MP ROTATOR™

Design Guide
High-Efficiency, Multi-Stream Nozzles

Hunter®

A Smarter Way to Water

Reliable Operation

The patented double-pop nozzle keeps the sprinkler free of external debris.

Efficient Application

Multiple rotating streams provide even coverage and wind resistance, eliminating dry spots.

Highly Versatile

With the widest radius range from 1.5 m wide strips up to 10.7 m radius, the MP Rotator Nozzle provides highly efficient irrigation across a diverse range of applications.

Pressure Regulation

For best results, use the pressure-regulated Pro-Spray™ PRS40 Sprinkler Body.

Accurate Adjustments

The arc and radius can be adjusted while maintaining matched precipitation. The radius can be reduced up to 25%.

Durable Design

The removable inlet filter keeps the sprinkler free of internal debris.

Easy Installation

Compatible with all Hunter spray bodies — perfect for retrofits. Use the MP-HT for female-threaded sprinkler bodies.

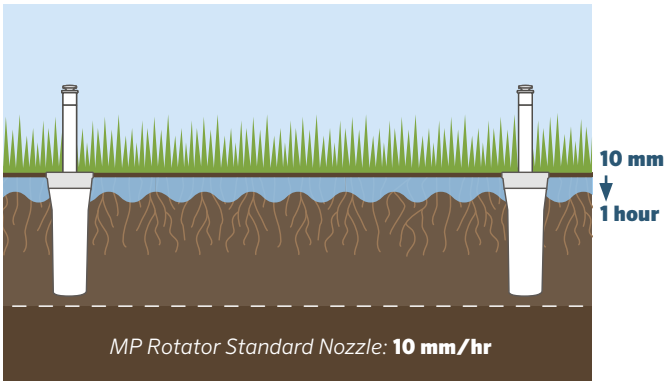
hunter.info/**MPRotatorEM**

MATCHED PRECIPITATION

MP Rotator Nozzles come in two precipitation rate options to provide maximum flexibility for your irrigation design.

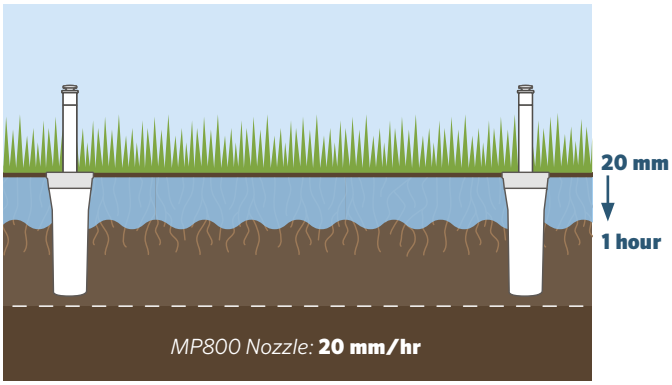
MP Rotator Standard Precipitation Rate

MP Rotator Standard Nozzles have the slowest precipitation rate in the industry at approximately 10 mm/hr, preventing runoff in the majority of soil applications and allowing for gentle hydration of the landscape.



MP800 Precipitation Rate

MP Rotator MP800 Nozzles have a precipitation rate of approximately 20 mm/hr, allowing for high-efficiency irrigation of small spaces and medium-grade soils.



Matching Soil Intake Rates

Matching your precipitation rate to your soil intake rate will eliminate the hazards of runoff and help conserve water. With two different precipitation rate options available for the MP Rotator, you can now choose the best high-efficiency rotary nozzle for your plant material, soil type, and slope.

- MP Rotator Standard Nozzles deliver water slowly at a rate that most soils and slopes can effectively absorb.
- MP800 Nozzles deliver water at half the rate of a spray nozzle, better matching typical soil intake rates.
- Standard spray nozzles apply water at a rate much higher than most soils can absorb, causing runoff in most soil types.

INFILTRATION RATE BY SOIL TYPE

	SLOPE PERCENTAGE			
	0-5%	5-8%	8-12%	>12%
COARSE SAND	●●	●●	●●	●
FINE SAND	●●	●●	●	–
SANDY LOAM	●●	●	●	–
FINE SANDY LOAM	●●	●	–	–
LOAM/SILT LOAM	●	●	–	–
CLAY/CLAY LOAM	●	–	–	–

Water infiltration into the soil is less than:

- ▢ 40 mm/hr
- ▢ 25 mm/hr
- ▢ 13 mm/hr
- ⊟ Cycle and Soak required to avoid runoff

Application

1 MP Rotator Application

Specify the MP Rotator as the desired nozzle in a spray head body.

Retrofit spray systems by installing the MP Rotator onto any conventional spray head or shrub adapter.

2 Radius Adjustment

All MP Rotator models allow for easy radius adjustment of up to 25% while maintaining automatic matched precipitation.

Turn the nozzle adjustment screw clockwise to reduce the radius or counterclockwise to increase the radius. Four full rotations will maximise the effect. Additional rotations will not affect the performance of the nozzle.

