

Provender Nurseries

DIY IRRIGATION GUIDE

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DIY IRRIGATION GUIDE

There are many benefits of using an irrigation system in your planting schemes. Irrigation systems ensure an efficient use of water providing water directly to the soil surface and rootzone. Frequent watering, with just the right amount of water and no waste, also keeps the ground well oxygenated and promotes optimum plant growth. It's also really simple to create a made-to-measure system, whether large or small, to suit every need.

The other bonus of such a system is a drip irrigation system is more often than not exempt from TUB (temporary use ban – ie hose pipe ban), which is another great benefit of having this system installed and it's not as difficult as you might expect. Check with your water supplier on their own exemption guidelines.

Here is our step-by-step guide to installing your own drip irrigation system.

TYPES OF IRRIGATION

Drip & Micro irrigation is a convenient way to water, flower beds, hanging baskets, hedge rows, plant pots and many other areas that require watering.

Depending of the requirements and area there are 3 possible solutions.

DRIP IRRIGATION

- AQUADUE DUPLO timer for easy setting of automatic watering
- FEEDING HOSE FITTINGS to create the system circuit and split up the different watering zones
- ADJUSTABLE DRIPPERS are essential for managing what each individual plant need
- STAKES are useful for keeping the hose up and securing it in the ground

The self-regulating dripper pipe is an easy to install solution.

The pipe has 2 litre per hour drippers already inserted into the pipe every 33cm, as these are regulated each dripper will evenly deliver a certain volume of water, which makes the irrigation more manageable.

A 50-metre pipe will have roughly 150 drippers along the pipe, meaning in an hour the pipe will deliver 300 litres to the soil, so calculating the timings will allow the user to manage the water much better.

TIMERS & BENEFITS



Adding a timer or control device will ensure your planting scheme is watered at set times of the day and help in the management of the irrigation at inconvenient times or during holidays.

Remember to check your batteries and to bring the timer indoors during winter months!

BASIC DRIPPER PLAN

DRIP IRRIGATION – BASIC PLAN



(NB: Numbers below reference basic plan layout above)

2.	8000625084104		<p>IRRIGATION TIMER AQUADUE DUPLO 2 OUTLETS Battery powered automatic two-way water timer. Large display gives easy to read information, using symbols and numbers. Can be connected to a rain sensor</p>
	8000625910403		<p>DRIP IRRIGATION PRESSURE REDUCER 1 BAR Automatically reduces and maintains inlet water pressure at a constant 1 bar. Connects to 3/4 threaded tap</p>

3.	8000625910090		HOSE COUPLING RAIN JET Quick click ½-inch (13mm) main tube connector. Connects the main tube to the pressure reducer
4.	8000625903627		IRRIGATION PIPE MAIN TUBE 1/2-inch (13mm) main tube. Carries the water from the tap to the area of irrigation
5.	8000625910762		DRIP IRRIGATION BARB CONNECTORS 1/2-inch (13mm) Straight connector. For joining two pieces of 13mm pipe together. Or connecting to either soaker hose or dripper pipe. Pack of 4
6.	8000625903573		SELF-REGULATING DRIP IRRIGATION TUBE Polyethylene tube fitted with internal 2 litres per hour drippers at 33cm intervals. The drippers have a self-regulating mechanism that ensures even irrigation along its entire length
	8000625903702		DRIP IRRIGATION PIPE FEEDING TUBE 1/4-inch (4mm) diameter. Spurs off from the 1/2-inch (13mm) tube for drippers or create a small network
<p>CONNECTING THE NETWORK UP – MAIN IRRIGATION PIPE</p> <p>13mm barb connectors. Claber barb connectors have an easy screw taper, which allows the connector to be screwed into the pipe. This can easily be done by hand</p>			
	8000625910762		DRIP IRRIGATION BARB CONNECTORS 1/2-inch (13mm) Straight connector. For joining two pieces of 13mm pipe together. Or connecting to either soaker hose or dripper pipe. Pack of 4

	8000625910717		DRIP IRRIGATION TEE BARB CONNECTORS 13mm Tee connector. For joining two pieces of 13mm pipe together. Can create a spur to either soaker hose or dripper pipe. Pack of 2
	8000625910816		DRIP IRRIGATION ELBOW COUPLING 13mm Elbow connector. For creating right angle connections. Ideal for when the pipe comes off the timer and drops to the floor. It is recommended to use these connectors rather than allowing the pipe to bend. Pack of 2
	8000625910861		DRIP IRRIGATION END STOPPER 13mm end stop. Caps off the end of all types of 13mm pipe. Pack of 4
	8000625910960		DRIP IRRIGATION TUBE CLAMP Pipe clamp. Used at the connection points to stop leaks or loosening of connections.
	8000625912803		DRIP IRRIGATION SHUT-OFF VALVE 3mm shut-off valve. When multiple pipes are spread around the garden, the shut off valve allows for certain areas to be isolated without disturbing the rest of the network.
7.	8000625910908		DRIP IRRIGATION SUPPORT STAKE 13mm stake. Used to secure the pipe into the soil. Packs of 8 and 15

CONNECTING THE NETWORK UP – FEEDING TUBE IRRIGATION

13mm barb connectors. Claber barb connectors have an easy screw taper, which allows the connector to be screwed into the pipe.

