

## R-VAN Adjustable Rotary Nozzles

### High Efficiency, Multi-Stream

Rain Bird® R-VAN Adjustable Rotary Nozzles save more water, are easier to use, and are lower priced compared to leading rotating nozzles. R-VANs thick streams and large water droplets cut through the wind to deliver water where you want it. R-VANs are easier to use thanks to its hand-adjustable arc and radius. R-VANs are also 21% lower list priced and require half the SKUs to achieve 45° to 360° coverage vs. the leading rotating nozzle brand.

### Features

- Matched precipitation across radius, arcs, and pattern types
- Low precipitation rate reduces run-off and erosion
- Adjust arc and radius without tools
- A pull-up to flush feature clears the nozzle of dirt and debris

- Color coded and laser marked for easy identification of R-VAN model
- Maintains efficient performance at high operating pressures without misting or fogging
- Compatible with all models of Rain Bird spray bodies, risers and adapters
- Installing with Rain Bird 5000 MPR Series Rotors allows for matched precipitation from 2.4m to 10.7m
- Three year trade warranty

### Operating Range

- Pressure Range: 2.1 to 3.8 bar
- Recommended Operating Pressure: 3.1 bar
- Spacing: 2.4 to 7.3m
- Adjustments: Arc and radius should be adjusted while water is running

### Models

- **2.4 to 4.6m:**
  - R-VAN14: 45° - 270° Adjustable Arc
  - R-VAN14-360: 360° Full Circle
- **4.0 to 5.5m:**
  - R-VAN18: 45° - 270° Adjustable Arc
  - R-VAN18-360: 360° Full Circle
- **5.2 to 7.3m:**
  - R-VAN24: 45° - 270° Adjustable Arc
  - R-VAN24-360: 360° Full Circle
- **Strip Nozzles:**
  - R-VAN-LCS: 1.5 x 4.6m Left Corner Strip
  - R-VAN-RCS: 1.5 x 4.6m Right Corner Strip
  - R-VAN-SST: 1.5 x 9.1m Side Strip

2.4m to 4.6m

4.0m to 5.5m

5.2m to 7.3m

Strip Nozzles



**R-VAN14**  
45° - 270°

**R-VAN14-360**  
360°

**R-VAN18**  
45° - 270°

**R-VAN18-360**  
360°

**R-VAN24**  
45° - 270°





**R-VAN24-360**  
360°





**R-VAN-LCS**  
1.5 x 4.6m  
Left Corner Strip





**R-VAN-SST**  
1.5 x 9.1m  
Side Strip

**R-VAN-RCS**  
1.5 x 4.6m  
Right Corner Strip


## Adjustable Arc Nozzles (45° to 270°)


R-VAN14 2.4 to 4.6m					
Arc	Pressure bar	Radius m	Flow l/m	Precip. (mm/h)	
				■	▲
270° 	2.1	4.0	3.18	16	19
	2.4	4.0	3.29	17	19
	2.8	4.3	3.48	15	18
	<b>3.1</b>	<b>4.3</b>	<b>3.56</b>	<b>16</b>	<b>18</b>
	3.4	4.6	4.20	16	19
210° 	2.1	4.0	2.46	16	19
	2.4	4.0	2.57	17	19
	2.8	4.3	2.73	15	18
	<b>3.1</b>	<b>4.3</b>	<b>2.76</b>	<b>16</b>	<b>18</b>
	3.4	4.6	3.26	16	19
180° 	2.1	4.0	2.12	16	19
	2.4	4.0	2.20	17	19
	2.8	4.3	2.31	15	18
	<b>3.1</b>	<b>4.3</b>	<b>2.38</b>	<b>16</b>	<b>18</b>
	3.4	4.6	2.80	16	19
90° 	2.1	4.0	1.06	16	19
	2.4	4.0	1.10	17	19
	2.8	4.3	1.17	16	18
	<b>3.1</b>	<b>4.3</b>	<b>1.21</b>	<b>15</b>	<b>18</b>
	3.4	4.6	1.40	16	19
3.8	4.6	1.48	17	20	


R-VAN18 4.0 to 5.5m					
Arc	Pressure bar	Radius m	Flow l/m	Precip. (mm/h)	
				■	▲
270° 	2.1	4.9	4.77	17	19
	2.4	4.9	5.11	16	19
	2.8	5.2	5.38	16	19
	<b>3.1</b>	<b>5.2</b>	<b>5.72</b>	<b>16</b>	<b>19</b>
	3.4	5.5	5.94	15	18
210° 	2.1	4.9	3.71	16	19
	2.4	4.9	3.97	17	20
	2.8	5.2	4.16	16	19
	<b>3.1</b>	<b>5.2</b>	<b>4.43</b>	<b>16</b>	<b>20</b>
	3.4	5.5	4.62	16	18
180° 	2.1	4.9	3.22	17	19
	2.4	4.9	3.44	16	19
	2.8	5.2	3.71	16	19
	<b>3.1</b>	<b>5.2</b>	<b>3.82</b>	<b>16</b>	<b>19</b>
	3.4	5.5	4.05	15	18
90° 	2.1	4.9	1.59	17	19
	2.4	4.9	1.78	16	19
	2.8	5.2	1.89	16	19
	<b>3.1</b>	<b>5.2</b>	<b>1.89</b>	<b>16</b>	<b>19</b>
	3.4	5.5	2.04	15	18
3.8	5.5	2.20	15	18	

