



TORO®

# UNDERSTANDING PRESSURE REGULATION IN SPRINKLERS

## WHAT IS IT AND WHAT ARE THE BENEFITS FOR YOU AND YOUR CUSTOMER?



**A**s an irrigation professional, you know there are many parts to make an irrigation system run. While pressure regulating sprinklers, like [Toro's 570Z PR Series](#) and [PRX Series spray bodies](#), are not required in all states, they can be key to making an irrigation system run more consistently and reliably. It can also help your customers save water.

"Pressure regulators help sprinklers work more efficiently," said Alexis Deasy, senior marketing communications manager for The Toro Company's Irrigation and Lighting business. "Because they operate at optimal pressure, they are able to provide consistent water application which is better for lawns and landscapes."

Here is a little more about pressure regulation and its benefits.

### WHAT ARE PRESSURE REGULATING SPRINKLERS?

Pressure regulators automatically adjust the water pressure flowing through the sprinkler, ensuring consistency throughout the system. For many sprinklers, this means keeping the recommended operating water pressures between 30-40 pounds per square inch (psi).

Water pressure has a direct impact on water flow. When a sprinkler doesn't have a pressure regulator, the flow fluctuates and there may be excess water applied during irrigation. This may mean that sprinklers closer to the water source may expel too much water while sprinklers at the end of the zone won't be expelling enough. It may also cause "fogging" or "misting," which occurs when fine water droplets remain suspended in the air. There are many reasons for pressure fluctuation, including elevation changes in a landscape or multiple water sources.



*Without Pressure Regulation*



*With Pressure Regulation*

## **WHAT ARE THE BENEFITS OF PRESSURE REGULATING SPRINKLERS?**

Any irrigation system can benefit by having pressure regulating sprinklers. One benefit is keeping water distribution consistent, which means irrigation will be more

uniform. In turn, this will create a thriving and healthy landscape for your customers since plants will receive the same amount of water and prevent over- or under-watering.

Saving water is another benefit of pressure regulating sprinklers. They significantly reduce misting and fogging, which means water droplets are not wasted due to evaporation, being blown away or falling on hardscapes and other structures instead of the lawn and plants. This results in considerable water savings and a lower water bill.



Whether a customer is needing a portion of their irrigation system replaced or a new system installation, choosing pressure regulating sprinklers is an easy choice for long-term benefits, leaving you with satisfied customers. For more information about pressure regulating sprinklers, visit [Toro's website](#) or your local Toro distributor.