



# MPR PLUS SPRAY NOZZLES



## SPECIFICATIONS

### Operational

- Operating pressure range: 20-75 psi
- Recommended operating pressure: 30 psi
- Flow Rate: 0.05 – 4.58 gpm
- Nozzle trajectory:
  - 5': 5° - 8': 10° - 10': 17° - 12': 24° - 15': 28°
  - Corner and Side Strips: 17°
  - 8' Flat Spray: 0°

### Warranty

- Two years

Toro® MPR Plus nozzles make system design and installation easier than ever. Simply select the needed radius and arc—the nozzle does everything else.

## FEATURES & BENEFITS

### Matched Precipitation Rates

Ensures all nozzles with a common radii apply water at approximately the same rate.

### Pre-installed Pressure Compensation Disc

Eliminates excessive misting, conserves water and provides precise flow rates.

### Additional Features

- ✓ Customized screens for each nozzle
- ✓ Fine-mesh snap-in filter screens for lower flow nozzles
- ✓ Convenient nozzle packaging – nozzles and screens packed separately
- ✓ Adjustment screw allows up to 25% reduction in radius and complete shutoff

### MPR PLUS SPRAY NOZZLES MODEL LIST

Model	Description	Model	Description
<b>5' MPR PLUS NOZZLE—RED</b>		<b>8' MPR PLUS NOZZLE—GREEN</b>	
5Q	90° Arc	8Q	90° Arc
5T	120° Arc	8T	120° Arc
5H	180° Arc	8H	180° Arc
5TT	240° Arc	8TT	240° Arc
5TQ	270° Arc	8TQ	270° Arc
5F	360° Arc	8F	360° Arc
<b>8' FLAT SPRAY—BLACK</b>		<b>10' MPR PLUS NOZZLE—BLUE</b>	
FSQ	90° Arc	10Q	90° Arc
FSH	180° Arc	10T	120° Arc
FSF	360° Arc	10H	180° Arc
FSQ-LG	90° Arc, low flow	10TT	240° Arc
FSH-LG	180° Arc, low flow	10TQ	270° Arc
FSF-LG	360° Arc, low flow	10F	360° Arc
<b>12' MPR PLUS NOZZLE—BROWN</b>		<b>15' MPR PLUS NOZZLE—BLACK</b>	
12Q	90° Arc	15Q	90° Arc
12T	120° Arc	15T	120° Arc
12H	180° Arc	15H	180° Arc
12TT	240° Arc	15TT	240° Arc
12TQ	270° Arc	15TQ	270° Arc
12F	360° Arc	15F	360° Arc
<b>SPECIAL PATTERNS—ORANGE</b>			
4SST	Side Strip 4'x30'		
4EST	End Strip 4'x15'		
4CST	Center Strip 4'x30'		
9SST	Side Strip 9'x18'		
4SSST	Side Strip 4'x18'		
2SST	Side Strip 2' x 6'		

### Specifying Information—MPR Plus

XX-XXX-PC		
Radius	Arc	Optional
XXX	XXX	PC
5–5'	Q–90° T–120°	PC—Pressure Compensation
8–8'	H–180°	
10–10'	TT–240° Q–270°	
12–12'	F–360°	
15–15'	EST—End Strip	
	CST—Center Strip	
	SST—Side Strip	
<b>Example:</b> A 570 MPR Plus Nozzle with a spray of 10', 180° arc and pressure compensation, would be specified as: <b>10-H-PC</b>		

*Note:* To specify a MPR Plus nozzle with a 570Z sprinkler body, attach the body specification before the above nozzle specification. Do not use PCDs with 570Z PR & 570Z PRX models

