

## 1800® Series

The #1 irrigation spray head in the world

### Features

- Co-molded wiper seal provides unmatched resistance to grit, pressure and the environment
- Constructed of time-proven UV-resistant plastic and corrosion resistant stainless steel parts, ensuring long product life
- Precision controlled flush at pop-down clears debris from unit, assuring positive stem retraction in all soil types
- Two-piece ratchet mechanism allows easy nozzle pattern alignment and provides added durability
- Five Year Trade Warranty

### Operating Range

- Spacing: 2.5 to 24 feet (0.8 to 7.3m)\*\*
- Pressure: 15 to 70 psi (1.0 to 4.8 bar)

### Specifications

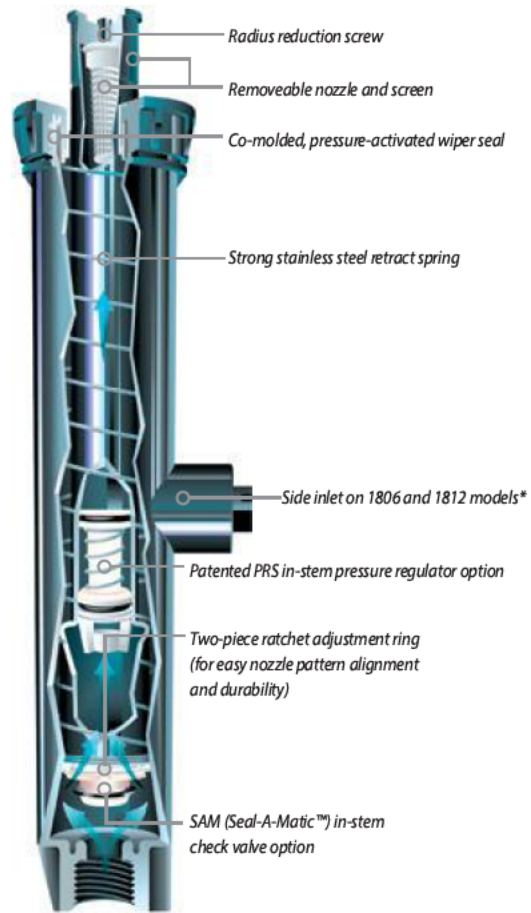
- Flow-by: 0 gpm at 8 psi (0.6 bar) or greater;  
0.10 gpm (0.02 m<sup>3</sup>/h; 0.36 l/m) otherwise

### Dimensions/Models

- ½" NPT female threaded inlet
- Models and height:
  - 1802: 4" (10.2 cm) body height; 2" pop-up height (5.1 cm)
  - 1804: 6" (15.2 cm) body height; 4" pop-up height (10.2 cm)
  - 1806: 9 ¾" (23.8 cm) body height; 6" pop-up height (15.2 cm)
  - 1812: 16" (40.6 cm) body height; 12" pop-up height (30.5 cm)
- Exposed surface diameter: 2 ¼" (5.7 cm)

\* 1806 and 1812-SAM, SAMPRS, and SAM-PRS-45 units do not have a side inlet

\*\* 2.5 to 15 feet with standard Rain Bird Spray Head Nozzles (SQ, U-Series, HE-VAN) 8 to 24 feet with Rain Bird Rotary Nozzles (R-VAN)



Spray Bodies



### How to Specify

#### 1804 SAM-PRS

Option  
SAM: Seal-A-Matic™ check valve  
PRS: Pressure regulator (30psi)  
P4S: Pressure regulator (45psi)

#### Pop-up Height

1802: 2" pop-up height (5.1 cm)  
1804: 4" pop-up height (10.2 cm)  
1806: 6" pop-up height (15.2 cm)  
1812: 12" pop-up height (30.5 cm)

#### Model

1800 Series Spray Bodies

## 1800®-SAM, 1800®-PRS, 1800®-P45, 1800®-SAM-PRS, 1800®-SAM-P45 Series

4", 6", 12" (10.2 cm, 15.2 cm, 30.5 cm)

