

### 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, GB, EFB-CP, BPE and BPES series valves. The dial cartridge (sold separately) retrofits easily into existing PRS-B units.

#### Features

- Regulates and maintains constant outlet pressure between 15 and 100 psi (1,04 to 6,90 bars) within  $\pm 3$  psi ( $\pm 0,21$  bars)
- Adjustment knob with detents permits fine-tune setting in  $\frac{1}{8}$  psi (0,02 bars) increments
- Improved spike reduction capabilities reduce water hammer
- Ergonomic design with snap-tight cover to prevent vandalism
- Waterproof dial cartridge eliminates fogging and binding
- Dial cartridge retrofits into all existing PRS-B units
- Schrader valve connects pressure hose gauge, ordered separately
- Easy field installation. PRS-Dial threads underneath the solenoid and adapter
- Corrosion-resistant glass-filled nylon for rugged performance

#### Operating Range

Pressure: up to 200 psi  
up to 13,80 bars  
Regulation: 15 to 100 psi  
1,04 to 6,90 bars  
Accuracy:  $\pm 3$  psi ( $\pm 0,21$  bars)  
Flow: refer to chart  
Temperature: up to 150°F (66°C)

#### Models

- PRS-D
- Dial cartridge

#### Application Information

- Proper operation requires inlet pressure to be a minimum of 15 psi (1,04 bars) higher than desired outlet pressure.
- For areas with very high pressure or uneven terrain, install sprinklers with PRS pressure regulating stems or SAM check valves.
- When inlet pressure exceeds 100 psi (6,90 bars), a pressure regulating master valve or inline pressure regulator is suggested.
- 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 m<sup>3</sup>/h; 0,63 l/s), 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 m<sup>3</sup>/h; 0,32 l/s), Rain Bird recommends the use of upstream filtration to prevent debris from collecting below the valve diaphragm.

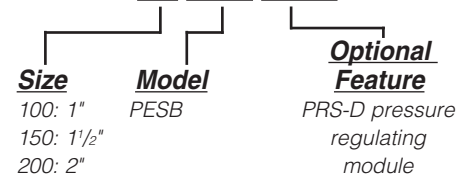
#### Recommended Flow Ranges

	gpm	m <sup>3</sup> /h	l/s
100PGA	5-40	1,14-9,08	0,32-2,52
150PGA	30-100	6,81-22,70	1,89-6,30
200PGA	40-150	9,08-34,05	2,52-9,45
100PEB/PESB	5-50	1,14-11,35	0,32-3,15
150PEB/PESB	20-150	11,35-34,05	3,15-9,45
200PEB/PESB	50-200	17,03-45,40	4,73-12,60
100GB	5-50	1,14-11,35	0,32-3,15
125GB	20-80	4,54-18,16	1,26-5,04
150GB	20-140	4,54-31,78	1,26-8,82
200GB	20-200	4,54-45,40	1,26-12,60
100EFB-CP	5-50	1,14-11,35	0,32-3,15
125EFB-CP	20-80	4,54-18,16	1,26-5,04
150EFB-CP	20-140	4,54-31,78	1,26-8,82
200EFB-CP	20-200	4,54-45,40	1,26-12,60
300BPE	60-300	13,62-68,10	3,78-18,90
300BPES	60-300	13,62-68,10	3,78-18,90
300BPE-MV	60-300	13,62-68,10	3,78-18,90
300BPES-MV	60-300	13,62-68,10	3,78-18,90



#### How to Specify

##### 100-PESB-PRS-D



Note: Valve and PRS-D must be ordered separately.



**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    bars  
Outlet pressure regulation:  
between \_\_\_\_\_ and \_\_\_\_\_ psi    bars

The regulator shall be installed between the plastic or brass valve bonnet and electric solenoid. The electric solenoid shall be 24 VAC 50/60 Hz solenoid and shall open with 19.6 volts minimum at 200 psi (13,80 bars). Average inrush current shall not exceed 0.41 A (9.9VA) and holding current shall not exceed 0.23A (5.5VA).

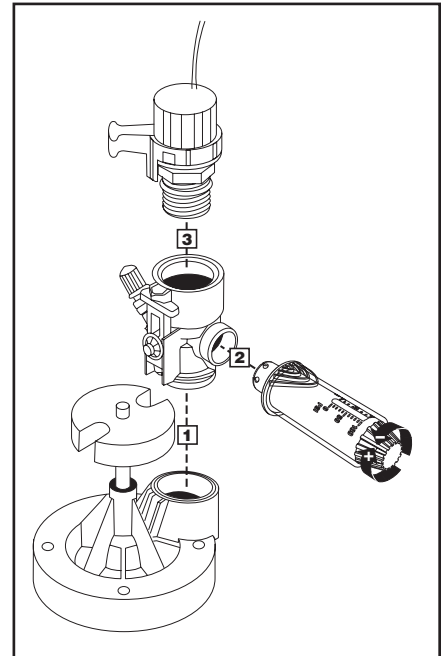
The regulator shall have a visible pressure indication scale ranging from 0-100 psi (0,0 to 6,90 bars) and an adjustment knob with detents that provide fine-tune adjustments in 1/8 psi (0,02 bar) increments. The protective cover shall snap tight to deter vandalism.

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.

The pressure regulating module shall be manufactured by Rain Bird Sprinkler Mfg. Corp., Glendora, California.



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