

Matched Precipitation Rate (MPR) Nozzles

Primary Application

Matched Precipitation Rate (MPR) Nozzles simplify the design process by allowing sprinklers with various arcs and radii to be mixed on the same circuit. Fits all Rain Bird spray heads and shrub adapters.

Features

- Matched precipitation rates with Rain Bird® HE-VAN and U-Series Nozzles.
- 1800 Series white filter (0.35" x 0.45") 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.
- Color-coded on the top to enhance your productivity.

Operating Range

- Spacing: 5 to 15 feet (1.5 to 4.5 m)
- Pressure: 15 to 30 psi (1 to 2.1 bar)
- Optimum Pressure: 30 psi (2.1 bar)

Models

- 5 Series – red
- 5 Series, Bubbler Nozzles – gray
- 8 Series – green
- 10 Series – blue
- 12 Series – brown
- 15 Series – black
- 15 Strip Series – black



How To Specify

5 F



Pattern

F: Full

H: Half

Q: Quarter

MPR Radius Range

5: 5 feet (1.5 m)

8: 8 feet (2.4 m)

12: 12 feet (3.7 m)

15: 15 feet (4.6 m)

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	
	30	4 x 15	0.49	
	15	3 x 11	0.35	
	20	3 x 12	0.40	
	25	4 x 14	0.45	
	30	4 x 15	0.49	
	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	9 x 15	1.34	
	20	9 x 16	1.47	
	25	9 x 18	1.60	
	30	9 x 18	1.73	

W = Width of coverage pattern L = Length of coverage pattern

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

15 Strip Series					METRIC
30° Trajectory					
Nozzle	Pressure bar	W x L m	Flow m³/h	Flow l/m	
	1.0	1.2 x 4.0	0.10	1.7	
	1.5	1.2 x 4.3	0.11	2.0	
	2.0	1.2 x 4.3	0.13	2.3	
	2.1	1.2 x 4.6	0.14	2.3	
	2.1	1.2 x 4.6	0.14	2.3	
	1.0	1.2 x 7.9	0.20	3.4	
	1.5	1.2 x 8.5	0.23	4.0	
	2.0	1.2 x 8.5	0.25	4.5	
	2.1	1.2 x 9.2	0.27	4.6	
	2.1	1.2 x 9.2	0.27	4.6	
	1.0	0.8 x 3.2	0.08	1.3	
	1.5	1.0 x 3.9	0.09	1.6	
	2.0	1.2 x 4.5	0.11	1.8	
	2.1	1.2 x 4.6	0.11	1.9	
	2.1	1.2 x 4.6	0.11	1.9	
	1.0	0.8 x 3.2	0.08	1.3	
	1.5	1.0 x 3.9	0.09	1.6	
	2.0	1.2 x 4.5	0.11	1.8	
	2.1	1.2 x 4.6	0.11	1.9	
	2.1	1.2 x 4.6	0.11	1.9	
	1.0	1.2 x 7.9	0.20	3.4	
	1.5	1.2 x 8.5	0.23	4.0	
	2.0	1.2 x 8.5	0.25	4.5	
	2.1	1.2 x 9.2	0.27	4.6	
	2.1	1.2 x 9.2	0.27	4.6	
	1.0	2.7 x 4.6	0.30	5.1	
	1.5	2.7 x 4.9	0.33	5.8	
	2.0	2.7 x 5.5	0.36	6.5	
	2.1	2.7 x 5.5	0.39	6.5	
	2.1	2.7 x 5.5	0.39	6.5	

Performance data taken in zero wind conditions

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	

Note: All MPR nozzles tested on 4" (10.2 cm) pop-ups

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

8 FLT Series MPR							METRIC
5° Trajectory							
Nozzle	Pressure bar	Radius m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h	
	1.0	1.7	0.12	2.1	87	101	
	1.5	2.1	0.15	2.6	71	82	
	2.0	2.4	0.18	2.9	62	71	
	2.1	2.4	0.18	3.0	60	70	
	2.1	2.4	0.18	3.0	60	70	
	1.0	1.7	0.06	1.1	86	100	
	1.5	2.1	0.07	1.3	71	81	
	2.0	2.4	0.09	1.4	61	71	
	2.1	2.4	0.09	1.5	60	69	
	2.1	2.4	0.09	1.5	60	69	

Performance data taken in zero wind conditions

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