



COLLECTING PSI DURING AN IRRIGATION ASSESSMENT

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REASONS TO NEED TO CHECK PSI

- Verify system is running at optimal psi
- Verify system is running at least minimal psi
- Compare psi at highest to lowest elevation in system
- Compare psi at beginning and end of run
- Locate a problem
- Evaluate general system operation
- Any other reasons? Discuss

WHAT ARE YOU DOING NOW?

- Discuss how people are gathering PSI reading in the field

DIFFERENT WAYS TO COLLECT PSI

- The traditional way-Pitot tube with gauge
- Guess-Does it look low or high?
- DIY contraptions-Perhaps useful, but is it all purpose?
- The new way-A rubber tipped PSI Testing tool

TRADITIONAL WAY TO COLLECT PSI

- Pitot tube with gauge attached
 - Advantages
 - Precise, direct flow to gauge
 - Does not have to completely seal to be useful
 - Disadvantages
 - Creates loss of flow
 - Requires a goof plug to seal after use
 - Makes a mess



GUESSING AND DIY

- If your system is having issues, guessing is never a good way to test PSI.
 - If it works, it works, but is it efficient and consistent?
- DIY methods
 - If you build a contraption to test PSI, have a way to validate your findings with a known method.
 - You may need more than one tool if you are dealing with integrated emitter tubing vs online emitters.

THE NEW WAY

- A gauge fashioned with a flexible rubber tip
 - The tip is strong yet supple
 - Not sharp, more pocket friendly
 - Durable, it can stretch to fit over larger woodpecker style emitter outlets
 - Fits over single outlet integrated emitter tubing
 - A great alternative to poking holes with a pitot tube and having to fix them



REASONS TO GIVE IT A TRY WITH TAPE TUBING PRODUCTS

- Goof plugs do not always do the trick
- Pitot tube can poke through other side, creating the need for a coupling
- Thin mil products are extremely PSI sensitive
- Tape tubing typically have long runs, need beginning and end PSI
- Terrain changes can causing psi losses and gains that need to be verified

WORKS WITH VARIOUS TYPES OF EMISSION DEVICES



CONTINUED



INTEGRATED, OPEN-ENDED, BARBED



INTEGRATED, MULTI-SIZE



CONTINUED



WHEN WILL I NEED IT?

- When you need to troubleshoot a problem
- Is your adjustable psi regulator working?
- Is your preset regulator doing its job?
- Is your VFD pump set correctly?
- Are you using a variable flow product? You'll need to know what psi you are running
- I have a clog in a subsurface line and need to find the problem

HOW TO MAKE YOUR OWN

- 1/8" Mipt x Rubber tip
- 1/4" x 1/8" Bell reducer
- Liquid filled gauge

QUESTIONS, COMMENTS, LAB

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