R-VAN24 5.2 to 7.3m					
Arc	Pressure bar	Radius m	Flow l/m	Precip. (mm/h)	
				■	▲
270° 	2.1	5.8	6.81	16	19
	2.4	6.1	7.38	16	18
	2.8	6.7	8.74	15	18
	<b>3.1</b>	<b>7.0</b>	<b>9.54</b>	<b>15</b>	<b>18</b>
	3.4	7.3	10.67	16	19
210° 	2.1	5.8	5.30	16	19
	2.4	6.1	5.75	16	18
	2.8	6.7	6.81	15	18
	<b>3.1</b>	<b>7.0</b>	<b>7.42</b>	<b>15</b>	<b>18</b>
	3.4	7.3	8.29	16	19
180° 	2.1	5.8	4.54	16	19
	2.4	6.1	4.92	16	18
	2.8	6.7	5.83	15	18
	<b>3.1</b>	<b>7.0</b>	<b>6.36</b>	<b>15</b>	<b>18</b>
	3.4	7.3	7.12	16	19
90° 	2.1	5.8	2.27	16	19
	2.4	6.1	2.46	16	18
	2.8	6.7	2.91	15	18
	<b>3.1</b>	<b>7.0</b>	<b>3.18</b>	<b>15</b>	<b>18</b>
	3.4	7.3	3.56	16	19
3.8	7.3	3.63	16	19	


## Full Circle Nozzles (360°)


R-VAN14-360 2.4 to 4.6m					
Arc	Pressure bar	Radius m	Flow l/m	Precip. (mm/h)	
				■	▲
360° 	2.1	4.0	4.16	16	18
	2.4	4.0	4.24	16	19
	2.8	4.3	4.62	15	18
	<b>3.1</b>	<b>4.3</b>	<b>4.81</b>	<b>16</b>	<b>18</b>
	3.4	4.6	5.34	15	18
3.8	4.6	5.49	16	18	


R-VAN18-360 4.0 to 5.5m					
Arc	Pressure bar	Radius m	Flow l/m	Precip. (mm/h)	
				■	▲
360° 	2.1	4.9	6.25	16	18
	2.4	4.9	6.32	16	19
	2.8	5.2	6.81	15	18
	<b>3.1</b>	<b>5.2</b>	<b>7.00</b>	<b>16</b>	<b>18</b>
	3.4	5.5	7.76	15	18
3.8	5.5	7.99	16	18	

R-VAN24-360 5.2 to 7.3m					
Arc	Pressure bar	Radius m	Flow l/m	Precip. (mm/h)	
				■	▲
360° 	2.1	5.8	8.90	16	18
	2.4	6.1	9.54	15	18
	2.8	6.7	11.85	16	18
	<b>3.1</b>	<b>7.0</b>	<b>13.17</b>	<b>16</b>	<b>19</b>
	3.4	7.3	13.67	15	18
3.8	7.3	14.16	16	18	

## Strip Nozzles (Left Corner, Side, Right Corner)

R-VAN-LCS 1.5 x 4.6m					
Arc	Pressure bar	Radius m	Flow l/m	Precip. (mm/h)	
				-	▲
Left Corner Strip 	2.1	1.2x4.3	0.68	16	16
	2.4	1.5x4.6	0.83	14	14
	2.8	1.5x4.6	0.87	15	15
	<b>3.1</b>	<b>1.5x4.6</b>	<b>0.91</b>	<b>16</b>	<b>16</b>
	3.4	1.5x4.6	0.95	16	16
3.8	1.8x4.9	1.06	14	14	

R-VAN-SST 1.5 x 9.1m					
Arc	Pressure bar	Radius m	Flow l/m	Precip. (mm/h)	
				-	▲
Side Strip 	2.1	1.2x8.5	1.36	16	16
	2.4	1.5x9.1	1.67	14	14
	2.8	1.5x9.1	1.74	15	15
	<b>3.1</b>	<b>1.5x9.1</b>	<b>1.82</b>	<b>16</b>	<b>16</b>
	3.4	1.5x9.1	1.89	16	16
3.8	1.8x9.8	2.12	14	14	

