

R-VAN Adjustable Rotary Nozzles

High Efficiency, Multi-Stream

Rain Bird® R-VAN Adjustable Rotary Nozzles save more water, are easier to use, 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.

Features

- Matched precipitation across radius, arcs, and pattern types
- Low precipitation rate reduces run-off and erosions
- 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

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




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
	3.1	4.3	3.56	16	18
	3.4	4.6	4.20	16	19
3.8	4.6	4.43	17	20	
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
	3.1	4.3	2.76	16	18
	3.4	4.6	3.26	16	19
3.8	4.6	3.44	17	20	
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
	3.1	4.3	2.38	16	18
	3.4	4.6	2.80	16	19
3.8	4.6	2.95	17	20	
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
	3.1	4.3	1.21	15	18
	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
	3.1	5.2	5.72	16	19
	3.4	5.5	5.94	15	18
3.8	5.5	6.13	0	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
	3.1	5.2	4.43	16	20
	3.4	5.5	4.62	16	18
3.8	5.5	4.77	16	19	
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
	3.1	5.2	3.82	16	19
	3.4	5.5	4.05	15	18
3.8	5.5	4.13	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
	3.1	5.2	1.89	16	19
	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
	3.1	7.0	9.54	15	18
	3.4	7.3	10.67	16	19
3.8	7.3	10.90	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
	3.1	7.0	7.42	15	18
	3.4	7.3	8.29	16	19
3.8	7.3	8.48	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
	3.1	7.0	6.36	15	18
	3.4	7.3	7.12	16	19
3.8	7.3	7.27	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
	3.1	7.0	3.18	15	18
	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
	3.1	4.3	4.81	16	18
	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
	3.1	5.2	7.00	16	18
	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
	3.1	7.0	13.17	16	19
	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
	3.1	1.5x4.6	0.91	16	16
	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
	3.1	1.5x9.1	1.82	16	16
	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
	3.1	1.5x4.6	0.91	16	16
	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

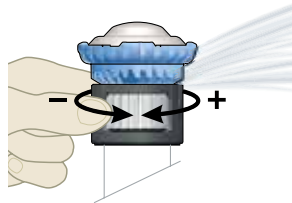
- Square spacing based on 50% diameter of throw for 2.4m, 4.0m and 5.2m
- ▲ Triangular spacing based on 50% diameter of throw for 2.4m, 4.0m and 5.2m
- Straight-line spacing based on 50% overlap of throw for LCS, SST, and RCS
- ▲ Triangular spacing based on 50% overlap of throw for LCS, SST, and RCS

Adjustable Arc Nozzles

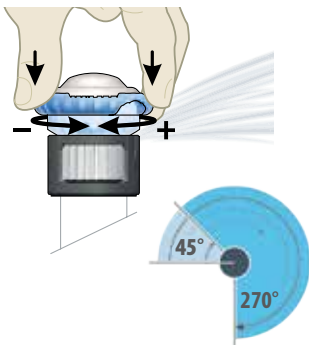
R-VAN14, R-VAN18, R-VAN24



RADIUS ADJUSTMENT



ARC ADJUSTMENT

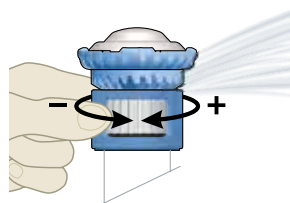


Full Circle Nozzles

R-VAN14-360, R-VAN18-360, RVAN24-360



RADIUS ADJUSTMENT

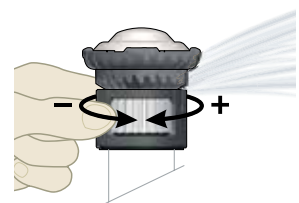


Adjustable Arc Nozzles

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



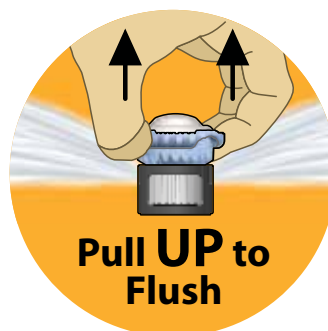
SIZE ADJUSTMENT



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 pressure
- The R-VAN nozzle shall have a radius that is adjustable without a tool at specified operating pressure.
- The R-VAN nozzle shall have multiple arced streams and have a matched precipitation rate of (mm/h).
- The R-VAN nozzle shall have a variable arc of 45° to 270°.
- 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 (305 Microns), or a white screen (508 Microns) depending on the model.
- The R-VAN nozzle shall have a precipitation rate matched with Rain Bird 5000 Series MPR Rotor Nozzles.

Performance Data Notes

- R-VAN tested on 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 3.1bar
Pressure Regulation**

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