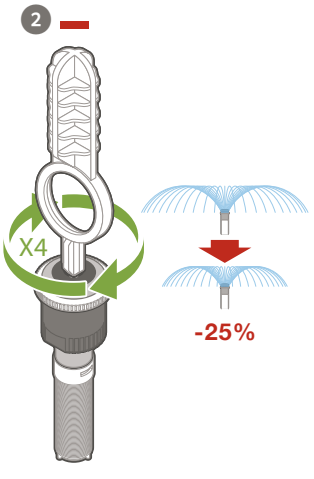
3 Arc Setting

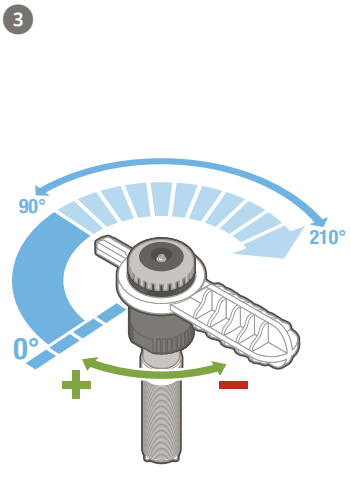
The MP Rotator has a fixed left edge on all 90° to 210° models and 210° to 270° models. Turn the adjustment ring clockwise to increase the arc or counterclockwise to decrease the arc.

4 Pressure

Optimal performance and uniformity are reached at an operating pressure of 2.8 bar (280 kPa). Use the Pro-Spray PRS40 Sprinkler Body to achieve pressure regulation of 2.8 bar (280 kPa).

To reach the minimum radius, use the Pro-Spray PRS30 Sprinkler Body for pressure regulation to 2.1 bar (210 kPa). To achieve the maximum radius, increase the pressure over 2.8 bar (280 kPa).





MP ROTATOR NOZZLE FACTORY SETTINGS

MP Rotator Nozzles are shipped from the factory at the maximum radius setting and with the following arc settings:

MP ROTATOR MODEL	FACTORY-SET ARC
90° to 210°	180°
210° to 270°	210°
360°	Full-circle
MP Corner	45°
MP Side Strip	180°
MP Left Corner Strip	90°
MP Right Corner Strip	90°

MP ROTATOR NOZZLE HEIGHT AND TRAJECTORY

Nozzle No.	Pressure		Degrees of Trajectory	Max. Height of Spray (m)
	bar	kPa		
MP-800SR	2.8	280	18°	0.5
MP-815	2.8	280	15°	0.3
MP-820	2.8	280	16°	0.8
MP-1000	2.8	280	20°	0.5
MP-2000	2.8	280	26°	1.1
MP-3000	2.8	280	26°	2.0
MP-3500	2.8	280	26°	2.0
MP Corner	2.8	280	14°	0.4
MP Side Strip	2.8	280	16°	0.5
MP Left Corner Strip	2.8	280	16°	0.5
MP Right Corner Strip	2.8	280	16°	0.5

Layout and Placement

Run Times

Because MP Rotator Nozzles apply less water with increased uniformity, simply doubling the run time used for traditional spray nozzles may supply sufficient water to the landscape while using less water overall.

You can also calculate the run time based on the lower precipitation rate.

Visit **hunterindustries.com/en-metric/tools/runtime** for more information on run time calculations.

Precipitation Rate Calculations

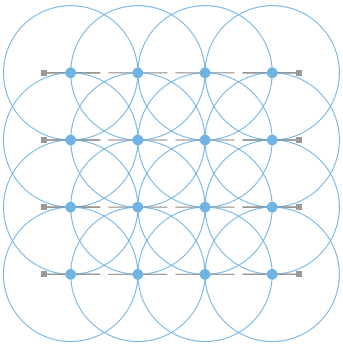
MP Rotator Nozzles are recommended for use with head-to-head coverage in either square or triangular layouts.

Square Spacing Application Rate

$$\frac{1{,}000 \times \text{Flow Rate of } 360^\circ \text{ Sprinkler } (m^3/hr)}{(\text{Head Spacing} \times \text{Row Spacing})}$$

Example:

$$\frac{1{,}000 \times 0.34\ (m^3/hr)}{5.8 \times 5.8} = 10.1\ mm/hr$$



5.8 m Square Spacing

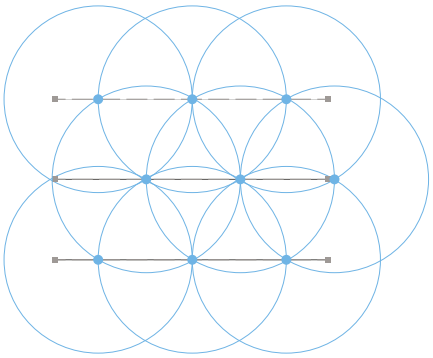
MP-2000-360
2.8 bar (280 kPa)
5.8 m Radius
0.34 m³/hr
5.8 m Head x 5.8 m Row
Square Spacing

Equilateral Triangular Spacing Application Rate

$$\frac{1{,}000 \times \text{Flow Rate for } 360^\circ \text{ Sprinkler } (m^3/hr)}{(\text{Head Spacing} \times \text{Head Spacing})\ 0.866}$$

Example:

$$\frac{1{,}000 \times 0.84\ (m^3/hr)}{(9.1 \times 9.1)\ 0.866} = 11.7\ mm/hr$$



9.1 m Triangular Spacing

MP-3000-360
2.8 bar (280 kPa)
9.1 m Radius
0.84 m³/hr
9.1 m Head x 7.9 m Row
Triangular Spacing

