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> Rain Bird 18VAN Variable Arc Adjustable Sprinkler Nozzle Instruction Manual

## Rain Bird 18VAN

# Rain Bird 18VAN Variable Arc Adjustable Sprinkler Nozzle Instruction Manual

Model: 18VAN

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## 1. PRODUCT OVERVIEW

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The Rain Bird 18VAN Variable Arc Adjustable Sprinkler Nozzle is designed for efficient and precise irrigation of standard and irregular turf and shrub areas. This nozzle offers a radius range of 14 to 18 feet and features a variable arc adjustment from 0 to 360 degrees, allowing for customized watering patterns. Constructed with UV-resistant plastic and a stainless steel adjustment screw, it ensures durability and longevity in outdoor conditions. It is compatible with all Rain Bird spray heads and shrub adapters.



**Figure 1:** Rain Bird 18VAN Variable Arc Adjustable Sprinkler Nozzle. This image shows the nozzle with its adjustable arc mechanism and integrated screen.

## 2. SETUP AND INSTALLATION

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Proper installation ensures optimal performance and water distribution.

1. **Compatibility Check:** Ensure the 18VAN nozzle is compatible with your existing Rain Bird spray head or shrub adapter. These nozzles are designed to fit all standard Rain Bird models.
2. **Prepare the Sprinkler Body:** Before attaching the nozzle, ensure the sprinkler body is clean and free of debris. If replacing an old nozzle, remove it carefully.
3. **Attach the Nozzle:** Screw the 18VAN nozzle onto the riser of the sprinkler body. Hand-tighten until snug. Do not overtighten, as this can damage the threads.
4. **Initial Arc Adjustment:** While the water is off, you can make a preliminary arc adjustment. Hold the nozzle and rotate the top section to set the desired arc. The arc can be adjusted from 0 to 360 degrees.
5. **Check Water Pressure:** Ensure your irrigation system operates within the recommended pressure range for sprinkler nozzles. Excessive pressure can lead to misting and uneven coverage.

## 3. OPERATING INSTRUCTIONS

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Adjusting the arc and radius of your 18VAN nozzle allows for precise watering.

- **Arc Adjustment:**

To adjust the arc, turn on the water supply to the sprinkler. While the nozzle is spraying, hold the nozzle body steady and rotate the textured collar at the top of the nozzle. Rotate clockwise to decrease the arc and counter-clockwise to increase it. The arc can be set anywhere from 0 to 360 degrees.

- **Radius Adjustment:**

The spray radius (distance) is adjusted using the stainless steel screw located on the top of the nozzle. Turn the screw clockwise to decrease the radius and counter-clockwise to increase it. The nozzle is designed for a radius range of 14 to 18 feet. Adjust the screw until the desired throw distance is achieved.

- **Optimizing Water Distribution:**

For optimal water distribution, especially in areas with slopes or compacted soils, consider selecting nozzles with lower precipitation rates. In windy conditions, nozzles with a low exit trajectory are recommended to minimize drift. To ensure even watering, use nozzles with equalized precipitation rates across your system.

## 4. MAINTENANCE

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Regular maintenance helps ensure the longevity and efficient operation of your sprinkler nozzles.

- **Screen Cleaning:** The 18VAN nozzle includes an integrated screen to filter debris. Periodically remove the nozzle and clean the screen under running water to prevent clogging.
- **Debris Removal:** Inspect the nozzle opening for any lodged debris that might obstruct the spray pattern. Use a small brush or a soft tool to gently remove any blockages.
- **Winterization:** In colder climates, ensure your irrigation system, including nozzles, is properly winterized to prevent damage from freezing water.
- **Inspection:** Regularly check the nozzle for any signs of wear, cracks, or damage. Replace damaged nozzles promptly to maintain system efficiency.

## 5. TROUBLESHOOTING

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Problem	Possible Cause	Solution
<b>Uneven Water Coverage</b>	Incorrect arc or radius setting, clogged nozzle, improper water pressure, incorrect nozzle selection for the area.	Adjust arc and radius settings. Clean the nozzle screen and opening. Verify system water pressure. Ensure the nozzle type is suitable for the application.
<b>Reduced Throw Radius / Misting</b>	Excessive water pressure, partially clogged nozzle.	Reduce water pressure if too high (e.g., install a pressure-regulating stem or device). Clean the nozzle.
<b>No Water or Low Flow</b>	Completely clogged nozzle, low system water pressure, damaged nozzle.	Remove and thoroughly clean the nozzle and screen. Check overall system water pressure. Replace damaged nozzles.

Problem	Possible Cause	Solution
<b>Leaking at Nozzle Base</b>	Nozzle not tightened properly, damaged threads on nozzle or sprinkler body.	Ensure the nozzle is hand-tightened securely. Inspect threads for damage; replace if necessary.

## 6. SPECIFICATIONS

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- **Model:** 18VAN
- **Brand:** Rain Bird (as per product title, though listed as 18-VAN in specs, Rain Bird is the primary brand)
- **Arc Adjustment:** Variable, 0° to 360°
- **Radius Range:** 14 to 18 feet
- **Material:** UV-resistant plastic, Stainless Steel adjustment screw
- **Inlet Connection Type:** Threaded
- **Outlet Connection Type:** NPT
- **Thread Type:** NPT
- **Number of Pieces:** 10 (in a 10-pack)

## 7. WARRANTY AND SUPPORT

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Rain Bird products are manufactured to high-quality standards. For specific warranty information and customer support, please refer to the official Rain Bird website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.

For further assistance, visit the [Rain Bird official website](#).