**PERFORMANCE DATA-MPR PLUS SPRAY NOZZLES**

**5' SERIES WITH 5° TRAJECTORY—RED**

**8' SERIES WITH 10° TRAJECTORY—GREEN**

**10' SERIES WITH 17° TRAJECTORY—BLUE**

Arc	Desc.	psi	gpm	Ra- dius	Prec. Rate		Arc	Desc.	psi	gpm	Ra- dius	Prec. Rate		Arc	Desc.	psi	gpm	Ra- dius	Prec. Rate	
					▲	■						▲	■						▲	■
90°	5-Q	20	0.05	4	1.40	1.21	90°	8-Q	20	0.17	7	1.55	1.34	90°	10-Q	20	0.30	9	1.66	1.44
		30	0.09	5	1.61	1.40			30	0.24	8	1.68	1.45			30	0.40	10	1.79	1.55
		40	0.12	6	1.78	1.54			40	0.26	9	1.61	1.39			40	0.50	11	1.85	1.60
		50	0.15	6	1.86	1.62			50	0.29	9	1.60	1.39			50	0.60	12	1.86	1.62
	30-40	0.09	5	1.61	1.40	30-40			0.22	8	1.54	1.33	30-40			0.33	10	1.48	1.28	
40-75	0.10	5	1.79	1.55	40-75	0.25	8	1.75	1.51	40-75	0.37	10	1.66	1.43						
120°	5-T	20	0.07	4	1.47	1.27	120°	8-T	20	0.23	7	1.58	1.36	120°	10-T	20	0.42	9	1.74	1.51
		30	0.12	5	1.61	1.40			30	0.30	8	1.57	1.36			30	0.52	10	1.75	1.51
		40	0.16	6	1.78	1.54			40	0.36	9	1.67	1.45			40	0.65	11	1.80	1.56
		50	0.20	6	1.86	1.62			50	0.40	9	1.66	1.44			50	0.75	12	1.75	1.51
	30-40	0.12	5	1.61	1.40	30-40			0.29	8	1.52	1.32	30-40			0.44	10	1.48	1.28	
40-75	0.13	5	1.79	1.55	40-75	0.35	8	1.84	1.59	40-75	0.50	10	1.68	1.45						
180°	5-H	20	0.10	4	1.40	1.21	180°	8-H	20	0.37	8	1.47	1.27	180°	10-H	20	0.60	9	1.66	1.44
		30	0.19	5	1.70	1.47			30	0.50	8	1.75	1.51			30	0.71	10	1.59	1.38
		40	0.23	6	1.70	1.47			40	0.58	9	1.80	1.56			40	0.85	11	1.57	1.36
		50	0.27	6	1.68	1.45			50	0.65	9	1.80	1.56			50	0.99	12	1.65	1.43
	30-40	0.18	5	1.61	1.40	30-40			0.44	8	1.54	1.33	30-40			0.66	10	1.48	1.28	
40-75	0.20	5	1.79	1.55	40-75	0.50	8	1.75	1.51	40-75	0.75	10	1.68	1.45						
240°	5-TT	20	0.15	4	1.57	1.36	240°	8-TT	20	0.56	7	1.92	1.66	240°	10-TT	20	0.71	9	1.47	1.27
		30	0.25	5	1.68	1.45			30	0.70	8	1.84	1.59			30	0.97	10	1.63	1.41
		40	0.30	6	1.66	1.44			40	0.80	9	1.86	1.61			40	1.10	11	1.67	1.45
		50	0.35	6	1.63	1.41			50	0.88	9	1.82	1.58			50	1.19	11	1.65	1.43
	30-40	0.23	5	1.54	1.34	30-40			0.59	8	1.55	1.34	30-40			0.89	10	1.49	1.29	
40-75	0.27	5	1.81	1.57	40-75	0.70	8	1.84	1.59	40-75	1.00	10	1.68	1.45						
270°	5-TQ	20	0.20	4	1.86	1.61	270°	8-TQ	20	0.63	7	1.92	1.66	270°	10-TQ	20	0.82	9	1.51	1.31
		30	0.29	5	1.73	1.50			30	0.76	8	1.77	1.53			30	1.04	10	1.55	1.34
		40	0.34	6	1.68	1.45			40	0.86	9	1.78	1.54			40	1.20	11	1.62	1.41
		50	0.40	6	1.66	1.44			50	0.93	9	1.71	1.48			50	1.35	11	1.66	1.44
	30-40	0.26	5	1.55	1.34	30-40			0.64	8	1.49	1.29	30-40			0.99	10	1.48	1.28	
40-75	0.29	5	1.73	1.50	40-75	0.70	8	1.63	1.41	40-75	1.09	10	1.63	1.41						
360°	5-F	20	0.25	4	1.75	1.51	360°	8-F	20	0.74	7	1.69	1.46	360°	10-F	20	1.11	9	1.72	1.49
		30	0.38	5	1.70	1.47			30	1.00	8	1.75	1.51			30	1.49	10	1.67	1.44
		40	0.45	6	1.66	1.44			40	1.16	9	1.80	1.56			40	1.61	11	1.63	1.42
		50	0.53	6	1.65	1.43			50	1.30	9	1.80	1.56			50	1.85	11	1.71	1.48
	30-40	0.35	5	1.57	1.36	30-40			0.85	8	1.49	1.29	30-40			1.33	10	1.49	1.29	
40-75	0.39	5	1.75	1.51	40-75	1.00	8	1.75	1.51	40-75	1.51	10	1.69	1.46						

