



The Pressure Problem – explained!

High Pressure - Also identified as misting.

Irrigation system emission devices (spray and rotor heads) are designed to operate at optimum supply pressure. Ideal supply pressure is 30 PSI for spray heads and 50 PSI for rotors. Any emission device operating at high pressure will wastewater through excessive flow and introduces damaging stress on all irrigation system components. The effects of an irrigation system operating under high pressure include; misting, high flow rates, excessive evaporative loss, wind drift and irrigation system component stress.

High Pressure - Irrigation is blowing in the wind...

Under excessive pressure, flow rates will be higher than necessary or expected in gallons per minute (GPM). Much of the misting water will evaporate and or be wind drifted before reaching the landscape resulting in inefficient application of water. The effects of high pressure contributes to poor distribution uniformity and causes tremendous stress on the integrity of the irrigation systems' components leading to; high maintenance, repair expenses and operating costs.

Fix or improve an over-pressurized irrigation system or zone by placing pressure regulating components in appropriate places. Use pressure regulating components or a combination of them depending on specific site conditions; for the whole system, for a single irrigation zone, or both. Call a licensed irrigation professional to diagnose and recommend the best way to provide the pressure regulation that is needed

Options:

- A pressure regulator installed on the irrigation system mainline.
- Pressure regulating heads in zones that have high pressure (all heads need to be pressure regulating heads installed in a zone to solve the problem).
- Pressure regulating valves in problem zones. Pressure regulating valves are available in adjustable or pre-set ranges that regulate the pressure to the optimal range automatically through all the emission devices in the zone that the valve is controlling.

Check waterwiseaustin.org for possible irrigation upgrade rebates

Save money, reduce maintenance & operating expenses and improve efficiency – control your pressure! It's a good thing!