

## 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 23% 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 8' to 35' (2.4m to 10.7m)
- Three year trade warranty

### Operating Range

- Pressure Range: 30 to 55 psi (2.1 to 3.8 bar)
- Recommended Operating Pressure: 45 psi (3.1 bar)
- Spacing: 8' to 24' (2.4 to 7.3m)
- Adjustments: Arc and radius should be adjusted while water is running

### Models

- **8' - 14' (2.4 to 4.6m):**
  - R-VAN14: 45° - 270° Adjustable Arc
  - R-VAN14-360: 360° Full Circle
- **13' - 18' (4.0 to 5.5m):**
  - R-VAN18: 45° - 270° Adjustable Arc
  - R-VAN18-360: 360° Full Circle
- **17' - 24' (5.2 to 7.3m):**
  - R-VAN24: 45° - 270° Adjustable Arc
  - R-VAN24-360: 360° Full Circle
- **Strip Nozzles:**
  - R-VAN-LCS: 5' x 15' (1.5 x 4.6m) Left Corner Strip
  - R-VAN-RCS: 5' x 15' (1.5 x 4.6m) Right Corner Strip
  - R-VAN-SST: 5' x 30' (1.5 x 9.1m) Side Strip

**8' to 14'**

(2.4m to 4.6m)

**13' to 18'**

(4.0m to 5.5m)

**17' to 24'**

(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**  
5' x 15'  
Left Corner Strip





**R-VAN-SST**  
5' x 30'  
Side Strip

**R-VAN-RCS**  
5' x 15'  
Right Corner Strip


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


R-VAN14 8' - 14' (2.4 to 4.6m)					
Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in/h)	
				■	▲
270° 	30	13	0.84	0.64	0.76
	35	13	0.87	0.66	0.74
	40	14	0.92	0.60	0.71
	<b>45</b>	<b>14</b>	<b>0.94</b>	<b>0.62</b>	<b>0.70</b>
	50	15	1.11	0.63	0.73
210° 	30	13	0.65	0.64	0.76
	35	13	0.68	0.66	0.74
	40	14	0.72	0.60	0.71
	<b>45</b>	<b>14</b>	<b>0.73</b>	<b>0.62</b>	<b>0.70</b>
	50	15	0.86	0.63	0.73
180° 	30	13	0.56	0.64	0.76
	35	13	0.58	0.66	0.74
	40	14	0.61	0.60	0.71
	<b>45</b>	<b>14</b>	<b>0.63</b>	<b>0.62</b>	<b>0.70</b>
	50	15	0.74	0.63	0.73
90° 	30	13	0.28	0.64	0.76
	35	13	0.29	0.66	0.74
	40	14	0.31	0.62	0.71
	<b>45</b>	<b>14</b>	<b>0.32</b>	<b>0.61</b>	<b>0.70</b>
	50	15	0.37	0.63	0.73
55	15	0.39	0.67	0.77	


R-VAN18 13' - 18' (4.0 to 5.5m)					
Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in/h)	
				■	▲
270° 	30	16	1.26	0.65	0.75
	35	16	1.35	0.64	0.74
	40	17	1.42	0.63	0.73
	<b>45</b>	<b>17</b>	<b>1.51</b>	<b>0.64</b>	<b>0.73</b>
	50	18	1.57	0.60	0.69
210° 	30	16	0.98	0.63	0.73
	35	16	1.05	0.68	0.78
	40	17	1.10	0.63	0.73
	<b>45</b>	<b>17</b>	<b>1.17</b>	<b>0.64</b>	<b>0.77</b>
	50	18	1.22	0.62	0.72
180° 	30	16	0.85	0.65	0.75
	35	16	0.91	0.64	0.74
	40	17	0.98	0.63	0.73
	<b>45</b>	<b>17</b>	<b>1.01</b>	<b>0.64</b>	<b>0.73</b>
	50	18	1.07	0.60	0.69
90° 	30	16	0.42	0.65	0.75
	35	16	0.47	0.64	0.74
	40	17	0.50	0.63	0.73
	<b>45</b>	<b>17</b>	<b>0.50</b>	<b>0.64</b>	<b>0.73</b>
	50	18	0.54	0.60	0.69
55	18	0.58	0.60	0.69	

