

1" & 1½" High Flow Inline Pressure Regulators

One Pressure Regulator Family, a Wide Range of Possibilities.

Applications

Rain Bird's High Flow Inline Pressure Regulators provide a wider flow range (0.5 gpm to 70 gpm) while delivering reliable pre-set pressure regulation protecting the integrity of irrigation systems.

Inline pre-set pressure regulators can be used in any irrigation system to ensure the system maintains a constant pressure, protecting it from any irregular pressure spikes.

Features

- **High Flow Range:** 0.5 gpm (1.9 l/min) to 70 gpm (265 l/min) allows usage in a wide range of applications.
- **Reliable Performance:** Pre-set inline regulation provides consistent regulation with minimal pressure loss at any flow within its operating range.
- **Durability:** Made of high quality materials that withstand reclaimed water and harsh environments.

Operating Range

- **Flow Range:** 0.5 (1.9 l/min) to 70 gpm (265 l/min) allows usage in a wide range of applications
 - **PSI-H40X-100:** 0.5 gpm (1.9 l/min) to 35 gpm (132.5 l/min)
 - **PSI-H50X-100:** 0.5 gpm (1.9 l/min) to 35 gpm (132.5 l/min)
 - **PSI-H40X-150:** 15 gpm (56.8 l/min) to 70 gpm (265.0 l/min)
- **Regulated Pressure:**
 - **PSI-H40X-100:** 40 psi (2.75 bar)
 - **PSI-H50X-100:** 50 psi (3.44 bar)
 - **PSI-H40X-150:** 40 psi (2.75 bar)
- **Operating Pressure:** 15 psi (1.0 bar) to 150 psi (10.3 bar)
- **Water Temperature:** 33°F up to 110°F (0.5°C to 43°C)
- **Ambient Temperature:** 33°F up to 125°F (0.5°C to 52°C)

Models

- **PSI-H40X-100:** 1" 40 psi inline Pressure Regulator
- **PSI-H50X-100:** 1" 50 psi inline Pressure Regulator
- **PSI-H40X-150:** 1½" 40 psi inline Pressure Regulator

Specifications

- **Dimensions:**
 - **PSI-H40X-100:** 5.8" (14.7 cm) Length x 2.7" (6.8 cm) Width
 - **PSI-H50X-100:** 5.8" (14.7 cm) Length x 2.7" (6.8 cm) Width
 - **PSI-H40X-150:** 6.3" (16.0 cm) Length x 3.3" (8.4 cm) Width
- **Size (Inlet/ Outlet):**
 - **PSI-H40X-100:** 1" Female NPT x 1" Female NPT
 - **PSI-H50X-100:** 1" Female NPT x 1" Female NPT
 - **PSI-H40X-150:** 1½" Female NPT x 1½" Female NPT



How to Specify

PSI – H XX X – 100

Model
Pressure
Regulator

Inlet/Outlet Size
100 = 1 in (2.5 cm)
150 = 1½ in (3.8 cm)

Pre-Set Pressure Regulation
40 = 40 psi (2.8 bar)
50 = 50 psi (3.5 bar)

Flow Range Capacity
H = High Flow (up to 70 gpm; 265 l/min)

Specifications

The 1" pressure regulators shall have an operating pressure range of 15 psi (1.0 bar) to 150 psi (10.3 bar) maximum and an operating flow range of 0.5 gpm (1.9 l/min) to 35 gpm (132.5 l/min).

The 1 ½" pressure regulator shall have an operating pressure range of 15 psi (1.0 bar) to 150 psi (10.3 bar) maximum and an operating flow range of 15 gpm (56.8 l/min) to 70 gpm (265 l/min).

