

### RVAN18

#### 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: 30 to 55 psi (2.1 to 3.8 bar)
- Recommended Operating Pressure: 45 psi (3.1 bar)
- Spacing: 13' to 18' (4.0 to 5.5 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



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Nozzle	Pressure psi	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
 270° Arc	30	16	1.26	0.65	0.75
	35	16	1.35	0.64	0.74
	40	17	1.42	0.63	0.73
	45	17	1.51	0.64	0.73
	50	18	1.57	0.60	0.69
	55	18	1.62	0.60	0.69
 180° Arc	30	16	0.85	0.65	0.75
	35	16	0.91	0.64	0.74
	40	17	0.98	0.63	0.73
	45	17	1.01	0.64	0.73
	50	18	1.07	0.60	0.69
	55	18	1.09	0.60	0.69
 90° Arc	30	16	0.42	0.65	0.75
	35	16	0.47	0.64	0.74
	40	17	0.50	0.63	0.73
	45	17	0.50	0.64	0.73
	50	18	0.54	0.60	0.69
	55	18	0.58	0.60	0.69

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Nozzle	Pressure bar	Radius m	Flow l/m	■ Precip mm/h	▲ Precip mm/h
 270° Arc	2.1	4.9	4.77	17	19
	2.4	4.9	5.11	16	19
	2.8	5.2	5.38	16	18
	3.1	5.2	5.72	16	18
	3.4	5.5	5.94	15	18
	3.8	5.5	6.13	15	18
 180° Arc	2.1	4.9	3.22	17	19
	2.4	4.9	3.44	16	19
	2.8	5.2	3.71	16	18
	3.1	5.2	3.82	16	18
	3.4	5.5	4.05	15	18
	3.8	5.5	4.13	15	18
 90° Arc	2.1	4.9	1.59	17	19
	2.4	4.9	1.78	16	19
	2.8	5.2	1.89	16	18
	3.1	5.2	1.89	16	18
	3.4	5.5	2.04	15	18
	3.8	5.5	2.20	15	18

## Performance Data Notes

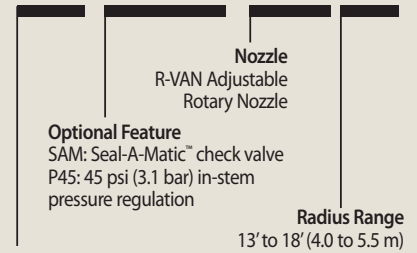
- R-VAN tested on 4 inch (10.2cm) spray bodies.
- Performance data taken in zero wind conditions.
- Radius refers to recommended spacing to achieve optimal precipitation rate and distribution uniformity with head to head spacing.
- ■ Square spacing based on 50% diameter of throw.
- ▲ Triangular spacing based on 50% diameter of throw.
- Single row applications are not recommended.
- Do not reduce the radius below 13' (4.0 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 0.012" x 0.012" 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-VAN18



**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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The Intelligent Use of Water™  
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