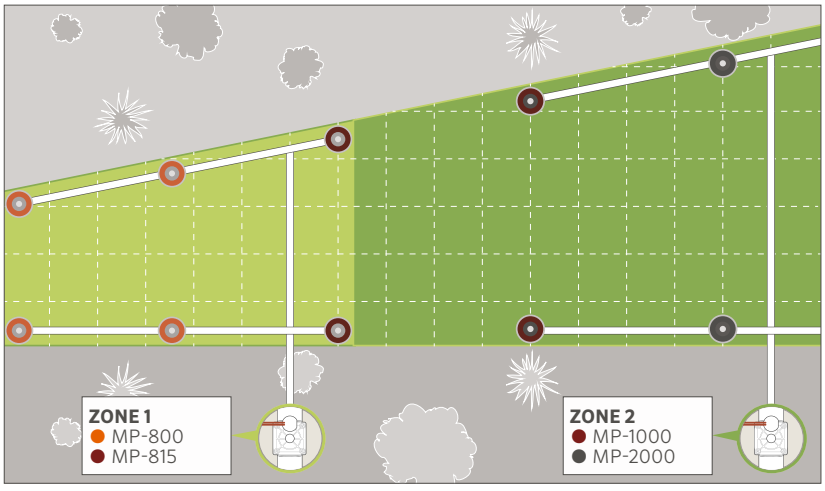
Note: Equilateral triangular spacing has a higher application rate than square spacing due to less area per sprinkler.

Zoning with MP Rotator Nozzles

MP Rotator Standard Nozzles have a matched precipitation rate of approximately 10 mm/hr. This means any MP Rotator Standard Nozzle at any arc or radius can be placed on the same zone.

MP800 Nozzles can be configured to work well in head-to-head coverage in either square or triangular layouts. When square spacing is used, the resulting precipitation rate will be approximately 20 mm/hr.

Since this precipitation rate differs from the MP Rotator Standard Nozzles, you should zone the MP800 Family separately to maintain matched precipitation within each zone.

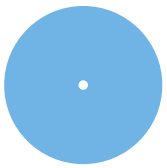
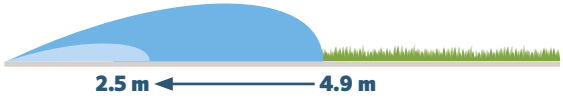
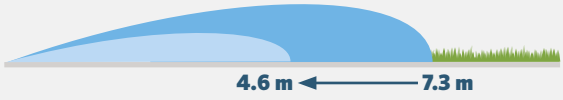


MP Rotator MP800 Nozzles

20 mm/hr

Matched Precipitation

Maximise water savings for tight spaces with the MP800. This highly efficient nozzle offers the benefits of multi-stream, multi-trajectory technology in smaller areas than ever before. The MP800 delivers water to distances as short as 1.8 m at a matched precipitation rate of approximately **20 mm/hr** — less than half the rate of traditional spray nozzles.

Radius	Arc		
	90° to 210°	210° to 270°	 360°
MP-800SR 1.8 m 3.5 m	MP-800SR-90		MP-800SR-360
MP-815  2.5 m 4.9 m	MP-815-90	MP-815-210	MP-815-360
MP-820  4.6 m 7.3 m	MP-820-90	MP-820-210	MP-820-360

Pressure Ratings

Like the MP Rotator Standard Nozzle Family, the MP800 Family prefers 2.8 bar (280 kPa) for optimal performance. This pressure yields the best results for coverage and distribution uniformity. **However, to achieve the lowest radius setting of 1.8 m, you must regulate the inlet pressure to 2.1 bar (210 kPa).** Use a Pro-Spray PRS30 Sprinkler Body to achieve a consistent inlet pressure of 2.1 bar (210 kPa).

Pro-Spray PRS30
Pair the MP Rotator Nozzle with a Pro-Spray PRS30 Sprinkler Body to achieve the minimum radius.

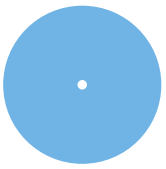
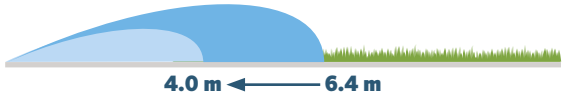
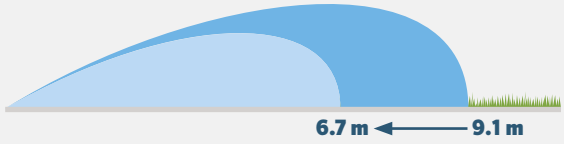
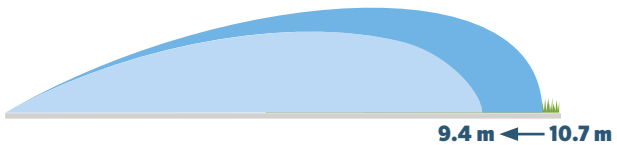
Pro-Spray PRS40
Pair the MP Rotator Nozzle with a Pro-Spray PRS40 Sprinkler Body for peak performance.