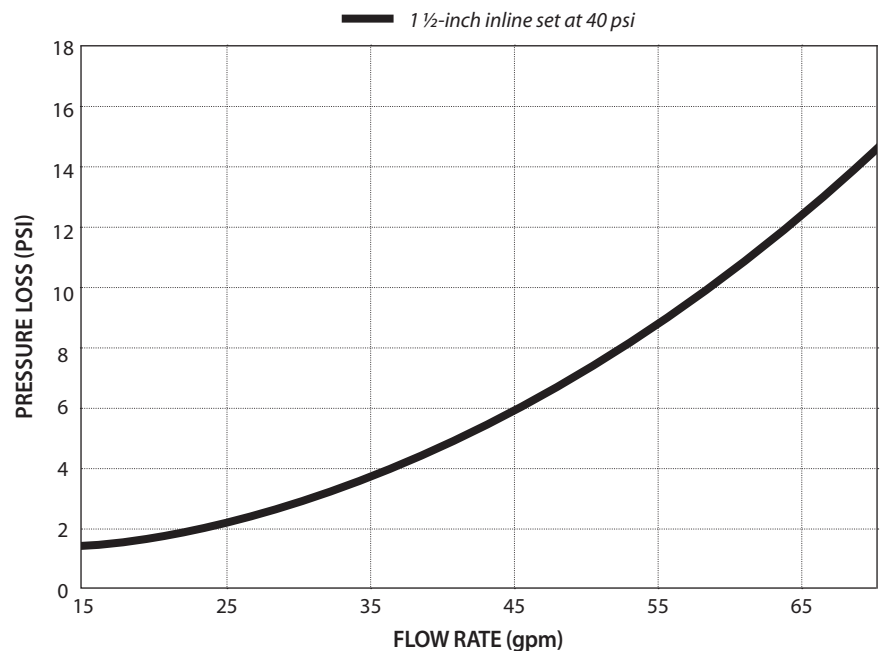
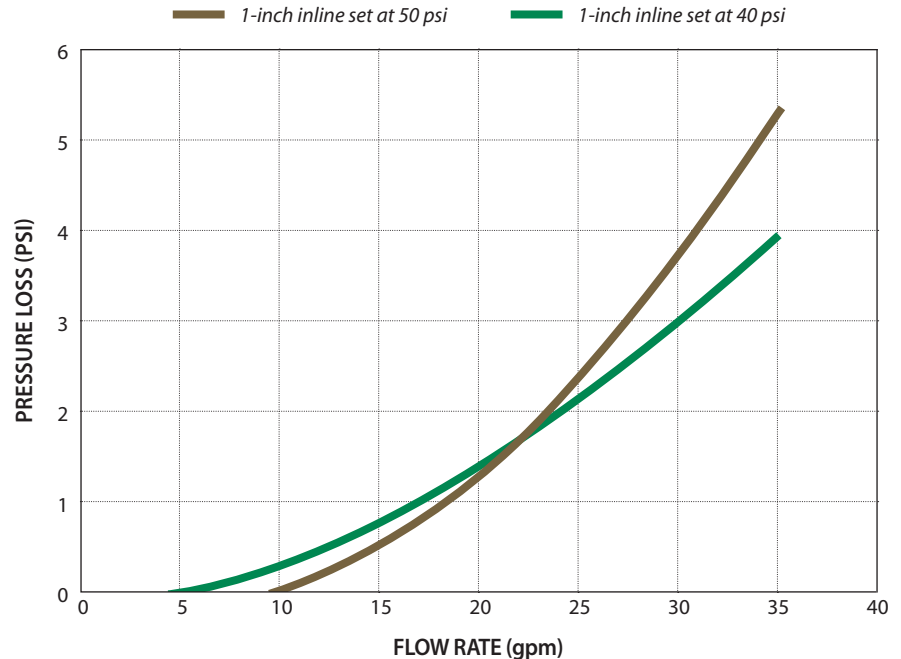
The body of the pressure regulator is made out of a high grade thermoplastic polymer called Acrylonitrile Butadiene Styrene (ABS). The internal components, including the spring (stainless steel), seals, and the diaphragm have been tested to withstand chemicals commonly found in reclaimed water.

Installation

Install according to the proper direction of water flow in the irrigation system, as marked by the arrow printed on the body of the pressure regulator.

DO NOT USE PIPE DOPE ON THIS PRODUCT. The chemicals found in most pipe dope will damage ABS plastic material. Instead, we recommend that the sealant standard used for any Rain Bird pressure regulator should be Teflon tape on the threads of any components that are metal-to-plastic or plastic-to-plastic.

Flow Rate vs. Pressure Loss



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