frequently (refer to the diagram on page 28 to check what type of soil you have).

For more information visit www.popeproducts.com.au
To make your drip system the most effective, you may need to consider these products.

<table>
<thead>
<tr>
<th>Use this table as a guide for what you may need for installing your drip irrigation system.</th>
<th>Loc-Sure Clamps</th>
<th>Locking Clamps</th>
<th>Repair Plugs</th>
<th>Pressure Reducer</th>
<th>Punch</th>
<th>Hold Down Stake</th>
<th>Inline Filter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>13mm or 19mm</td>
<td>13mm or 19mm</td>
<td>4mm</td>
<td>Fits 3/4&quot; or 1&quot; garden taps</td>
<td>Punches holes for drippers and 4mm fittings</td>
<td>For 13mm Poly Tube, Drip Eze or 12mm Water Weeper</td>
<td>13mm or 19mm</td>
</tr>
<tr>
<td><strong>Use</strong></td>
<td>Used to secure barbed fittings to poly pipe or Drip Eze. Loc-Sure Clamps are the most suitable clamps for drip systems.</td>
<td>Used to secure barbed fittings to poly pipe or Drip Eze. Easy to use, can be squeezed tight by hand.</td>
<td>Use when repairing holes in 13mm poly pipe or Drip Eze, or as an end peg for 4mm pipe or Drip Eze.</td>
<td>Lowers the available pressure from your garden tap to a suitable level for drip irrigation. Fits directly onto your garden tap.</td>
<td>Easily and quickly punches holes in 13mm poly pipe or Drip Eze to make inserting drippers or tricklers easy. Also used for inserting 4mm adaptors into 13mm tubing.</td>
<td>Secures tubing in place. Particularly useful when using bends and curves. Stakes ensure line does not lift or move so that water is distributed in the right place.</td>
<td>Should be used in every drip application to ensure that dirt or particles are filtered from the water before reaching the dripper system. Connects to 13mm or 19mm tubing with Loc-Sure or Locking Clamps.</td>
</tr>
</tbody>
</table>

Look for products with this symbol.

For more information visit [www.popeproducts.com.au](http://www.popeproducts.com.au)
Sandy soil and potting mix

Sandy soil and potting mix have very fast drainage. This means you should use drippers with lower emission rates so the water seeps more slowly into the soil and water can be absorbed by the root zone, rather than bypassing the roots.

Larger plants such as trees, shrubs & bushes

Established plants generally require more water than smaller or younger plants and they require it less frequently. Often, a good long soak is recommended.

Consider using higher flow rate products such as 4 or 8 litre per hour drippers and ensure coverage is around the root areas of the trunk.

---

**Fast Water Emission Rate**

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**Slow Water Emission Rate**

---

**Where to Place Drippers**

Drippers should be placed almost in line with the width of the tree.

**Loop around Trees**

Drippers should be spaced evenly around the tree.

For more information visit www.popeproducts.com.au
Useful Hints and Tips

More Handy Hints

Use a Punch to pierce holes in 13mm poly pipe.

For hanging baskets, use 4mm poly and a 4mm adaptor to apply water direct to basket.

Using a pressure reducer lowers the available pressure from your garden tap to a suitable level for drip irrigation.

For potted plants use drippers, poly and a 4mm adaptor to water the base of the plant.

Use a Repair Plug if fittings need to be moved.

Always use a filter, to prevent particles from blocking drippers and clean out your filter regularly.

For more information visit www.popeproducts.com.au
Useful Hints and Tips

How much water does your soil hold?

Check your soil type to calculate how much water your soil will hold. This will help you understand how often you should water.

- Grab a hand-ful of soil and squeeze it gently with your fingers (don’t do this when the soil is very wet or very dry). Open your fist and gently poke at the soil.

1. Sandy Soil
   If the soil falls apart completely you have sandy soil which allows water to run straight through and therefore plants don’t get enough water and dry out quickly.

2. Loam Soil
   If the soil gently breaks into small clumps, you have loam which is the ideal soil. It contains a mix of particles, allowing water to move more slowly through the soil.

3. Clay Soil
   If the soil stays tightly in a clump, you have clay soil which doesn’t allow water to flow through it therefore roots don’t grow well, and plants get waterlogged.

As a general rule sandy soil will need to be watered more frequently than loamy or clay soil which will hold more water.

Watersmart Checklist: Save water in your garden!

1. Check the light
   How many hours of direct sun does each area of your yard get? This will influence how often you need to water.

   - 1 to 4 hours of sun or 3 to 6 hours of dappled sunlight means you have a shade garden.
   - 4 to 6 hours of sun or 6 to 8 hours of dappled sunlight means you have partial shade.
   - More than 6 hours of sun a day means you have a sun garden.

2. Check you compost levels
   No matter what type of soil you have, adding organic matter allows for the ideal flow of water through the soil. You can easily make your own at home. By using compost or mulch in your garden you can stop water loss through evaporation and also prevent soil erosion. Mulching can prevent up to 73% of soil evaporation loss whilst it also restricts weed growth.

3. Check your plants and placement
   Select plants and grass suited to your climate, the amount of light, and soil type. Native plants are the best choices. Incorporate “hydrozones” within your landscape. Hydrozones are areas where you can group plants with similar water requirements.

4. Check your garden is weed free
   Weed Be on top of your weeding in the garden. Weeds compete with the plants in your garden for water. Be water wise and don’t water the weeds!

