



## **A kit for testing dynamic pressure**

We have produced this kit that enables you to test your mains water supply for dynamic pressure (flow and pressure).

### **Why :**

A watering system requires pressure (that forces the water out) and a flow of water to operate.

If one sprinkler requires 3 bar pressure, three sprinklers with the same nozzle will still require 3 Bar pressure. However, with flow if a sprinkler requires 0.5 cubic metres per hour (m<sup>3</sup>/h) you will require 1.5 m<sup>3</sup>/h for three sprinklers.

Therefore, if you are looking to operate a watering system off the mains, you need to work out if you have enough pressure and flow (This is called dynamic pressure). The higher the flow the more sprinklers you can have running together.

### **What to do :**

- 1) Assemble the parts as shown in the diagram (you will need to cut the hose in two).
- 2) Connect the “female BSP thread to ¾” hose tail” to the tap.
- 3) Start closing the “gate valve” so the dial on the pressure gauge reads 1.5 Bar if you are looking to install drip or micro sprinklers or 2.5 Bar if you are looking to install pop-up sprinklers.
- 4) Fill a container of known size and time it in minutes.
- 5) We now need to convert the flow to cubic metres per hour (m<sup>3</sup>/h ). See the conversion on the next page.
- 6) The figure given is the maximum flow of the system.

**Tools required :**

- 1) Knife
- 2) Flat headed screw drive
- 3) Stilsons or grips that can extend to 35mm (1 1/2")

**Calculating the maximum flow of a system**

Pressure required ..... Bar (1.5 Drip / Micro sprinklers & 3 Bar for pop-up sprinklers).

Size of container ..... Time taken to fill in minutes .....

If you used gallons, divide the number of gallons by the time it took to fill the container, then times by 0.2727

$$\text{..... Gallons / ..... minutes X 0.2727 = ..... m}^3\text{/h}$$

If you used litres, divide the number of Litres by the time it took to fill the container, then times by

$$\text{..... Litres / ..... minutes X 0.06 = ..... m}^3\text{/h}$$

You can now select sprinkler for your system or select kits from the web site.

Please note you should contact your water board to ensure the kit you select complies with their regulations.



*Giving life to your garden*

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**DYNAMIC PRESSURE**