MP Rotator Standard Nozzles

10 mm/hr

Matched Precipitation

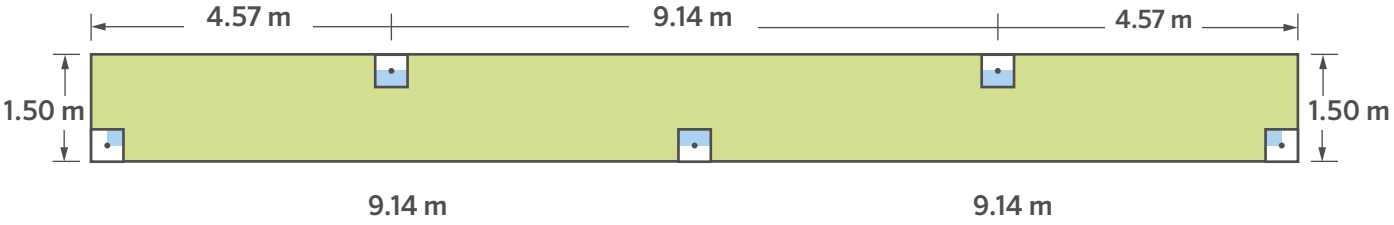
All MP Rotator Standard Nozzles have a matched precipitation rate of approximately **10 mm/hr** across a radius range of 2.5 m to 10.7 m.

Radius	Arc		
	90° to 210°	210° to 270°	 360°
MP-1000 2.5 m ◄——— 4.5 m	MP-1000-90	MP-1000-210	MP-1000-360
MP-2000  4.0 m ◄——— 6.4 m	MP-2000-90	MP-2000-210	MP-2000-360
MP-3000  6.7 m ◄——— 9.1 m	MP-3000-90	MP-3000-210	MP-3000-360
MP-3500  9.4 m ◄——— 10.7 m	MP-3500-90		

Side Strip and Corner Models

Side Strip Precipitation Example

The precipitation rate of the MP Rotator Strip Nozzles is dependent on the layout of the system. The following is an example of a potential design and associated precipitation rate:



Precipitation Rate Using the Total Area Method

$$P = \frac{1{,}000 \times \text{Total Flow } (m^3/hr)}{\text{Total Area } (m^2)}$$

$$P = \frac{1{,}000 \times (0.04 + 0.09 + 0.09 + 0.09 + 0.04)}{1.5 \times 18.28}$$

$$P = 13 \text{ mm/hr}$$

MP-LCS- 515
(Left Strip)

MP-SS-530
(Side Strip)

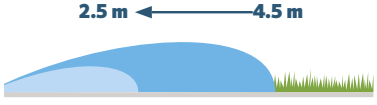
MP-RCS-515
(Right Strip)

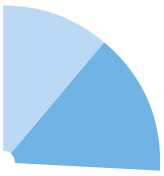
MP Rotator Corner Nozzle

The MP Corner is specially designed to provide extra coverage in tight corners so that neighbouring heads do not need to reach into the corner to provide head-to-head coverage, avoiding unnecessary overspray onto non-target areas.

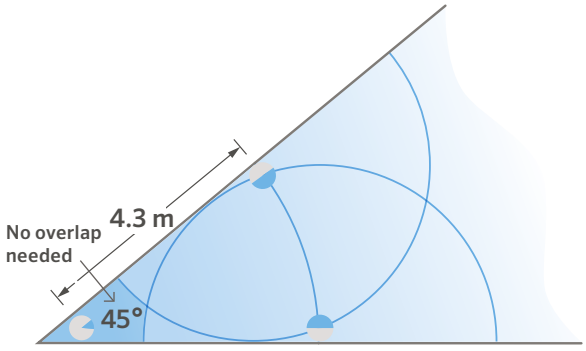
MP-CORNER

10 mm/hr





45° to 105°



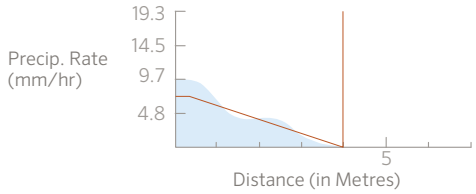
Uniformity

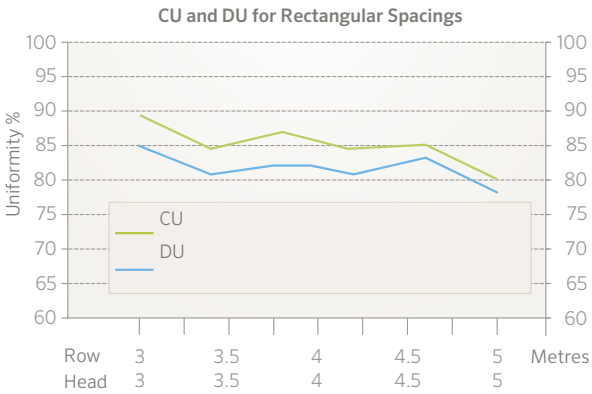
Uniformity Samples

The various streams of the MP Rotator Nozzle allow it to target all areas of the landscape evenly when properly installed, yielding superior uniformity over traditional spray nozzles. Several independent studies demonstrate this difference and other efficiency benefits of the MP Rotator Nozzle. Read more at **hunterindustries.com/en-metric/site-studies**.

