

### VAN Series Nozzles

#### Variable Arc Nozzles

- Easy arc adjustment from 0° – 360° for 10-, 12-, 15- and 18-VAN; 0°– 330° for 4-, 6- and 8-VAN.
- Simple twist of the center collar increases or decreases arc setting.
- 12-, 15- and 18-VAN have matched precipitation rates with Rain Bird® MPR nozzles.

#### Features

- Captured screw slot prevents screwdriver strippage.
- No special tools required.
- Stainless steel adjustment screw to adjust flow and radius.
- Tactile left edge indicator.
- Ideal for watering odd-shaped areas.
- Shipped with blue filter screen (0.02" x 0.02") to maintain precise radius adjustment and prevent clogging.

#### Operating Range

- Radius\*:
  - 4-VAN: 3 to 4 feet
  - 6-VAN: 4 to 6 feet
  - 8-VAN: 6 to 8 feet
  - 10-VAN: 8 to 10 feet
  - 12-VAN: 10 to 12 feet
  - 15-VAN: 12 to 15 feet
  - 18-VAN: 14 to 18 feet
- Pressure: 15 to 30 psi
- Optimum pressure: 30 psi\*\*

#### Models

- 4-VAN
- 6-VAN
- 8-VAN
- 10-VAN
- 12-VAN
- 15-VAN
- 18-VAN

\*These ranges are based on proper pressure at nozzle.

\*\*Rain Bird recommends using 1800® PRS spray bodies to maintain optimum nozzle performance in higher-pressure situations.



#### 4 Series VAN

0° Trajectory

Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	■ Precip (in/h)	▲ Precip (in/h)
330° Arc	15	3	0.62	7.23	8.35
	20	3	0.70	8.17	9.43
	25	4	0.80	5.25	6.06
	30	4	0.88	5.78	6.67
270° Arc	15	3	0.52	7.42	8.57
	20	3	0.58	8.27	9.55
	25	4	0.66	5.29	6.11
	30	4	0.73	5.86	6.77
180° Arc	15	3	0.32	6.84	7.90
	20	3	0.37	7.91	9.13
	25	4	0.41	4.93	5.69
	30	4	0.45	5.41	6.25
90° Arc	15	3	0.21	8.98	10.37
	20	3	0.24	10.27	11.86
	25	4	0.26	6.26	7.23
	30	4	0.29	6.98	8.06

Note: Turning the radius reduction screw may be required to achieve catalog radius and flow when the arc is set at less than maximum arc. ■ Square spacing based on 50% diameter of throw. ▲ Triangular spacing based on 50% diameter of throw. Performance data taken in zero wind conditions.

#### HOW TO SPECIFY

### 1804 – 8-VAN

#### NOZZLE SERIES/PATTERN

8 series VAN nozzle

#### MODEL

4" pop-up height

▼ Click the icons below for more information.





Country of Origin







USA

Design & Technical Resources





### 6 Series VAN 0° Trajectory

Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	■ Precip (in/h)	▲ Precip (in/h)
	15	4	0.85	5.58	6.44
	20	5	0.96	4.03	4.65
	25	5	1.09	4.58	5.29
	30	6	1.20	3.50	4.04
	15	4	0.79	6.34	7.32
	20	5	0.88	4.52	5.22
	25	5	1.00	5.13	5.92
	30	6	1.10	3.92	4.53
	15	4	0.42	5.05	5.83
	20	5	0.49	3.77	4.35
	25	5	0.55	4.24	4.90
	30	6	0.60	3.21	3.71
	15	4	0.26	6.26	7.23
	20	5	0.30	4.62	5.33
	25	5	0.34	5.24	6.05
	30	6	0.37	3.96	4.57





