

PRESSURE REGULATOR



**It's specially designed for irrigation uniformity.
The only regulator in China with real pressure
regulation function.**

RainTek RTPR-2 series regulators can handle flows from 114L/hour to 3407L/hour. These regulators can maintain a constant preset outlet pressure with varying inlet pressures.

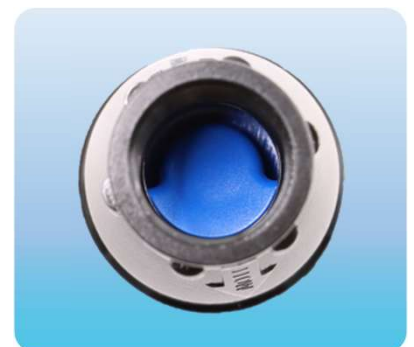
Features and Benefits

Irrigation systems are designed to distribute a predetermined amount of water over a specific area. The sprinklers operate within a specific range of flows and pressures. Because pressure affects flow, pressure regulators are used, so the sprinklers can run at the designed operating pressure to help assure delivery of the designed application rate.



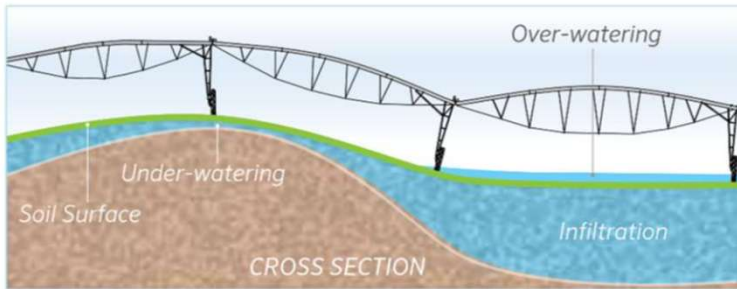
Product Number	Description
RTPR-2-SE06	6PSI (0.69Bar), 114-3407 L/hour, 3/4" F NPT × 3/4" F NPT
RTPR-2-SE10	10PSI (0.69Bar), 114-3407 L/hour, 3/4" F NPT × 3/4" F NPT
RTPR-2-SE15	15PSI (0.69Bar), 114-3407 L/hour, 3/4" F NPT × 3/4" F NPT
RTPR-2-SE20	20PSI (0.69Bar), 114-3407 L/hour, 3/4" F NPT × 3/4" F NPT

- 100% pressure tested, to ensure quality and performance;
- Very low hysteresis and friction loss;
- 3/4" F NPT can fit most sprinklers in the market;
- Special design can prevent the blockage effectively;
- 3-years' warranty on materials, workmanship, and performance;
- CE certificated.

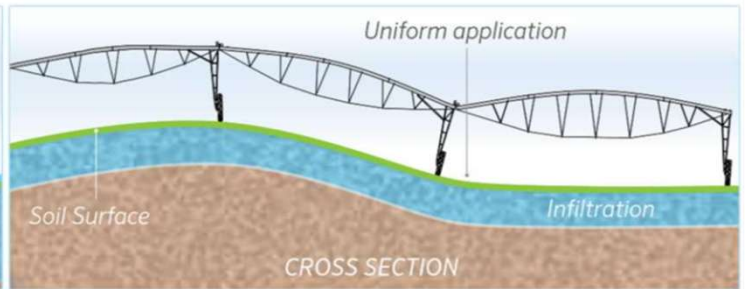


UNDERSTANDING PRESSURE REGULATORS

Without Pressure Regulators



With Pressure Regulators



Irrigation Pressure Variations

All irrigation system experience pressure fluctuations because of:

- * Field elevation changes: every 0.7m of elevation will result in 1 psi pressure change;
- * Hydraulic conditions: pressure loss through pipes and fittings;
- * Pumping scenarios: multiple water sources and pump efficiency.



How Do Pressure Regulators Work

Water travels through the inlets of the regulator across a fixed seat into the critical flow area. Water then enters a hollow cylinder or throttling stem attached to a diaphragm. Increasing inlet pressure causes the valve to close. Decreasing inlet pressure allows the valve to open. The regulated outlet pressure is determined by the spring's compressive strength.

Pressure Regulators Necessity

Investing in new pressure regulators is worth the investment when compared with the time and money lost in wasted input costs and potential yield loss. It can help make the most of the water applied to improve crop yield.



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