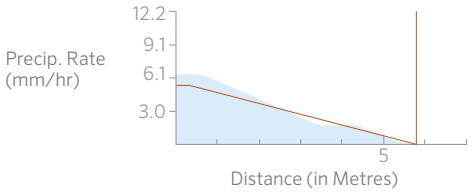
Below is a sampling of MP Rotator profiles and associated uniformities. These uniformity examples result from tests performed indoors in controlled conditions. On-site conditions will affect actual uniformity, and the uniformity data may change due to continuing product development.

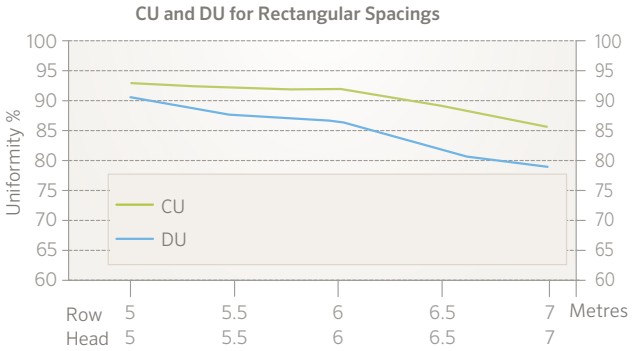
MP-1000-90 180° at 2.8 bar (280 kPa)



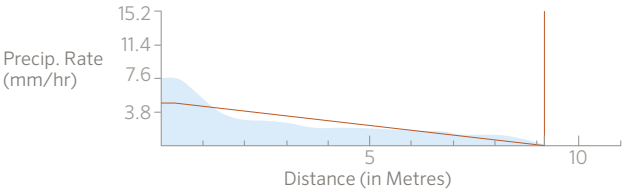


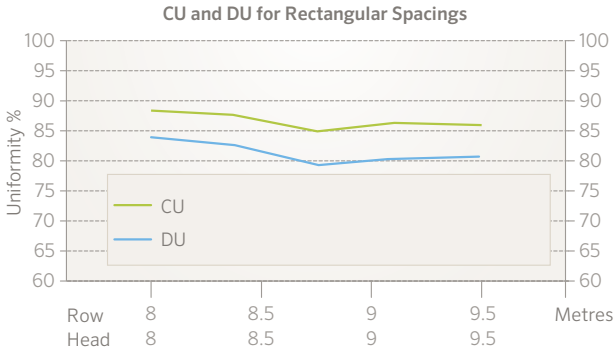
MP-2000-90 180° at 2.8 bar (280 kPa)





MP-3000-90 180° at 2.8 bar (280 kPa)





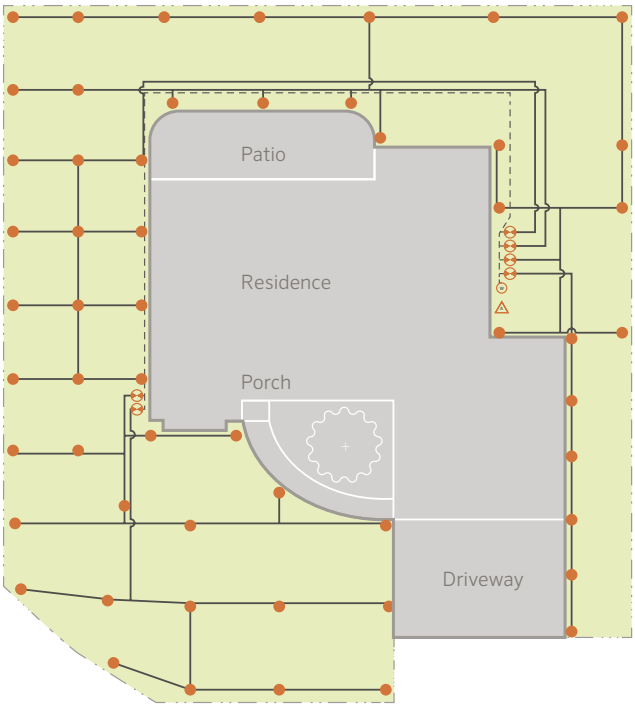
Cost and Water Savings

Lower System Cost

A design with MP Rotator Nozzles uses far less material and equipment than a traditional spray design, resulting in an overall reduced project cost. Due to the lower flow rates, more heads can be run at once, reducing the number of valves needed.

Learn more about how the MP Rotator Nozzle provides material and labour savings in this residential site study: **hunter.info/MPSavingsEM.**

