

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



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)	
				■	▲
	30	13	0.84	0.64	0.76
	35	13	0.87	0.66	0.74
	40	14	0.92	0.60	0.71
	45	14	0.94	0.62	0.70
	50	15	1.11	0.63	0.73
	30	13	0.65	0.64	0.76
	35	13	0.68	0.66	0.74
	40	14	0.72	0.60	0.71
	45	14	0.73	0.62	0.70
	50	15	0.86	0.63	0.73
	30	13	0.56	0.64	0.76
	35	13	0.58	0.66	0.74
	40	14	0.61	0.60	0.71
	45	14	0.63	0.62	0.70
	50	15	0.74	0.63	0.73
	30	13	0.28	0.64	0.76
	35	13	0.29	0.66	0.74
	40	14	0.31	0.62	0.71
	45	14	0.32	0.61	0.70
	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)	
				■	▲
	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
	30	16	0.98	0.63	0.73
	35	16	1.05	0.68	0.78
	40	17	1.10	0.63	0.73
	45	17	1.17	0.64	0.77
	50	18	1.22	0.62	0.72
	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
	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

R-VAN24 17' - 24' (5.2 to 7.3m)					
Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in/h)	
				■	▲
	30	19	1.80	0.64	0.74
	35	20	1.95	0.63	0.72
	40	22	2.31	0.61	0.71
	45	23	2.52	0.61	0.71
	50	24	2.82	0.63	0.73
	30	19	1.40	0.64	0.74
	35	20	1.52	0.63	0.72
	40	22	1.80	0.61	0.71
	45	23	1.96	0.61	0.71
	50	24	2.19	0.63	0.73
	30	19	1.20	0.64	0.74
	35	20	1.30	0.63	0.72
	40	22	1.54	0.61	0.71
	45	23	1.68	0.61	0.71
	50	24	1.88	0.63	0.73
	30	19	0.60	0.64	0.74
	35	20	0.65	0.63	0.72
	40	22	0.77	0.61	0.71
	45	23	0.84	0.61	0.71
	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)	
				■	▲
	30	13	1.10	0.63	0.72
	35	13	1.12	0.64	0.74
	40	14	1.22	0.60	0.69
	45	14	1.27	0.62	0.72
	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)	
				■	▲
	30	16	1.65	0.62	0.72
	35	16	1.67	0.63	0.73
	40	17	1.80	0.60	0.69
	45	17	1.85	0.62	0.71
	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)	
				■	▲
	30	19	2.35	0.63	0.72
	35	20	2.52	0.61	0.70
	40	22	3.13	0.62	0.72
	45	23	3.48	0.63	0.73
	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)	
				—	▲
	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
	45	5'x15'	0.24	0.62	0.62
	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)	
				—	▲
	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
	45	5'x30'	0.48	0.62	0.62
	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)	
				—	▲
	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
	45	5'x15'	0.24	0.62	0.62
	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'

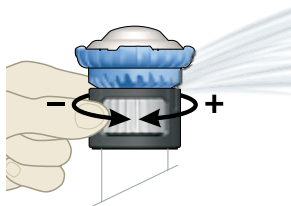
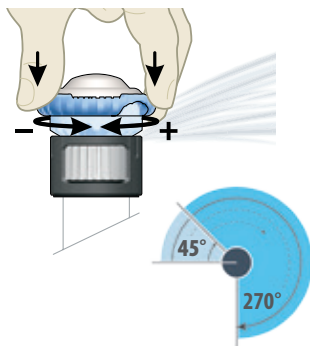
▲ Triangular spacing based on 50% diameter of throw for 14', 18' and 24'

— Straight-line spacing based on 50% overlap of throw for LCS, SST, and RCS

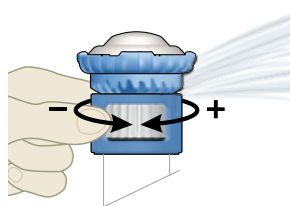
▲ Triangular spacing based on 50% overlap of throw for LCS, SST, and RCS

Adjustable Arc Nozzles

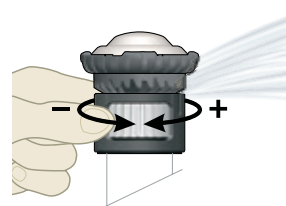
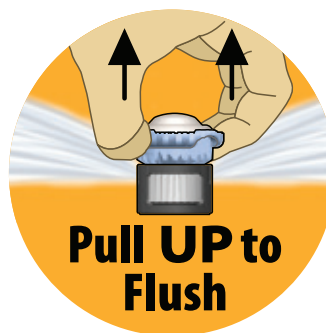
R-VAN14, R-VAN18, R-VAN24

**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**

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