R-VAN24 17' - 24' (5.2 to 7.3m)					
Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in/h)	
				■	▲
270° 	30	19	1.80	0.64	0.74
	35	20	1.95	0.63	0.72
	40	22	2.31	0.61	0.71
	<b>45</b>	<b>23</b>	<b>2.52</b>	<b>0.61</b>	<b>0.71</b>
	50	24	2.82	0.63	0.73
210° 	30	19	1.40	0.64	0.74
	35	20	1.52	0.63	0.72
	40	22	1.80	0.61	0.71
	<b>45</b>	<b>23</b>	<b>1.96</b>	<b>0.61</b>	<b>0.71</b>
	50	24	2.19	0.63	0.73
180° 	30	19	1.20	0.64	0.74
	35	20	1.30	0.63	0.72
	40	22	1.54	0.61	0.71
	<b>45</b>	<b>23</b>	<b>1.68</b>	<b>0.61</b>	<b>0.71</b>
	50	24	1.88	0.63	0.73
90° 	30	19	0.60	0.64	0.74
	35	20	0.65	0.63	0.72
	40	22	0.77	0.61	0.71
	<b>45</b>	<b>23</b>	<b>0.84</b>	<b>0.61</b>	<b>0.71</b>
	50	24	0.94	0.63	0.73
55	24	0.96	0.64	0.74	


## Full Circle Nozzles (360°)


R-VAN14-360 8' - 14' (2.4 to 4.6m)					
Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in/h)	
				■	▲
360° 	30	13	1.10	0.63	0.72
	35	13	1.12	0.64	0.74
	40	14	1.22	0.60	0.69
	<b>45</b>	<b>14</b>	<b>1.27</b>	<b>0.62</b>	<b>0.72</b>
	50	15	1.41	0.60	0.70
	55	15	1.45	0.62	0.72


R-VAN18-360 13' - 18' (4.0 to 5.5m)					
Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in/h)	
				■	▲
360° 	30	16	1.65	0.62	0.72
	35	16	1.67	0.63	0.73
	40	17	1.80	0.60	0.69
	<b>45</b>	<b>17</b>	<b>1.85</b>	<b>0.62</b>	<b>0.71</b>
	50	18	2.05	0.61	0.70
	55	18	2.11	0.63	0.72

R-VAN24-360 17' - 24' (5.2 to 7.3m)					
Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in/h)	
				■	▲
360° 	30	19	2.35	0.63	0.72
	35	20	2.52	0.61	0.70
	40	22	3.13	0.62	0.72
	<b>45</b>	<b>23</b>	<b>3.48</b>	<b>0.63</b>	<b>0.73</b>
	50	24	3.61	0.60	0.70
	55	24	3.74	0.62	0.72

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

R-VAN-LCS 5' x 15' (1.5 x 4.6m)					
Arc	Pressure psi	Size ft.	Flow gpm	Precip. (in/h)	
				-	▲
Left Corner Strip 	30	4'x14'	0.18	0.62	0.62
	35	5'x15'	0.22	0.56	0.56
	40	5'x15'	0.23	0.59	0.59
	<b>45</b>	<b>5'x15'</b>	<b>0.24</b>	<b>0.62</b>	<b>0.62</b>
	50	5'x15'	0.25	0.64	0.64
	55	6'x16'	0.28	0.56	0.56

R-VAN-SST 5' x 30' (1.5 x 9.1m)					
Arc	Pressure psi	Size ft.	Flow gpm	Precip. (in/h)	
				-	▲
Side Strip 	30	4'x28'	0.36	0.62	0.62
	35	5'x30'	0.44	0.56	0.56
	40	5'x30'	0.46	0.59	0.59
	<b>45</b>	<b>5'x30'</b>	<b>0.48</b>	<b>0.62</b>	<b>0.62</b>
	50	5'x30'	0.50	0.64	0.64
	55	6'x32'	0.56	0.56	0.56

