

IRRIGATION DESIGN

Flow and Pressure Test

Only needed if your system will connect to a hose bib (Option 2 on the checklist). It takes about ten minutes.

You'll need

A pressure and flow tester (borrow one from any ProSource branch), a **5-gallon bucket** and a **stopwatch** (your phone works).

1 Read your static pressure

Screw the tester onto the hose bib with its ball valve **closed**, and open the hose bib all the way. Write down the gauge reading: that's your **static PSI**.

2 Time the bucket at 60, 50 and 40 PSI

1. Slowly open the tester's ball valve until the gauge drops to **60 PSI**.
2. Put the bucket under the tap, start the stopwatch, and stop it when the bucket is full.
3. Write down the seconds, then do it again at **50 PSI** and **40 PSI**.
4. Optionally, open the ball valve all the way and time it once more: that's your flow at **0 PSI**.

3 Work out your flow

Gallons per minute = $5 \div \text{seconds} \times 60$. In a PDF reader that supports it, the GPM fills in by itself.

Example: the bucket fills in 40 seconds. $5 \div 40 \times 60 = 7.5$ GPM.

4 Your results

Static PSI

PRESSURE

SECONDS TO FILL THE BUCKET

FLOW (GPM)

60 PSI

50 PSI

40 PSI

0 PSI wide open, optional

Copy these onto the Irrigation Design Checklist (Option 2), or enter them in the online form on the Design Services page.