### Features

- **1800®-SAM Series:** Built-in Seal-A-Matic™ (SAM) check valve. Eliminates the need for under-the-head check valves. Traps water in lateral pipes in elevation changes of up to 14 feet (4.2 m). Reduces wear on system components by minimizing water hammer during start-up
- **1800®-PRS Series:** Maintains constant outlet pressure at 30 psi (2.1 bar). PRS pressure regulator built into the stem simplifies system design. Eliminates misting and fogging caused by high pressure. Saves time and money
- **1800®-P45 Series:** Maintains constant outlet pressure at 45 psi (3.1 bar). P45 pressure regulator built into the stem simplifies system design. Eliminates misting and fogging caused by high pressure. Saves time and money
- **1800®-SAM-PRS Series:** Incorporates all 1800 Series SAM and PRS features. Meets the needs of all spray areas, regardless of changing elevation or water pressures
- **1800®-SAM-P45 Series:** Incorporates all 1800 Series SAM and P45 features. Maintains constant outlet pressure at 45 psi (3.1 bar) at varying inlet pressures. Ensures maximum spray body and nozzle performance, even with varying inlet pressures. Maintains constant pressure regardless of nozzle used

### Specifications

- 4", 6", 12" (10.2 cm, 15.2 cm, 30.5 cm)
- SAM capability: holds up to 14 feet (4.2 m) of head; 6 psi (0.4 bar)
- PRS and P45 models regulate nozzle pressure to an average 30 or 45 psi (2.1 or 3.1 bar) with inlet pressures of up to 70 psi (4.8 bar)
- Flow-by: 0 gpm at 8 psi (0.6 bar) or greater; 0.10 gpm (0.02 m³/h; 0.36 l/m) otherwise
- Installation: side or bottom inlet
- Side inlet installation not recommended in freezing climates
- Five Year Trade Warranty

### 1800®-SAM Models

- 1804-SAM: 4" pop-up height (10.2 cm)
- 1806-SAM: 6" pop-up height (15.2 cm)
- 1812-SAM: 12" pop-up height (30.5 cm)

### 1800®-PRS Models

- 1804 PRS: 4" pop-up height (10.2 cm)
- 1806 PRS: 6" pop-up height (15.2 cm)
- 1812 PRS: 12" pop-up height (30.5 cm)

### 1800®-P45 Models

- 1804 P45: 4" pop-up height (10.2 cm)
- 1806 P45: 6" pop-up height (15.2 cm)
- 1812 P45: 12" pop-up height (30.5 cm)

### 1800®-SAM-PRS Models

- 1804-SAM-PRS: 4" pop-up height (10.2 cm)
- 1806-SAM-PRS: 6" pop-up height (15.2 cm)
- 1812-SAM-PRS: 12" pop-up height (30.5 cm)

### 1800®-SAM-P45 Models

- 1804-SAM-P45: 4" pop-up height (10.2 cm)
- 1806-SAM-P45: 6" pop-up height (15.2 cm)
- 1812-SAM-P45: 12" pop-up height (30.5 cm)

### Operating Range

- Spacing: 2.5 to 24 feet (0.8 to 7.3m)\*
- Pressure: 15 to 70 psi (1.0 to 4.8 bar)



1800-SAM



1800-PRS



1800-PRS-45



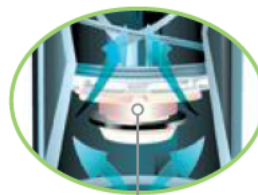
1800-SAM-PRS



1800-SAM-P45



When using 30psi and 45psi  
pressure regulating  
spray heads



Built in Seal-A-Matic check valve prevents low-head drainage, ideal for use in changing elevations



Patented pressure regulator in stem compensates for high or fluctuating water pressure to ensure maximum performance

\* 2.5 to 18 feet with standard Rain Bird Spray Head Nozzles (SQ, MPR, VAN, HE-VAN, U-Series), 8 to 24 feet with Rain Bird Rotary Nozzles (R-VAN)