

### R-VAN1724

#### Adjustable Rotary Nozzle

Rain Bird® R-VAN Adjustable Rotary Nozzles provide water efficiency and design flexibility. R-VAN Adjustable Rotary Nozzles feature rotating stream technology which uniformly delivers water at a low precipitation rate, significantly reducing runoff and erosion. Retrofitting standard spray nozzles with R-VAN Adjustable Rotary Nozzles can reduce flow by up to 60% and improve water efficiency by up to 30%. Nozzle spray pattern and distance are easily adjusted by hand with no tools required.




#### Operating Specifications




- Pressure Range: 20 to 55 psi (1.4 to 3.8 bar)
- Recommended Operating Pressure: 45 psi (3.1 bar)
- Spacing: 17' to 24' (5.2 to 7.3 m)
- Adjustments: Arc and radius should be adjusted while water is running

#### Features

- Adjust arc and radius without tools
- Color coded for easy identification of R-VAN model
- Low precipitation rate reduces run-off and erosion
- Maintains efficient performance at high operating pressures without misting or fogging
- Compatible with all models of Rain Bird spray bodies in addition to a wide variety of risers and adapters
- Matched precipitation rates across radius and arcs simplify the design process
- Installing with Rain Bird R-VAN Adjustable Rotary Nozzles, Fixed Arc Rotary Nozzles, and 5000 Series Rotor matched precipitation rate (MPR) nozzles, allows for MPR irrigation designs from 13' to 35' (4.0m 10.7m)
- Three year trade warranty



| R-VAN 1724 (Yellow)  |              |            |          |               |               |
|--|--------------|------------|----------|---------------|---------------|
| Nozzle   | Pressure psi | Radius ft. | Flow gpm | ■ Precip In/h | ▲ Precip In/h |
| <b>270° Arc</b><br> | 20           | 17         | 1.77     | 0.76          | 0.88          |
|  | 25           | 19         | 1.99     | 0.72          | 0.83          |
|  | 30           | 21         | 2.26     | 0.70          | 0.81          |
|  | 35           | 22         | 2.39     | 0.66          | 0.76          |
|  | 40           | 23         | 2.55     | 0.63          | 0.73          |
|  | 45           | 23         | 2.73     | 0.64          | 0.73          |
|  | 50           | 24         | 2.76     | 0.61          | 0.70          |
| <b>180° Arc</b><br> | 20           | 17         | 1.24     | 0.76          | 0.88          |
|  | 25           | 19         | 1.30     | 0.72          | 0.83          |
|  | 30           | 21         | 1.41     | 0.70          | 0.81          |
|  | 35           | 22         | 1.55     | 0.66          | 0.76          |
|  | 40           | 23         | 1.69     | 0.63          | 0.73          |
|  | 45           | 23         | 1.83     | 0.64          | 0.73          |
|  | 50           | 24         | 1.91     | 0.61          | 0.70          |
| <b>90° Arc</b><br>  | 20           | 17         | 0.59     | 0.76          | 0.88          |
|  | 25           | 19         | 0.67     | 0.72          | 0.83          |
|  | 30           | 21         | 0.73     | 0.70          | 0.81          |
|  | 35           | 22         | 0.78     | 0.66          | 0.76          |
|  | 40           | 23         | 0.85     | 0.63          | 0.73          |
|  | 45           | 23         | 0.91     | 0.64          | 0.73          |
|  | 50           | 24         | 0.98     | 0.61          | 0.70          |
| 55   | 24           | 1.05       | 0.61     | 0.70          |               |