### 8 Series VAN 5° Trajectory

Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	■ Precip (in/h)	▲ Precip (in/h)
	15	6	1.21	3.53	4.07
	20	7	1.36	2.91	3.36
	25	7	1.55	3.32	3.83
	30	8	1.70	2.79	3.22
	15	6	1.11	3.95	4.55
	20	7	1.24	3.24	3.74
	25	7	1.41	3.69	4.25
	30	8	1.55	3.10	3.58
	15	6	0.84	4.49	5.18
	20	7	0.97	3.81	4.40
	25	7	1.09	4.28	4.94
	30	8	1.19	3.58	4.13
	15	6	0.51	5.46	6.29
	20	7	0.59	4.64	5.35
	25	7	0.66	5.19	5.98
	30	8	0.72	4.33	5.00





### 10 Series VAN 10° Trajectory

Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	■ Precip (in/h)	▲ Precip (in/h)
	15	7	1.93	3.80	4.39
	20	8	2.32	3.50	4.04
	25	9	2.52	3.00	3.46
	30	10	2.60	2.50	2.89
	15	7	1.45	3.80	4.39
	20	8	1.75	3.50	4.04
	25	9	1.89	3.00	3.46
	30	10	2.10	2.70	3.12
	15	7	0.97	3.80	4.39
	20	8	1.20	3.50	4.04
	25	9	1.26	3.00	3.46
	30	10	1.45	2.80	3.23
	15	7	0.48	3.80	4.39
	20	8	0.58	3.50	4.04
	25	9	0.63	3.00	3.46
	30	10	0.75	2.90	3.35





### 12 Series VAN 10° Trajectory

Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	■ Precip (in/h)	▲ Precip (in/h)
	15	9	1.56	1.86	2.14
	20	10	1.86	1.79	2.06
	25	11	2.12	1.68	1.95
	30	12	2.36	1.58	1.82
	15	9	1.17	1.86	2.14
	20	10	1.39	1.79	2.06
	25	11	1.59	1.68	1.94
	30	12	1.77	1.58	1.82
	15	9	0.78	1.86	2.14
	20	10	0.93	1.79	2.06
	25	11	1.06	1.68	1.95
	30	12	1.18	1.58	1.82
	15	9	0.39	1.86	2.14
	20	10	0.46	1.79	2.06
	25	11	0.53	1.68	1.95
	30	12	0.59	1.58	1.82

### 15 Series VAN 10° Trajectory

Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	■ Precip (in/h)	▲ Precip (in/h)
	15	11	2.60	2.07	2.39
	20	12	3.00	2.01	2.32
	25	14	3.30	1.62	1.87
	30	15	3.70	1.58	1.83
	15	11	1.95	2.07	2.39
	20	12	2.25	2.01	2.32
	25	14	2.48	1.62	1.87
	30	15	2.78	1.58	1.83
	15	11	1.30	2.07	2.39
	20	12	1.50	2.01	2.32
	25	14	1.65	1.62	1.87
	30	15	1.85	1.58	1.83
	15	11	0.65	2.07	2.39
	20	12	0.75	2.01	2.32
	25	14	0.82	1.62	1.87
	30	15	0.92	1.58	1.83

### 18 Series VAN 10° Trajectory

Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	■ Precip (in/h)	▲ Precip (in/h)
	15	14	4.21	2.07	2.39
	20	15	4.70	2.01	2.32
	25	17	4.86	1.62	1.87
	30	18	5.32	1.58	1.83
	15	14	3.16	2.07	2.39
	20	15	3.52	2.01	2.32
	25	17	3.65	1.62	1.87
	30	18	3.99	1.58	1.83
	15	14	2.11	2.07	2.39
	20	15	2.35	2.01	2.32
	25	17	2.43	1.62	1.87
	30	18	2.66	1.58	1.83
	15	14	1.05	2.07	2.39
	20	15	1.17	2.01	2.32
	25	17	1.22	1.62	1.87
	30	18	1.33	1.58	1.83

Note: Turning the radius reduction screw may be required to achieve catalog radius and flow when the arc is set at less than maximum arc. ■ Square spacing based on 50% diameter of throw. ▲ Triangular spacing based on 50% diameter of throw. Performance data taken in zero wind conditions.