For more information visit www.popeproducts.com.au
**Useful Hints and Tips**

### Glossary of terms

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Drip Eze</strong></td>
<td>Unlike standard poly pipe that must have drippers manually inserted, Drip Eze has emitters that are inserted inside poly pipe as it is being produced. The emitters are welded to the inside of the wall resulting in a hassle-free rugged and economical watering solution. Installation is especially easy - just unroll the tubing, connect to the water source and you’re done.</td>
</tr>
<tr>
<td><strong>Filter</strong></td>
<td>A filter is always recommended when using drip watering products. A filter will block dirt and other particles that may enter the drip system, blocking drippers and making them less effective. Filters should be cleaned of debris regularly and should always be installed before the first emitter in the system.</td>
</tr>
<tr>
<td><strong>Fixed Flow (or discharge)</strong></td>
<td>A fixed amount of water that is emitted. For example, 2 litres per hour.</td>
</tr>
<tr>
<td><strong>Inline Drippers</strong></td>
<td>Inline drippers are drip emitters that are pre-inserted into a hose or pipe system. Inline drip systems include Drip Eze and Dripper Hose.</td>
</tr>
<tr>
<td><strong>kPa</strong></td>
<td>The abbreviation for kilopascals. This is a measure of pressure used with water flow. For example, 100 kPa would be typically considered low pressure, while 700 kPa or more would typically be considered high pressure. Pressure gauges can be used to accurately determine water pressure if required.</td>
</tr>
<tr>
<td><strong>Loc-Sure Clamps</strong></td>
<td>Loc-Sure clamps are manufactured from a metal alloy and are recommended for use with all drip applications. They have a high resistance to corrosion, will not be damaged or become brittle with exposure to UV rays. This means that they are the most secure method for securing poly pipe or Drip Eze and fittings together. This is particularly beneficial for drip systems which may be run at higher pressures for longer periods than other fixed watering systems.</td>
</tr>
<tr>
<td><strong>Spacing</strong></td>
<td>The distance between emitters or rows of emitters. Drip Eze contains pre-installed emitters spaced every 30cm while Dripper Hose has pre-installed drippers spaced every 10cm.</td>
</tr>
<tr>
<td><strong>Ultra Drippers</strong></td>
<td>Drippers that provide optimum utility in the garden. They can be used on slopes, can be covered with mulch, resist the ingress of insects and can be easily taken apart and cleaned.</td>
</tr>
<tr>
<td><strong>Variable Flow (or discharge)</strong></td>
<td>A variable amount of water that is emitted. This may be because the flow is manually adjustable or because the product has an imprecise delivery of water.</td>
</tr>
<tr>
<td><strong>Water Pressure</strong></td>
<td>The “force” with which water is discharged for example from a tap, a water tank etc.</td>
</tr>
<tr>
<td><strong>Weeping Hose</strong></td>
<td>Typically made of recycled rubber, weeping hose is constructed with thousands of tiny pores that allow small droplets of water to escape along the entire length and all around the hose. Unlike emitters with a controlled flow rate, weeping hose may have varying water emission rates, depending on the pressure under which they are operated and the length of the hose overall.</td>
</tr>
</tbody>
</table>

Drip Eze is available in 4mm and 13mm diameters, and is suitable for covering with mulch.

**Drip Irrigation System**

A complete arrangement of products that when put together deliver water from the source to the garden. A system may include devices such as timers or controllers as well as other individual components.

**Dripper**

A water emitting device that delivers a slow rate of water to the garden. Generally, drippers emit a precise amount of water that is controlled through some type of regulating device within the dripper itself.

**Filter**

A filter is always recommended when using drip watering products. A filter will block dirt and other particles that may enter the drip system, blocking drippers and making them less effective. Filters should be cleaned of debris regularly and should always be installed before the first emitter in the system.

**Fixed Flow (or discharge)**

A fixed amount of water that is emitted. For example, 2 litres per hour.

**Inline Drippers**

Inline drippers are drip emitters that are pre-inserted into a hose or pipe system. Inline drip systems include Drip Eze and Dripper Hose.

**kPa**

The abbreviation for kilopascals. This is a measure of pressure used with water flow. For example, 100 kPa would be typically considered low pressure, while 700 kPa or more would typically be considered high pressure. Pressure gauges can be used to accurately determine water pressure if required.

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Loc-Sure clamps are manufactured from a metal alloy and are recommended for use with all drip applications. They have a high resistance to corrosion, will not be damaged or become brittle with exposure to UV rays. This means that they are the most secure method for securing poly pipe or Drip Eze and fittings together. This is particularly beneficial for drip systems which may be run at higher pressures for longer periods than other fixed watering systems.

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The distance between emitters or rows of emitters. Drip Eze contains pre-installed emitters spaced every 30cm while Dripper Hose has pre-installed drippers spaced every 10cm.

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Drippers that provide optimum utility in the garden. They can be used on slopes, can be covered with mulch, resist the ingress of insects and can be easily taken apart and cleaned.

**Variable Flow (or discharge)**

A variable amount of water that is emitted. This may be because the flow is manually adjustable or because the product has an imprecise delivery of water.

**Water Pressure**

The “force” with which water is discharged for example from a tap, a water tank etc.

**Weeping Hose**

Typically made of recycled rubber, weeping hose is constructed with thousands of tiny pores that allow small droplets of water to escape along the entire length and all around the hose. Unlike emitters with a controlled flow rate, weeping hose may have varying water emission rates, depending on the pressure under which they are operated and the length of the hose overall.
Drawing to scale  Use a tape measure to measure your borders. One square equals one metre.