| R-VAN 1724 (Yellow)   |              |          |          |               | METRIC        |
|---|--------------|----------|----------|---------------|---------------|
| Nozzle  | Pressure bar | Radius m | Flow l/m | ■ Precip mm/h | ▲ Precip mm/h |
| <b>270° Arc</b><br> | 1.4          | 5.2      | 6.70     | 19            | 22            |
|   | 1.7          | 5.8      | 7.53     | 18            | 21            |
|   | 2.1          | 6.4      | 8.56     | 18            | 21            |
|   | 2.4          | 6.7      | 9.05     | 17            | 19            |
|   | 2.8          | 7.0      | 9.65     | 16            | 18            |
|   | 3.1          | 7.0      | 10.33    | 16            | 18            |
|   | 3.4          | 7.3      | 10.45    | 15            | 18            |
| <b>180° Arc</b><br> | 1.4          | 5.2      | 4.69     | 19            | 22            |
|   | 1.7          | 5.8      | 4.92     | 18            | 21            |
|   | 2.1          | 6.4      | 5.34     | 18            | 21            |
|   | 2.4          | 6.7      | 5.87     | 17            | 19            |
|   | 2.8          | 7.0      | 6.40     | 16            | 18            |
|   | 3.1          | 7.0      | 6.93     | 16            | 18            |
|   | 3.4          | 7.3      | 7.23     | 15            | 18            |
| <b>90° Arc</b><br>  | 1.4          | 5.2      | 2.23     | 19            | 22            |
|   | 1.7          | 5.8      | 2.54     | 18            | 21            |
|   | 2.1          | 6.4      | 2.76     | 18            | 21            |
|   | 2.4          | 6.7      | 2.95     | 17            | 19            |
|   | 2.8          | 7.0      | 3.22     | 16            | 18            |
|   | 3.1          | 7.0      | 3.44     | 16            | 18            |
|   | 3.4          | 7.3      | 3.71     | 15            | 18            |
| 3.8   | 7.3          | 3.97     | 15       | 18            |               |

## Performance Data Notes

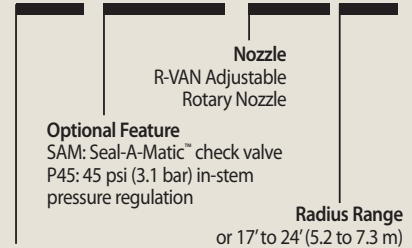
- R-VAN tested on 4 inch (10.2cm) spray bodies.
- Performance data taken in zero wind conditions.
- Radius refers to recommended spacing to achieve optimal precipitation rate and distribution uniformity with head to head spacing.
- ■ Square spacing based on 50% diameter of throw.
- ▲ Triangular spacing based on 50% diameter of throw.
- Single row applications are not recommended.
- Do not reduce the radius below 17' (5.2 m).
- Installation on Rain Bird 1800SAM-P45 spray bodies recommended in sandy environments.
- Performance data derived from tests that conform with ASAE Standards; ASAE S398.1. See page 224 of the Rain Bird Turf Catalog for complete ASAE Test Certification Statement.

## Specifications

- The R-VAN nozzle shall have a variable arc that is adjustable without a tool at specified operating pounds per square inch (bar).
- The R-VAN nozzle shall have a radius that is adjustable without a tool at specified operating pounds per square inch (bar).
- The R-VAN nozzle shall have multiple arced streams and have a matched precipitation rate of \_\_\_ in/hr (mm/h).
- The R-VAN nozzle shall have a variable arc of 45° to 270°.
- The R-VAN nozzle variable arc shall be capable of covering a \_\_\_ foot (meter) radius at \_\_\_ pounds per square inch (bar).
- The R-VAN nozzle shall have a discharge rate of \_\_\_ gallons per minute (l/m).
- The R-VAN nozzle angle of the trajectory shall vary from 4 to 34 degrees.
- The R-VAN nozzle shall be constructed of UV-resistant plastic. The protective metal cap shall be of stainless steel.
- The R-VAN nozzle shall include a removable .02 x .02 mesh screen to protect the nozzle against clogging.
- The R-VAN nozzle shall have a precipitation rate matched with Rain Bird 5000 Series MPR Rotor Nozzles.
- The R-VAN nozzle shall have a 3 year trade warranty.

## How To Specify

### 1804 - SAM-P45 - R-VAN1724



**Model**  
1804: 4" (10.2 cm) pop-up height

**Note:** Specify sprinkler bodies and nozzles separately.  
Installation on Rain Bird 1800SAM-P45 spray bodies recommended in sandy environments.

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