Click the icon for  
more information.

## Plastic MPR Nozzles

### Matched Precipitation Rate Nozzles

- Matched precipitation rate across sets and across patterns in 5 series, 8 series, 10 series, 12 series and 15 series for even water distribution and design flexibility.
- 5 series nozzles meet small-area shrub or turf requirements.
- 8 series nozzles now have a lower water flow, which allows more spray heads per zone.

#### Features

- 1800® series white filter (0.035" x 0.035") screens (shipped with nozzles) maintain precise radius adjustment and prevent clogging.
  - 5 and 8 series nozzles are shipped with blue fine mesh (0.02" x 0.02") filter screens.
- Stainless steel adjustment screw to adjust flow and radius.

#### Operating Range

- Spacing: 3 to 20 feet
- Pressure: 15 to 30 psi
- Optimum pressure: 30 psi\*

\*Rain Bird recommends using 1800 PRS spray bodies to maintain optimum nozzle performance in higher pressure situations.

#### Models

- 5 series
- 5 series: bubbler nozzles
- 8 series
- 8 FLT series: designed for lower-trajectory applications, such as windy areas
- 10 series
- 12 series
- 15 series
- 15 strip series



#### HOW TO SPECIFY

**1804 – 10F**

#### NOZZLE SERIES/PATTERN

10 series MPR nozzle with full-circle pattern

#### MODEL

4" pop-up height

▼ Click the icons below for more information.

Country of Origin






USA

Design & Technical Resources





### 5 Series MPR

5° Trajectory

Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	■ Precip (in/h)	▲ Precip (in/h)
5F 	15	3	0.29	2.07	2.39
	20	4	0.33	2.01	2.32
	25	4	0.37	1.62	1.87
	30	5	0.41	1.58	1.83
5H 	15	3	0.14	2.07	2.39
	20	4	0.16	2.01	2.32
	25	4	0.18	1.62	1.87
	30	5	0.20	1.58	1.83
5Q 	15	3	0.07	2.07	2.39
	20	4	0.08	2.01	2.32
	25	4	0.09	1.62	1.87
	30	5	0.10	1.58	1.83





### 8 Series MPR

10° Trajectory

Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	■ Precip (in/h)	▲ Precip (in/h)
8F 	15	5	0.74	1.11	1.29
	20	6	0.86	1.29	1.49
	25	7	0.96	1.44	1.67
	30	8	1.05	1.58	1.82
8H 	15	5	0.37	1.11	1.29
	20	6	0.42	1.26	1.46
	25	7	0.47	1.41	1.63
	30	8	0.52	1.56	1.81
8T 	15	5	0.25	1.13	1.30
	20	6	0.29	1.31	1.51
	25	7	0.32	1.44	1.67
	30	8	0.35	1.58	1.82
8Q 	15	5	0.18	1.08	1.25
	20	6	0.21	1.26	1.46
	25	7	0.24	1.44	1.67
	30	8	0.26	1.56	1.81

### 10 Series MPR

15° Trajectory






Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	■ Precip (in/h)	▲ Precip (in/h)
10F 	15	7	1.16	2.28	2.63
	20	8	1.30	1.96	2.26
	25	9	1.44	1.71	1.98
	30	10	1.58	1.52	1.75
10H 	15	7	0.58	2.28	2.63
	20	8	0.65	1.96	2.26
	25	9	0.72	1.71	1.98
	30	10	0.79	1.52	1.75
10T 	15	7	0.39	2.28	2.63
	20	8	0.43	1.96	2.26
	25	9	0.48	1.71	1.98
	30	10	0.53	1.52	1.75
10Q 	15	7	0.29	2.28	2.63
	20	8	0.33	1.96	2.26
	25	9	0.36	1.71	1.98
	30	10	0.39	1.52	1.75

Note: All MPR nozzles tested on 4" pop-ups. Specify spray body and nozzles separately. Radius reduction over 25% of the normal throw of the nozzle is not recommended.







