



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 |
|----------------------------------|---------------------|----------------------------------|-------------|
| 5' MPR PLUS NOZZLE—RED | | 8' MPR PLUS NOZZLE—GREEN | |
| 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 |
| 8' FLAT SPRAY—BLACK | | 10' MPR PLUS NOZZLE—BLUE | |
| 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 |
| 12' MPR PLUS NOZZLE—BROWN | | 15' MPR PLUS NOZZLE—BLACK | |
| 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 |
| SPECIAL PATTERNS—ORANGE | | | |
| 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 | |
| Example: A 570 MPR Plus Nozzle with a spray of 10', 180° arc and pressure compensation, would be specified as: 10-H-PC | | |

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 | | | |
| | 5-Q-PC | 30-40 | 0.09 | 5 | 1.61 | 1.40 | | | 8-Q-PC | 30-40 | 0.22 | 8 | 1.54 | | | 1.33 | 10-Q-PC | 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 | | | |
| | 5-T-PC | 30-40 | 0.12 | 5 | 1.61 | 1.40 | | | 8-T-PC | 30-40 | 0.29 | 8 | 1.52 | | | 1.32 | 10-T-PC | 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 | | | |
| | 5-H-PC | 30-40 | 0.18 | 5 | 1.61 | 1.40 | | | 8-H-PC | 30-40 | 0.44 | 8 | 1.54 | | | 1.33 | 10-H-PC | 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 | | | |
| | 5-TT-PC | 30-40 | 0.23 | 5 | 1.54 | 1.34 | | | 8-TT-PC | 30-40 | 0.59 | 8 | 1.55 | | | 1.34 | 10-TT-PC | 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 | | | |
| | 5-TQ-PC | 30-40 | 0.26 | 5 | 1.55 | 1.34 | | | 8-TQ-PC | 30-40 | 0.64 | 8 | 1.49 | | | 1.29 | 10-TQ-PC | 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 | | | |
| | 5-F-PC | 30-40 | 0.35 | 5 | 1.57 | 1.36 | | | 8-F-PC | 30-40 | 0.85 | 8 | 1.49 | | | 1.29 | 10-F-PC | 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 | | | |
| | 12-Q-PC | 30-40 | 0.48 | 12 | 1.49 | 1.29 | | | 15-Q-PC | 30-40 | 0.75 | 15 | 1.49 | | 1.29 | 4-EST-PC | 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 | | | |
| | 12-T-PC | 30-40 | 0.64 | 12 | 1.49 | 1.29 | | | 15-T-PC | 30-40 | 1.00 | 15 | 1.49 | | 1.29 | 4-CST-PC | 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 | | | |
| | 12-H-PC | 30-40 | 0.96 | 12 | 1.49 | 1.29 | | | 15-H-PC | 30-40 | 1.50 | 15 | 1.49 | | 1.29 | 9-SST-PC | 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 | | | |
| | 12-TT-PC | 30-40 | 1.28 | 12 | 1.49 | 1.29 | | | 15-TT-PC | 30-40 | 2.00 | 15 | 1.49 | | 1.29 | 4-SST-PC | 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 | | | |
| | 12-TQ-PC | 30-40 | 1.44 | 12 | 1.49 | 1.29 | | | 15-TQ-PC | 30-40 | 2.30 | 15 | 1.53 | | 1.32 | 2-SST-PC | 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 | | | | | | | | | | | | | | | | |