**12' SERIES WITH 24° TRAJECTORY—BROWN**

**15' SERIES WITH 28° TRAJECTORY—BLACK**

**SPECIAL PATTERNS—ORANGE**

Arc	Desc.	psi	gpm	Ra- dius	Prec. Rate		Arc	Desc.	psi	gpm	Radius	Prec. Rate		Pattern	Desc.	psi	gpm	Special Patterns		Prec. Rate*	
					▲	■						Width	Length								
90°	12-Q	20	0.40	11	1.48	1.28	90°	15-Q	20	0.68	14	1.55	1.34	■	4-EST	20	0.38	3'	x	12'	2.03
		30	0.50	12	1.55	1.35			30	0.85	15	1.69	1.46			30	0.45	4'	x	15'	1.44
		40	0.60	13	1.64	1.42			40	1.04	16	1.82	1.57			40	0.53	5'	x	18'	1.13
		50	0.63	13	1.67	1.44			50	1.23	16	2.15	1.86			50	0.60	6'	x	20'	0.96
	30-40	0.48	12	1.49	1.29	30-40			0.75	15	1.49	1.29	30-40			0.43	4'	x	15'	1.38	
40-75	0.53	12	1.65	1.43	40-75	0.81	15	1.61	1.40	40-75	0.50	4'	x	15'	1.61						
120°	12-T	20	0.57	11	1.58	1.37	120°	15-T	20	0.95	14	1.75	1.52	■	4-CST	20	0.75	3'	x	24'	2.01
		30	0.72	12	1.68	1.45			30	1.10	15	1.64	1.42			30	0.90	4'	x	30'	1.44
		40	0.87	13	1.87	1.62			40	1.30	16	1.82	1.57			40	1.04	4'	x	30'	1.67
		50	0.97	13	1.93	1.67			50	1.45	16	2.03	1.75			50	1.16	4'	x	31'	1.80
	30-40	0.64	12	1.49	1.29	30-40			1.00	15	1.49	1.29	30-40			0.86	4'	x	30'	1.38	
40-75	0.70	12	1.63	1.41	40-75	1.10	15	1.64	1.42	40-75	1.00	4'	x	30'	1.61						
180°	12-H	20	0.95	11	1.76	1.52	180°	15-H	20	1.37	13	1.79	1.55	■	9-SST	20	1.00	9'	x	18'	1.19
		30	1.09	12	1.69	1.47			30	1.65	15	1.66	1.44			30	1.20	9'	x	18'	1.43
		40	1.30	13	1.72	1.49			40	2.02	16	1.77	1.53			40	1.38	9'	x	20'	1.48
		50	1.55	14	1.77	1.53			50	2.14	16	1.87	1.62			50	1.55	10'	x	22'	1.36
	30-40	0.96	12	1.49	1.29	30-40			1.50	15	1.49	1.29	30-40			1.10	9'	x	18'	1.31	
40-75	1.05	12	1.63	1.41	40-75	1.65	15	1.64	1.42	40-75	1.20	9'	x	18'	1.43						
240°	12-TT	20	1.12	11	1.55	1.35	240°	15-TT	20	1.78	14	1.59	1.38	■	4-SST	20	0.65	4'	x	24'	1.30
		30	1.45	12	1.69	1.46			30	2.20	15	1.64	1.42			30	0.90	4'	x	30'	1.44
		40	1.63	13	1.75	1.52			40	2.66	16	1.74	1.51			40	1.04	4'	x	32'	1.56
		50	1.80	13	1.79	1.55			50	2.84	16	1.86	1.61			50	1.16	5'	x	33'	1.35
	30-40	1.28	12	1.49	1.29	30-40			2.00	15	1.49	1.29	30-40			0.88	4'	x	30'	1.41	
40-75	1.40	12	1.63	1.41	40-75	2.20	15	1.64	1.42	40-75	1.00	4'	x	30'	1.61						
270°	12-TQ	20	1.05	11	1.42	1.23	270°	15-TQ	20	2.10	13	1.85	1.61	■	2-SST	20	0.08	2'	x	5'	1.54
		30	1.55	12	1.61	1.39			30	2.60	15	1.72	1.49			30	0.09	2'	x	6'	1.44
		40	1.65	13	1.58	1.36			40	3.00	16	1.86	1.61			40	0.10	2'	x	7'	1.38
		50	1.80	13	1.59	1.38			50	3.40	16	1.98	1.72			50	0.12	3'	x	7'	1.10
	30-40	1.44	12	1.49	1.29	30-40			2.30	15	1.53	1.32	30-40			0.09	2'	x	6'	1.44	
40-75	1.60	12	1.66	1.44	40-75	2.50	15	1.66	1.44	40-75	0.10	2'	x	6'	1.61						
360°	12-F	20	1.67	11	1.54	1.34	360°	15-F	20	2.85	13	1.89	1.63	■	4S-SST	20	0.46	4'	x	17'	1.30
		30	2.19	12	1.70	1.47			30	3.60	15	1.79	1.55			30	0.55	4'	x	18'	1.47
		40	2.35	13	1.68	1.46			40	4.20	16	1.84	1.59			40	0.63	4'	x	19'	1.60
		50	2.70	13	1.79	1.55			50	4.58	16	2.00	1.73			50	0.71	5'	x	19'	1.44
	30-40	1.92	12	1.49	1.29	30-40			3.00	15	1.49	1.29	30-40			0.50	4'	x	18'	1.34	
40-																					