- Square spacing based on 50% diameter of throw.
- ▲ Triangular spacing based on 50% diameter of throw.

Performance data taken in zero wind conditions.






**12 Series MPR**
*30° Trajectory*

Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	■ Precip (in/h)	▲ Precip (in/h)
	15	9	1.80	2.14	2.47
	20	10	2.10	2.02	2.34
	25	11	2.40	1.91	2.21
	30	12	2.60	1.74	2.01
	15	9	1.35	2.14	2.47
	20	10	1.58	2.02	2.34
	25	11	1.80	1.91	2.21
	15	9	0.90	2.14	2.47
	20	10	1.05	2.02	2.34
	25	11	1.20	1.91	2.21
	15	9	0.60	2.14	2.47
	20	10	0.70	2.02	2.34
	25	11	0.80	1.91	2.21
	15	9	0.45	2.14	2.47
	20	10	0.53	2.02	2.34
	25	11	0.60	1.91	2.21
	30	12	0.65	1.74	2.01





**15 Strip Series**
*30° Trajectory*

Nozzle	Pressure (psi)	W x L (ft)	Flow (gpm)
	15	4 x 13	0.45
	20	4 x 14	0.50
	25	4 x 14	0.56
	30	4 x 15	0.61
	15	4 x 26	0.89
	20	4 x 28	1.00
	25	4 x 28	1.11
	30	4 x 30	1.21
	15	3 x 11	0.35
	20	3 x 12	0.40
	25	4 x 14	0.45
	15	3 x 11	0.35
	20	3 x 12	0.40
	25	4 x 14	0.45
	15	4 x 26	0.89
	20	4 x 28	1.00
	25	4 x 28	1.11
	15	9 x 15	1.34
	20	9 x 16	1.47
	25	9 x 18	1.60
	30	9 x 18	1.73

**15 Series MPR**
*30° Trajectory*



Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	■ Precip (in/h)	▲ Precip (in/h)
	15	5	0.74	2.07	2.39
	20	6	0.86	2.01	2.32
	25	7	0.96	1.62	1.87
	30	8	1.05	1.58	1.83
	15	5	0.74	2.07	2.39
	20	6	0.86	2.01	2.32
	25	7	0.96	1.62	1.87
	15	5	0.74	2.07	2.39
	20	6	0.86	2.01	2.32
	25	7	0.96	1.62	1.87
	15	5	0.74	2.07	2.39
	20	6	0.86	2.01	2.32
	25	7	0.96	1.62	1.87
	15	5	0.74	2.07	2.39
	20	6	0.86	2.01	2.32
	25	7	0.96	1.62	1.87
	30	8	1.05	1.58	1.83

**5 Series MPR Bubbler Nozzles**
*0° Trajectory*

Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)
	15	5	1.50
	20	5	1.50
	25	5	1.50
	30	5	1.50
	15	5	1.00
	20	5	1.00
	25	5	1.00
	30	5	1.00
	15	5	0.50
	20	5	0.50
	25	5	0.50
	15	5	0.50
	20	5	0.50
	25	5	0.50
	30	5	0.50

Note: Indicates adjusted radius at psi shown. Flow at adjust radius of 5 feet.

**8 FLT Series MPR**
*5° Trajectory*

Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	■ Precip (in/h)	▲ Precip (in/h)
	15	6	0.56	3.36	3.88
	20	7	0.65	2.91	3.36
	25	7	0.72	2.60	3.01
	30	8	0.79	2.38	2.75
	15	6	0.28	3.32	3.83
	20	7	0.32	2.87	3.32
	25	7	0.36	2.57	2.97
	30	8	0.39	2.35	2.71

 Click the icon for  
 more information.
