



PROJECTS



Look for the grey labels
in-store

Automation

Take the leap from a basic tap timer to full flow automation.

By automating your irrigation, you can program your system to turn on at the right time of day for the right zone.

By saving water from evaporation, you also save money while growing a healthier garden.

- ✓ Water anytime of the day
- ✓ Control from your smart device
- ✓ No mains power required
- ✓ High flow rates



FEATURING

Pope Solenoid Valve

Solenoid valves are like gates, controlling the water flow into your system.

They range from 13mm - 25mm depending on your available space and flow requirement.





Here's what you'll need to automate your system:



Controller

Tells your system when, where and for how long to water, and has wireless capabilities for even more control.



Solenoid Valve

Acts like a gate to control the flow of water into your system. Look for the arrow that shows the direction of water flow.



Manifold

Connects the water supply to your solenoid valves. Available in 2 - 5 outlets.



Nipple

A male threaded fitting that connects the Solenoid Valve to the Manifold.



Directors

The threaded end attaches to your solenoid valves, and the barbed end then connects to your system.



Valve Box

Houses all the automation parts in a central spot, keeping them safe from weather, kids and pets.



Cable & Cable Connectors

Coloured wire to connect the solenoid valve to the controller.



Poly Pipe & Clamps

Connects everything along your irrigation system, and keeps it in place with commercial-grade clamps.



Sprinklers, Sprays, Pop-ups or Drip Tube

Pair with your selection of water emission devices.



Before you start, calculate your flow rate!

It's important to calculate your flow rate to determine how many sprinklers, sprays, pop-ups or drip tube you can run in one zone.

1. Place a bucket under the tap and turn it on fully.
2. Time how long it takes to fill the bucket.
3. Use this formula: $60 \div (\text{seconds to fill bucket}) \times (\text{bucket size in litres})$
= your flow rate in Litres per minute



Scan to use our
online calculator

1. Plan your system



1. Determine system capacity

Based on your flow rate and the required pressure on your emission device, you can determine how many spray heads or how much drip line you can have in each zone.



2. Select emission device

Use your results from the online calculator to determine how many devices you can use before running out of water.



3. Plot your zones

Figure out how many zones you'll run, so you know how many valves you need and how many ports on your manifold. The number of zones you need will depend on the size of your yard and water flow rate.

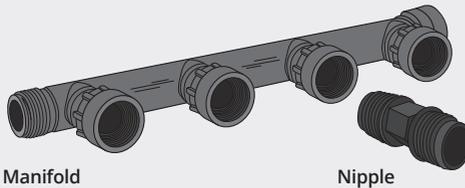


4. Choose location for valve box

Try to get as close as possible to your water source. AC controllers are best positioned close to the house to reduce cable routing. Battery operated DC controllers will allow more flexibility.

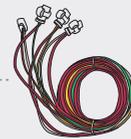
2. Connect your system

This is how the main components of the automated system fit together:



Manifold

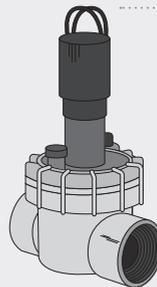
Nipple



Cable



Controller



Solenoid Valve



Loc-Sure Clamps



Director



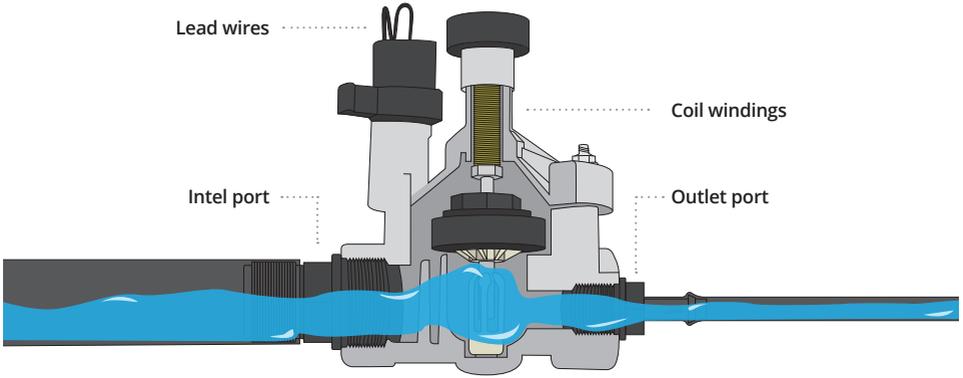
Poly Pipe

Pope Tip!

Use thread tape with your threaded poly fittings for a tighter seal!

? How does a solenoid valve work?

Valves act like gates, letting water flow into your irrigation system. Inside is an electric coil (the solenoid) with a movable centre (the plunger). When an electric current passes through the coil, it creates a magnetic field that prompts the plunger to open the valve.



The difference between AC & DC solenoids:

AC solenoid coils need a constant electrical signal to open, so you'll need to run cable from your controller to the valves.

DC valves are becoming more popular, because they make installing new systems much easier. You don't need to run a cable from the controller. Instead, a waterproof battery controller sits in the valve box and sends a signal to the coil which switches it on.

On average, you should get 12-18 months out of your DC controller battery, depending on how often you run the system.



Not ready for a fully automated system? Keep it simple.

Tap timers are an easy, low-cost option if you only have one zone, can't access the water meter, or find a fully automated system too tricky.

Manual tap timers are easy to use and don't need any batteries. Simply connect them straight to the garden tap and turn the dial to suit you.

Pope's wide choice of battery operated **automatic** tap timers have a range of features including multiple zones, programs and run times.



Pope 2 Hour Tap Timer



Learn more about Automation at gardeningwithpope.com.au