R-VAN-RCS 5' x 15' (1.5 x 4.6m)					
Arc	Pressure psi	Size ft.	Flow gpm	Precip. (in/h)	
				-	▲
Right Corner Strip 	30	4'x14'	0.18	0.62	0.62
	35	5'x15'	0.22	0.56	0.56
	40	5'x15'	0.23	0.59	0.59
	<b>45</b>	<b>5'x15'</b>	<b>0.24</b>	<b>0.62</b>	<b>0.62</b>
	50	5'x15'	0.25	0.64	0.64
	55	6'x16'	0.28	0.56	0.56

**Note:** All R-VAN nozzles tested on 4" (10.2 cm) pop-ups  
Performance data taken in zero wind conditions

R-VAN24 and R-VAN24-360: Do not reduce the radius below 17'  
R-VAN18 and R-VAN18-360: Do not reduce the radius below 13'  
R-VAN14 and R-VAN14-360: Do not reduce the radius below 8'

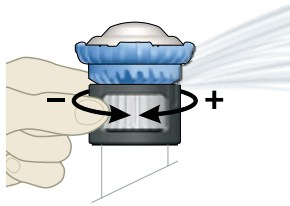
- Square spacing based on 50% diameter of throw for 14', 18', and 24'
- ▲ Triangular spacing based on 50% diameter of throw for 14', 18' and 24'
- Straight-line spacing based on 50% overlap of throw for LCS, SST, and RCS
- ▲ Triangular spacing based on 50% overlap of throw for LCS, SST, and RCS

### Adjustable Arc Nozzles

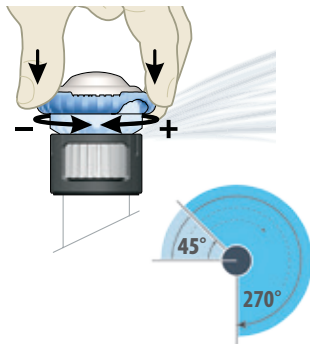
R-VAN14, R-VAN18, R-VAN24



RADIUS ADJUSTMENT



ARC ADJUSTMENT

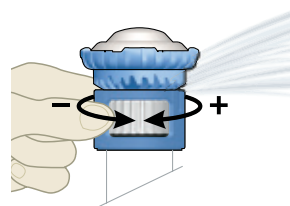


### Full Circle Nozzles

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



RADIUS ADJUSTMENT

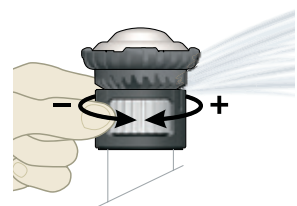


### Strip Nozzles

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



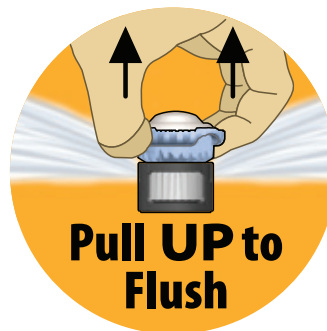
SIZE ADJUSTMENT



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

8' - 14' (2.4 to 4.6m)

R-VAN14: 45° - 270°

R-VAN14-360: 360°

13' - 18' (4.0 to 5.5m)

R-VAN18: 45° - 270°

R-VAN18-360: 360°

17' - 24' (5.2 to 7.3m)

R-VAN24: 45° - 270°

R-VAN24-360: 360°

#### Strip Nozzles

R-VAN-LCS: 5' x 15' (1.5 x 4.6m)

R-VAN-RCS: 5' x 15' (1.5 x 4.6m)

R-VAN-SST: 5' x 30' (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**

### Rain Bird Corporation

6991 E. Southpoint Road  
Tucson, AZ 85756  
Phone: (520) 741-6100  
Fax: (520) 741-6522

### Rain Bird Technical Services

(800) RAINBIRD (1-800-724-6247)  
(U.S. and Canada)

### Rain Bird Corporation

970 West Sierra Madre Avenue  
Azusa, CA 91702  
Phone: (626) 812-3400  
Fax: (626) 812-3411

[www.rainbird.com](http://www.rainbird.com)

### Rain Bird International, Inc.

1000 West Sierra Madre Ave.  
Azusa, CA 91702  
Phone: (626) 963-9311  
Fax: (626) 852-7343