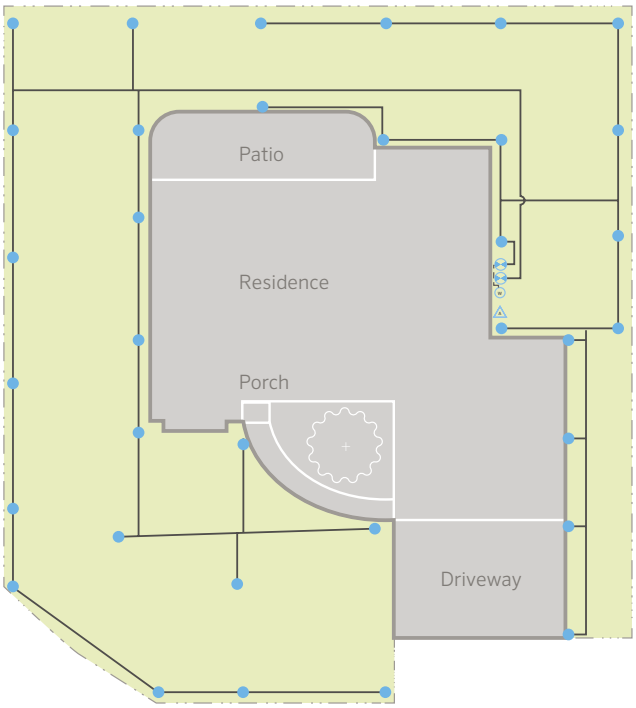
Design Using Traditional Spray Nozzles



IRRIGATION SYSTEM COST COMPARISON

Materials Needed	With Spray Nozzles
Valves	6
Mainline	45.7 m
Laterals	234.8 m
Sprinklers	55
Controller	6-Station
Wire	53.3 m
SPRAY COST	**$$$$**

Design Using MP Rotator Nozzles



IRRIGATION SYSTEM COST COMPARISON

Materials Needed	With MP Rotator Nozzles
Valves	2
Mainline	4.6 m
Laterals	182.9 m
Sprinklers	34
Controller	4-Station
Wire	6.1 m
MP ROTATOR COST	**$$**

Filtration Recommendations and Wastewater Applications

Filtration Guidelines

You should use primary filtration when operating with dirty water.

A general rule is to use primary filtration that is five times the mesh (micron) rating of the nozzle filter. For example, if the nozzle filter is 20 mesh (840 microns), the primary filter should be 100 mesh (150 microns).

Field testing has shown that the MP-800SR Nozzle runs well in dirty water conditions with the use of a 120-mesh (125-micron) primary filtration system.

HY-100, HY-100-75, HY-075
Height: 15 cm
Width: 7 cm
Depth: 13 cm

Hunter's HY Filters with 150-mesh (100-micron) size are a great solution for zone-specific MP-800SR arrangements.

NOZZLE FILTER SIZES

Nozzle	Screen size (mesh)	Screen size (micron)	Description	Part #
MP-800SR-90	60	250	Very Fine (gray)	MP8SCREENSP
MP-800SR-360	40	420	Fine (white)	MPFSCREENSP
MP-815				
MP-1000				
MP-2000				
MP Corner				
MP Strips				
MP-820	20	840	Coarse (tan)	MPCSCREENSP
MP-3000				
MP-3500				

Reclaimed Wastewater

The MP Rotator Nozzle is an excellent choice when using reclaimed wastewater. The materials used in the MP Rotator are chemical-resistant polypropylene, polyurethane, acetal plastics, stainless steel, and EPDM rubber. These materials are designed to withstand the chemicals and conditions commonly used in wastewater irrigation.

MP Rotator MP800 Nozzles

20 mm/hr

MP ROTATOR PERFORMANCE DATA

MP-800SR
Radius: 1.8 to 3.5 m
Adjustable Arc and Full-Circle
- Orange and Grey: 90° to 210°
- Lime Green and Grey: 360°

MP-815
Radius: 2.5 to 4.9 m
Adjustable Arc and Full-Circle
- Maroon and Grey: 90° to 210°
- Lt. Blue and Grey: 210° to 270°
- Olive and Grey: 360°

MP-820
Radius: 4.6 to 7.3 m
Adjustable Arc and Full-Circle
- Black and Grey: 90° to 210°
- Green and Grey: 210° to 270°
- Red and Grey: 360°

