

PRS-Dial Pressure Regulating Module

The PRS-Dial is an excellent means of regulating outlet pressure at the valve regardless of incoming pressure fluctuations. The visible scale makes installation quick and easy. The regulator fits all Rain Bird PGA, PEB, PESB, PESB-R, EFB-CP, and BPES series valves.

Features

- Regulates and maintains constant outlet pressure between 15 and 100 psi (1.04 to 6.90 bar) within ± 5 psi (± 0.34 bar)
- Improved spike reduction capabilities reduce water hammer
- Ergonomic design with snap-tight cover to prevent vandalism
- Waterproof dial cartridge eliminates fogging and binding
- Schrader valve connects pressure hose gauge
- Easy field installation. PRS-Dial threads underneath the solenoid and adapter
- Corrosion-resistant glass-filled nylon for rugged performance

Operating Range

- Pressure: up to 100 psi (6.90 bar)*
- Regulation: 15 to 100 psi (1.04 to 6.90 bar)
- Accuracy: ± 5 psi (± 0.34 bar)
- Flow: refer to chart
- Temperature: up to 150°F (66°C)

* While the PRS-Dial unit can withstand pressure up to 200 psi (13.80 bar), accurate pressure regulation can be maintained only up to 100 psi (6.90 bar).

Application Information

- Proper operation requires inlet pressure to be a minimum of 15 psi (1.04 bar) higher than desired outlet pressure.
- For areas with very high pressure or uneven terrain, install sprinklers with PRS pressure regulating stems and/or SAM check valves.
- When inlet pressure exceeds 100 psi (6.90 bar), a pressure regulating master valve or inline pressure regulator is required.
- Rain Bird does not recommend using the pressure regulating module for applications outside the recommended flow ranges.



- To reduce the effects of water hammer, Rain Bird recommends flow rates in the supply line not to exceed 7.5 ft/sec (2.29 m/s).
- For flows below 10 gpm (2.27 m³/h; 37.8 l/m), Rain Bird recommends the flow control stem be turned down two full turns from the fully open position.
- For flows below 5 gpm (1.14 m³/h; 19.21 l/m), Rain Bird recommends the use of upstream filtration to prevent debris from collecting below the valve diaphragm.

Recommended Flow Ranges*

| Model | gpm | m ³ /h | l/m |
|-----------------|--------|-------------------|----------|
| 100-PGA | 5-40 | 1.14-9.08 | 19.2-151 |
| 150-PGA | 30-100 | 6.81-22.70 | 113-378 |
| 200-PGA | 40-150 | 9.08-34.05 | 151-568 |
| 100-PEB | 5-50 | 1.14-11.35 | 19.2-189 |
| 150-PEB | 20-150 | 4.54-34.05 | 76-568 |
| 200-PEB | 75-200 | 17.03-45.40 | 284-757 |
| 100-PESB/PESB-R | 5-50 | 1.14-11.35 | 19.2-189 |
| 150-PESB/PESB-R | 20-150 | 4.54-34.05 | 76-568 |
| 200-PESB/PESB-R | 75-200 | 17.03-45.40 | 284-757 |
| 100-EFB-CP | 5-50 | 1.14-11.35 | 19.2-189 |
| 150-EFB-CP | 20-120 | 4.54-31.78 | 76-529 |
| 200-EFB-CP | 20-200 | 4.54-45.40 | 76-757 |
| 300-BPES | 60-300 | 13.62-68.10 | 227-1136 |

* These are the valve flow ranges.

Specifications

The pressure regulating module shall be a two-piece device consisting of a glass-filled, UV resistant nylon housing and dial cartridge.

When so indicated on the design, the plastic or brass valve shall have a pressure regulating module (PRS-Dial) which shall have the following characteristics (circle one):

Operating pressure: _____ psi bar

Outlet pressure regulation:
between _____ and _____ psi bar

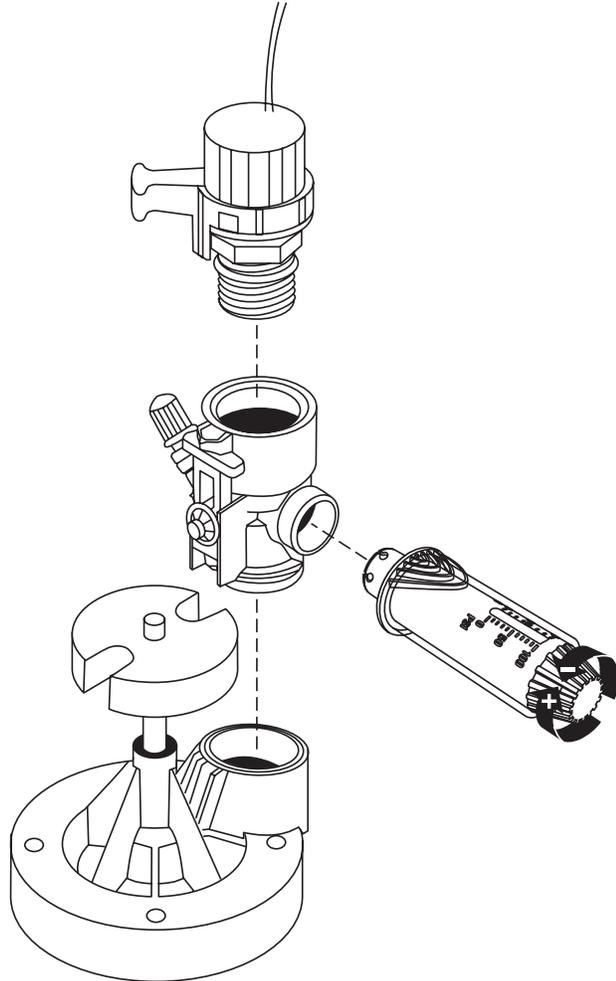
The regulator shall be installed between the plastic or brass valve bonnet and electric solenoid.

The regulator shall have a visible pressure indication scale ranging from 0-100 psi (0.0 to 6.90 bar). The protective cover shall snap tight to deter vandalism.

A schrader valve shall be installed to accommodate a pressure hose gauge for monitoring pressure.

The regulator shall be waterproof to prevent fogging the clear window and to prevent grit from binding internal components. The pressure shall be adjustable when the valve is manually internal bled or electronically activated.

The regulator construction shall be such as to provide replacing the dial cartridge without removing the regulator housing or disturbing the valve installation.



Rain Bird Corporation
6991 East Southpoint Rd.
Tucson, AZ 85756
Phone: (520) 741-6100

Rain Bird Corporation
970 West Sierra Madre Avenue
Azusa, CA 91702
Phone: (626) 812-3400

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www.rainbird.com