	8000625911554		<p>DRIP IRRIGATION 2-WAY COUPLING 4mm Straight connector. For joining two pieces of 13mm pipe together. Or connecting to either soaker hose or dripper pipe. Pack of 10</p>
	8000625911417		<p>DRIP IRRIGATION TEE BARB CONNECTORS 4mm Tee connector. For joining to pieces of 13mm pipe together. Can create a spur to either soaker hose or dripper pipe. Pack of 10</p>
	8000625911431		<p>DRIP IRRIGATION ELBOW BARB CONNECTORS 4mm Elbow connector. For creating right angle connections. It is recommended to use these connectors rather than allowing the pipe to bend. Pack of 10</p>
	8000625911707		<p>DRIP IRRIGATION HOLE PLUGS For sealing holes in the 1/2 main tube, or ends of the 1/4 feed tube</p>
	8000625911455		<p>DRIP IRRIGATION 4-WAY COUPLING Enables coupling of four, 1/4 inch (4-6mm) feeding tube sections</p>

	8000625912704		<p>DRIP IRRIGATION SHUT-OFF VALVE 4mm shut off valve. When multiple pipes are spread around the garden, the shut off valve allows for certain areas to be isolated without disturbing the rest of the network. Pack of 5</p>
	8000625911851		<p>DRIP IRRIGATION HOLE PUNCH / SPANNER Used to puncture the 13mm pipe, so 4mm connectors or drippers can be installed into the pipe. Also has a micro sprinkler spanner so the sprinkler heads can be removed and cleaned</p>
	8000625912186		<p>DRIP IRRIGATION 0-10 L/H IN-LINE DRIPPER PLUS In line dripper for localized watering. Adjustable flow rate, 0 to 10L per hour. Pack of 10</p>

SOAKER HOSE / POROUS PIPE

Probably the easiest solution but not the most efficient. The pipe is a rubber pipe which has fissures running along the pipe, allowing the water to slowly leak out. There is no real control over volume of water released, the pressure forces the water out, meaning in most cases the water is unevenly distributed along the pipe as it comes out, it usually exits quicker at the start than at the end. Best suited for flower beds, hedgerows and vegetable patches, etc. For areas up to 25 metres long. Simply lay the pipe out along the area and attach it either to a hose pipe or main irrigation tube.

1811030645494		<p>POROUS PIPE The original brand. Made in the UK from recycled material. Lay the hose on the soil surface, through borders, fruit & vegetable gardens, greenhouses, and cloches. The watering is gentle and precise, using less water than conventional methods. Working at 0.5 - 3 bar pressure, it will deliver 2 - 6 litres per hour. Do not exceed 50 metre runs. Space 30 - 60 cm between lateral lengths.</p>
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A BESPOKE SOLUTION

A bespoke set up will allow the user to fully manage the system and water direct to the root of each plant.

Using both 13mm and 4mm pipe, a system can be created with drippers to build an irrigation network for all kinds of destinations, including pots, hanging baskets and flower beds.

There will be much more planning required for this and some adjustment of the drippers during the initial period.

Plan the area that requires watering, run 13mm pipe from the tap to around the area and using drippers, either puncture the pipe and insert the dripper directly into the pipe or using 4mm connections, spur off to the plant pot or root base using 4mm pipe.

Although you can use 4mm pipe to create a network, this has limits and shouldn't go beyond roughly 20-30 metres. With around 20-30 drippers on the pipe. For longer projects or just for better water efficiency use 13mm pipe.

13mm pipe carries the water. 4mm pipe feeds the water.

HELPFUL TIPS

Watering should take place early morning and in the evening. This is to avoid the water evaporating or scorching. It is also the best time to avoid when people may be using the water supply in the area for things like showers or washing machines

For more technical details please visit the Claber website: <https://www.claber.com/en/>

CHECK OUR COMPLIMENTING FACTSHEETS

<https://www.provendernurseries.co.uk/resources/general-factsheets>

- [Drought Tolerant Plants](#)
- [Plants for Dry Shade](#)
- [How to Conserve Water Usage in the Garden](#)
- [Methods of Tree Irrigation](#)
- [Tree Aftercare](#)