Arc	Pressure		MP-800SR Radius	MP-800SR Flow		MP-800SR Precip. mm/hr		MP-815 Radius	MP-815 Flow		MP-815 Precip. mm/hr		MP-820 Radius	MP-820 Flow		MP-820 Precip. mm/hr	
	bar	kPa	m	m³/hr	l/min	■	▲	m	m³/hr	l/min	■	▲	m	m³/hr	l/min	■	▲
90°	2.1	210	2.6	0.04	0.61	22	25	4.3	0.10	1.59	21	24	6.1	0.19	3.20	21	24
	2.5	250	2.9	0.04	0.72	21	24	4.5	0.10	1.74	21	24	6.4	0.21	3.51	21	24
	2.8	**280**	**3.1**	**0.05**	**0.87**	**21**	**24**	**4.6**	**0.11**	**1.85**	**21**	**24**	**6.7**	**0.22**	**3.65**	**20**	**23**
	3.0	300	3.4	0.06	0.95	20	23	4.8	0.12	1.97	21	24	7.0	0.24	4.01	20	23
	3.5	350	3.5	0.06	1.02	20	23	4.9	0.12	2.08	21	24	7.3	0.25	4.19	19	22
	3.8	380	3.5	0.06	1.06	20	23	4.9	0.13	2.20	22	25	7.3	0.26	4.37	20	23
180°	2.1	210	2.6	0.07	1.21	22	25	4.0	0.17	2.84	21	25	6.1	0.39	6.50	21	24
	2.5	250	2.8	0.08	1.40	21	24	4.3	0.20	3.26	21	24	6.4	0.41	6.86	20	23
	2.8	**280**	**3.0**	**0.10**	**1.59**	**21**	**24**	**4.5**	**0.21**	**3.52**	**21**	**24**	**6.7**	**0.46**	**7.58**	**20**	**23**
	3.0	300	3.3	0.10	1.74	19	22	4.6	0.22	3.63	21	24	6.7	0.47	7.79	21	24
	3.5	350	3.4	0.11	1.82	19	22	4.8	0.24	4.01	21	24	7.0	0.50	8.36	20	24
	3.8	380	3.5	0.11	1.89	18	21	4.9	0.25	4.20	21	24	7.3	0.54	8.92	20	23
210°	2.1	210	2.6	0.08	1.40	22	25	4.0	0.20	3.33	21	25	6.1	0.44	7.34	20	23
	2.5	250	2.8	0.10	1.67	22	25	4.3	0.22	3.63	20	23	6.4	0.48	7.92	20	23
	2.8	**280**	**3.0**	**0.11**	**1.85**	**21**	**24**	**4.5**	**0.25**	**4.16**	**21**	**24**	**6.7**	**0.54**	**8.93**	**20**	**24**
	3.0	300	3.2	0.12	2.01	20	23	4.6	0.26	4.39	21	25	6.7	0.54	9.02	21	24
	3.5	350	3.4	0.13	2.12	19	22	4.8	0.28	4.69	21	24	7.0	0.57	9.54	20	23
	3.8	380	3.5	0.13	2.20	18	21	4.9	0.30	4.92	21	24	7.3	0.60	10.06	19	22
270°	2.1	210						4.0	0.26	4.31	22	25	6.1	0.58	9.58	21	24
	2.5	250						4.3	0.28	4.69	20	23	6.4	0.62	10.36	20	23
	2.8	**280**						**4.5**	**0.32**	**5.30**	**21**	**24**	**6.7**	**0.68**	**11.35**	**20**	**23**
	3.1	310						4.6	0.33	5.56	21	24	6.7	0.71	11.81	21	24
	3.5	350						4.8	0.35	5.83	20	23	7.0	0.75	12.49	20	24
	3.8	380						4.9	0.37	6.09	20	23	7.3	0.79	13.16	20	23
360°	2.1	210	2.6	0.14	2.38	22	25	4.0	0.35	5.75	22	25	6.1	0.77	12.85	21	24
	2.5	250	2.8	0.16	2.65	20	23	4.3	0.39	6.43	21	24	6.4	0.84	13.92	20	24
	2.8	**280**	**3.0**	**0.18**	**2.95**	**20**	**23**	**4.5**	**0.42**	**7.08**	**21**	**24**	**6.7**	**0.90**	**14.99**	**20**	**23**
	3.0	300	3.1	0.19	3.22	20	23	4.6	0.45	7.57	21	25	6.7	0.93	15.41	21	24
	3.5	350	3.3	0.20	3.33	19	21	4.8	0.48	8.06	21	24	7.0	0.98	16.27	20	23
	3.8	380	3.5	0.22	3.71	18	21	4.9	0.51	8.55	21	25	7.3	1.03	17.13	19	22

Due to their precipitation rate of approximately 20 mm/hr, we strongly recommend zoning MP800 Nozzles separately from the MP Rotator Standard Nozzles.

PERFORMANCE DATA NOTE FOR ALL CHARTS:

Bold = Recommended Pressure

The MP Rotator Nozzle is designed to maintain matched precipitation after radius adjustment. Optimal pressure for the MP Rotator is 2.8 bar (280 kPa). This can be achieved easily by using the MP Rotator with the Hunter Pro-Spray PRS40 Sprinkler Body, pressure regulated at 2.8 bar (280 kPa).

MP Rotator Standard Nozzles

MP ROTATOR PERFORMANCE DATA

MP-1000
Radius: 2.5 to 4.5 m
Adjustable Arc and Full-Circle
- Maroon: 90° to 210°
- Lt. Blue: 210° to 270°
- Olive: 360°

MP-2000
Radius: 4.0 to 6.4 m
Adjustable Arc and Full-Circle
- Black: 90° to 210°
- Green: 210° to 270°
- Red: 360°

MP-3000
Radius: 6.7 to 9.1 m
Adjustable Arc and Full-Circle
- Blue: 90° to 210°
- Yellow: 210° to 270°
- Grey: 360°

