

# Senninger PSR & PSR-2

Pressure regulators PSR20; PSR-2-15 y PSR-2-30



Senninger pressure regulators maintain a constant preset outlet pressure that can be matched to the applicator design, regardless of variations in inlet pressure. This helps maintain sprinkler pattern integrity and performance.

**The patented PSR-2 is ideal for systems pumping surface water.**

Senninger introduced the first high-quality in-line pressure regulator to the irrigation industry in 1966.

## FEATURES

- Flows: 0.5 to 15 gpm (114 to 3407 L/hr) allows the use of the same model along the entire machine.
- Each regulator maintains a constant preset outlet pressure based on its flow/inlet pressure.
- Outlet pressures: 6 to 50 psi (0.41 to 3.45 bar)
- Tamper-proof housing
- Very low hysteresis and friction losses
- 100% pressure tested to ensure quality and performance

## APPLICATION INTENSITY

Uncontrolled pressure fluctuations in irrigation systems result in unwanted flow deviations and over and under-watering. These fluctuations occur with the cycling on/off of an end gun, activation of a corner arm, variations in field elevation or water supply. Proper use of pressure regulators helps maintain the overall efficiency.

PSR Y PSR-2 DESIGN CRITERIA	Preset Operating Pressure	Maximum Inlet Pressure	Flow Range	Outlet-Inlet Sizes
PSR-2-15	15 psi (1,03 bar)	95 psi (6,55 bar)	0,5 - 15 gpm 114 - 3407 L/hr	3/4"-3/4" Female NPT
PSR - 20	20 psi (1,38 bar)	100 psi (6,89 bar)		
PSR-2-30	30 psi (2,07 bar)	110 psi (7,58 bar)		

The pressure regulator shall maintain the predetermined operating pressure provided that the inlet pressure is at least 5 psi (0.34 bar) above the expected outlet pressure, but not exceeding the maximum inlet pressure as shown above.

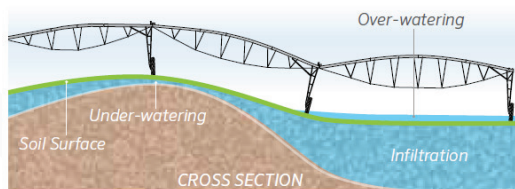
**CAUTION:** Always install downstream from all shut-off valves. Not NSF certified. Recommended for outdoor use only.

DESIGN PRESSURE	Pressure Variations			
	1 psi (0,69 bar)	2 psi (1,38 bar)	3 psi (2,07 bar)	5 psi (2,76 bar)
6 psi (0,41 bar)	8,3%	16,7%	25,0%	41,7%
10 psi (0,69 bar)	5,0%	10,0%	15,0%	25,0%
15 psi (1,03 bar)	3,3%	6,7%	10,0%	16,7%
20 psi (1,38 bar)	2,5%	5,0%	7,5%	12,5%
% Flow Variation				

Pressure regulators are recommended if there is a 10% pressure and/or a 5% flow variation. The lower a system's design pressure, the more critical it is to accurately control its pressure.

## Without Pressure Regulators

Many irrigation systems have the potential to experience elevation and pressure changes, which cause flow fluctuations on unregulated systems.



## With Pressure Regulators

Distribution remains uniform even as elevation changes.

