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› [Hunter](#) /

› [Hunter 800SR Series MP Rotator Instruction Manual](#)

Hunter 800SR

Hunter 800SR Series MP Rotator Instruction Manual

Model: 800SR

1. PRODUCT OVERVIEW

The Hunter 800SR Series MP Rotator is an advanced sprinkler nozzle designed for efficient and uniform water distribution in small to medium-sized landscape areas. This model features a female thread for easy installation and a 360-degree adjustable arc, making it versatile for various irrigation needs. Its low application rate helps conserve water while ensuring thorough coverage.

Key benefits include double pop-top functionality, excellent distribution uniformity, and a low precipitation rate, all contributing to water savings even in confined spaces.



Figure 1: Hunter 800SR Series MP Rotator. This image displays the sprinkler head, highlighting its compact design and female threaded base for connection to a riser.

2. FEATURES

- **Coverage Area:** Adjustable from 6 feet to 12 feet radius.
- **Color-Coded:** For easy identification of the specific model and its characteristics.
- **Removable Filter Screen:** Prevents clogging from debris, ensuring consistent performance.
- **Low Precipitation Rate:** Promotes higher efficiency and reduces water runoff.
- **Wind-Resistant Multi-Stream Technology:** Delivers water uniformly even in windy conditions.
- **Adjustable Arc and Radius:** Allows precise customization of the spray pattern.
- **Female Thread:** Standard connection for easy installation.
- **360 Degree Arc:** Provides full-circle coverage.

3. SETUP AND INSTALLATION

1. **Prepare the Riser:** Ensure the sprinkler riser is clean and free of debris. The 800SR MP Rotator has a female thread and is designed to screw onto a male-threaded riser.

2. **Thread the Rotator:** Carefully screw the 800SR MP Rotator onto the riser by hand until it is snug. Avoid over-tightening, which can damage the threads.
3. **Check Operating Pressure:** The recommended operating pressure is 40 PSI for optimal performance. For coverage areas less than 8 feet, an operating pressure of 30 PSI is necessary to maintain proper spray characteristics.
4. **Initial System Flush:** Before installing all rotators, it is advisable to flush the irrigation system to remove any dirt or debris that could clog the nozzles.

Note: Always ensure the water supply is turned off before performing any installation or maintenance.

4. OPERATING INSTRUCTIONS

4.1. Adjusting Arc and Radius

The 800SR MP Rotator allows for precise adjustment of both the arc (the angle of spray) and the radius (the distance of spray). These adjustments are typically made using a specialized MP Rotator tool or a small flat-head screwdriver.

- **Arc Adjustment:** To adjust the arc, hold the top of the rotator and turn the adjustment collar. The arc is adjustable up to 360 degrees.
- **Radius Adjustment:** To adjust the radius, insert the adjustment tool into the designated slot on the top of the nozzle and turn it clockwise to decrease the radius or counter-clockwise to increase it.

Important: Make adjustments while the system is operating to observe the spray pattern and ensure accurate coverage.

4.2. Recommended Operating Pressure

Optimal performance is achieved at 40 PSI. If the coverage area required is less than 8 feet, reducing the operating pressure to 30 PSI will help maintain the integrity of the spray pattern and prevent misting.

5. MAINTENANCE

5.1. Filter Screen Cleaning

The 800SR MP Rotator includes a removable filter screen to prevent debris from clogging the nozzle. Regular cleaning of this screen is crucial for maintaining optimal performance.

1. **Turn Off Water Supply:** Shut off the water to the irrigation zone.
2. **Remove Rotator:** Unscrew the MP Rotator from the sprinkler body.
3. **Access Filter:** The filter screen is located at the base of the rotator. Gently pull it out.
4. **Clean Screen:** Rinse the filter screen under running water to remove any accumulated dirt or debris. A soft brush can be used for stubborn particles.
5. **Reinstall:** Insert the clean filter screen back into the rotator, then screw the rotator back onto the riser.

5.2. Winterization (Seasonal)

In regions subject to freezing temperatures, proper winterization of your irrigation system, including the MP Rotators, is essential to prevent damage. Consult your irrigation system's main manual for specific winterization procedures, which typically involve draining the system or using compressed air to blow out water lines.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Uneven spray or reduced radius	Clogged filter screen or nozzle orifice; insufficient water pressure.	Clean the filter screen (refer to Section 5.1); verify system pressure meets recommended 40 PSI (or 30 PSI for small areas).
Water misting or fogging	Excessive water pressure.	Install a pressure regulator or reduce system pressure to the recommended range.
Rotator not popping up	Low water pressure; debris in the sprinkler body.	Check system pressure; flush the sprinkler body by removing the rotator and briefly turning on the water.
Water leaking from base	Loose connection; damaged threads.	Ensure the rotator is securely tightened; inspect threads for damage and replace if necessary.

7. SPECIFICATIONS

- Model:** 800SR Series MP Rotator
- Thread Type:** Female
- Arc Adjustment:** 360 Degrees
- Coverage Radius:** 6 to 12 feet
- Application Rate:** 0.8 inches per hour (in/hr)
- Recommended Operating Pressure:** 40 PSI (30 PSI for < 8 ft radius)
- Product Dimensions:** 3 x 1 x 1 inches
- Item Weight:** 0.32 ounces
- Manufacturer:** Hunter

8. WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the official Hunter Industries website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.

Hunter Industries Official Website: www.hunterindustries.com