R-VAN-RCS 1.5 x 4.6m					
Arc	Pressure bar	Radius m	Flow l/m	Precip. (mm/h)	
				-	▲
Right Corner Strip 	2.1	1.2x4.3	0.68	16	16
	2.4	1.5x4.6	0.83	14	14
	2.8	1.5x4.6	0.87	15	15
	<b>3.1</b>	<b>1.5x4.6</b>	<b>0.91</b>	<b>16</b>	<b>16</b>
	3.4	1.5x4.6	0.95	16	16
3.8	1.8x4.9	1.06	14	14	

Note: All R-VAN nozzles tested on 10.2 cm pop-ups

Performance data taken in zero wind conditions

Note: Radius reduction over 25% of the normal throw of the nozzle is not recommended

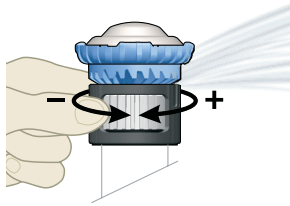
- Square spacing based on 50% diameter of throw for 2.4m, 4.0m and 5.2m
- ▲ Triangular spacing based on 50% diameter of throw for 2.4m, 4.0m and 5.2m
- Straight-line spacing based on 50% overlap of throw for LCS, SST, and RCS
- ▲ Triangular spacing based on 50% overlap of throw for LCS, SST, and RCS

### Adjustable Arc Nozzles

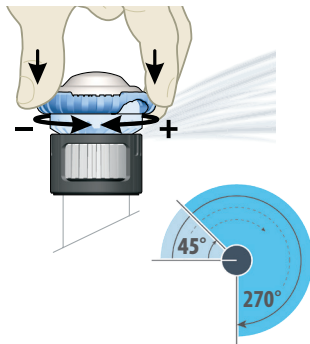
R-VAN14, R-VAN18, R-VAN24



RADIUS ADJUSTMENT



ARC ADJUSTMENT

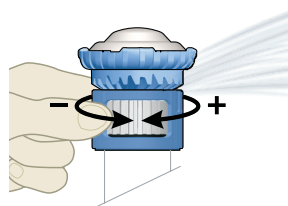


### Full Circle Nozzles

R-VAN14-360, R-VAN18-360, R-VAN24-360



RADIUS ADJUSTMENT

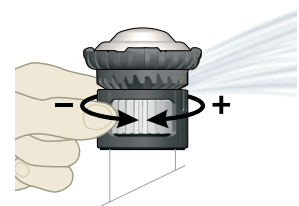


### Strip Nozzles

R-VAN-LCS, R-VAN-RCS, R-VAN-SST



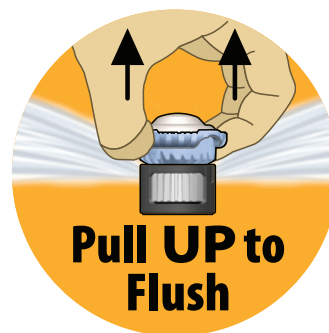
SIZE ADJUSTMENT



All Models



No Tools Required



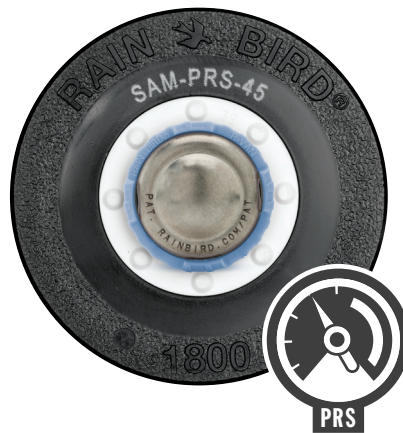
Recommended immediately after installation

## 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/h (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°.
- 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 mesh screen to protect the nozzle against clogging. Nozzles include a green screen (58 mesh / 305 Microns), or a white screen (35 mesh / 508 Microns) depending on the model.
- 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.

## 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.
- Installation on Rain Bird 1800SAM-P45 spray bodies recommended in sandy environments.
- Performance data derived from tests that conform with ASAE and ASABE Standards; ASAE S398.1; ASABE/ICC 802-2014.



## How To Specify

### R-VAN 18-360

#### Radius Range

2.4 to 4.6m

R-VAN14: 45° - 270°

R-VAN14-360: 360°

4.0 to 5.5m

R-VAN18: 45° - 270°

R-VAN18-360: 360°

5.2 to 7.3m

R-VAN24: 45° - 270°

R-VAN24-360: 360°

#### Strip Nozzles

R-VAN-LCS: 1.5 x 4.6m

R-VAN-RCS: 1.5 x 4.6m

R-VAN-SST: 1.5 x 9.1m

#### Model

R-VAN Adjustable Rotary Nozzle

**For Optimum Performance,  
Use Rain Bird 1800 or RD1800  
Spray Bodies with 45 PSI  
(3.1bar) Pressure Regulation**

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