

# ACCESS PRESSURE TEST KIT

Both flow and pressure are vital for irrigation. Without enough pressure and flow the sprinklers will not operate. To assess the pressure and flow available in the system a pressure gauge is needed.

In addition, you will need a bucket or a watering can of a known volume.

Container volume: \_\_\_\_\_ litres

**Step One**

Choose a tap that is near to the proposed irrigation system. Fit the test unit to the tap, open the valve on the test kit, open the tap to allow water to flow, then close the valve on the test kit. Read the static pressure.

Static Pressure: \_\_\_\_\_ bar

**Step two**

Open the valve slowly until the pressure drops to the next whole bar pressure (eg. if the static pressure was 4.3 bar open the tap until the pressure on the gauge reads 4.0 bar). Put the container under the water flow and time how many seconds it takes to fill the container. Note the pressure and time below.

**Step three**

Repeat with the pressure 1 bar lower. Keep repeating down to 1 bar.

**Step four**

Calculate the flow from the time and container volume using the following formula:

$$\frac{\text{Container Volume} \times 3,600}{\text{Time to fill}}$$

Pressure (Bar)	Time to fill container	Flow (litres / hour)