Arc	Pressure bar	Pressure kPa	MP-1000 Radius m	MP-1000 Flow m³/hr	MP-1000 Flow l/min	MP-1000 Precip mm/hr ■	MP-1000 Precip mm/hr ▲	MP-2000 Radius m	MP-2000 Flow m³/hr	MP-2000 Flow l/min	MP-2000 Precip mm/hr ■	MP-2000 Precip mm/hr ▲	MP-3000 Radius m	MP-3000 Flow m³/hr	MP-3000 Flow l/min	MP-3000 Precip mm/hr ■	MP-3000 Precip mm/hr ▲
90°	2.1	210	3.7	0.04	0.64	11	13	5.5	0.09	1.44	12	13	8.2	0.17	2.88	10	12
	2.5	250	4.0	0.04	0.72	11	13	5.8	0.09	1.52	11	13	8.5	0.19	3.11	10	12
	2.8	**280**	**4.1**	**0.05**	**0.80**	**11**	**13**	**6.1**	**0.10**	**1.63**	**11**	**12**	**9.1**	**0.20**	**3.26**	**10**	**11**
	3.0	300	4.3	0.05	0.87	11	13	6.4	0.11	1.74	10	12	9.1	0.21	3.41	10	12
	3.5	350	4.5	0.06	0.95	11	13	6.4	0.11	1.78	11	12	9.1	0.22	3.60	11	12
	3.8	380	4.5	0.06	1.02	12	14	6.4	0.11	1.82	11	12	9.1	0.23	3.83	11	13
180°	2.1	210	3.7	0.08	1.29	11	13	5.2	0.15	2.43	11	13	8.2	0.36	5.99	11	12
	2.5	250	4.0	0.09	1.44	11	13	5.5	0.16	2.69	11	12	8.5	0.39	6.44	11	12
	2.8	**280**	**4.1**	**0.10**	**1.59**	**11**	**13**	**5.8**	**0.18**	**2.92**	**11**	**12**	**9.1**	**0.42**	**6.90**	**10**	**12**
	3.0	300	4.3	0.10	1.67	11	13	6.1	0.20	3.22	11	12	9.1	0.44	7.31	11	12
	3.5	350	4.5	0.12	1.90	11	13	6.4	0.21	3.45	10	12	9.1	0.47	7.73	11	13
	3.8	380	4.5	0.12	1.93	12	13	6.4	0.22	3.60	11	12	9.1	0.49	8.07	12	14
210°	2.1	210	3.7	0.09	1.52	12	13	5.2	0.17	2.84	11	13	8.2	0.42	6.97	11	12
	2.5	250	4.0	0.10	1.71	11	13	5.5	0.19	3.07	11	12	8.5	0.46	7.54	11	13
	2.8	**280**	**4.1**	**0.11**	**1.86**	**11**	**13**	**5.8**	**0.20**	**3.26**	**10**	**12**	**9.1**	**0.49**	**8.03**	**10**	**12**
	3.0	300	4.3	0.12	1.93	11	13	6.1	0.21	3.45	10	11	9.1	0.52	8.53	11	12
	3.5	350	4.5	0.13	2.16	11	13	6.4	0.23	3.71	9	11	9.1	0.55	8.98	11	13
	3.8	380	4.5	0.14	2.24	11	13	6.4	0.23	3.83	10	11	9.1	0.57	9.44	12	14
270°	2.1	210	3.7	0.11	1.82	11	12	5.2	0.22	3.60	11	12	8.2	0.55	8.98	11	12
	2.5	250	4.0	0.12	2.01	10	12	5.5	0.24	3.90	10	12	8.5	0.59	9.66	11	12
	2.8	**280**	**4.1**	**0.14**	**2.39**	**11**	**13**	**5.8**	**0.25**	**4.17**	**10**	**12**	**9.1**	**0.63**	**10.35**	**10**	**12**
	3.0	300	4.3	0.15	2.54	11	13	6.1	0.27	4.43	10	11	9.1	0.66	10.95	11	12
	3.5	350	4.5	0.17	2.73	11	13	6.4	0.28	4.66	9	11	9.1	0.70	11.60	11	13
	3.8	380	4.5	0.17	2.84	11	13	6.4	0.30	4.93	10	11	9.1	0.74	12.20	12	14
360°	2.1	210	3.7	0.16	2.62	12	13	5.2	0.29	4.85	11	13	8.2	0.72	11.94	11	12
	2.5	250	4.0	0.18	2.92	11	13	5.5	0.32	5.19	10	12	8.5	0.78	12.89	11	12
	2.8	**280**	**4.1**	**0.19**	**3.18**	**11**	**13**	**5.8**	**0.34**	**5.61**	**10**	**12**	**9.1**	**0.84**	**13.80**	**10**	**12**
	3.0	300	4.3	0.20	3.34	11	13	6.1	0.36	5.95	10	11	9.1	0.89	14.63	11	12
	3.5	350	4.5	0.23	3.71	11	13	6.4	0.39	6.37	9	11	9.1	0.94	15.43	11	13
	3.8	380	4.5	0.23	3.83	11	13	6.4	0.40	6.59	10	11	9.1	0.98	16.18	12	14

MP-3500
Radius: 9.4 to 10.7 m
Adjustable Arc
- Light Brown: 90° to 210°

90° 180° 210°

Pressure bar	Pressure kPa	90° Radius m	90° Flow m³/hr	90° Flow l/min	90° Precip mm/hr ■	90° Precip mm/hr ▲	180° Radius m	180° Flow m³/hr	180° Flow l/min	180° Precip in/hr ■	180° Precip in/hr ▲	210° Radius m	210° Flow m³/hr	210° Flow l/min	210° Precip in/hr ■	210° Precip in/hr ▲
2.1	210	10.4	0.26	4.28	10	11	10.4	0.51	8.48	9	11	10.4	0.65	10.75	10	12
2.5	250	10.4	0.28	4.58	10	12	10.4	0.60	10.03	11	13	10.4	0.70	11.66	11	13
2.8	**280**	**10.7**	**0.29**	**4.84**	**10**	**12**	**10.7**	**0.65**	**10.83**	**11**	**13**	**10.7**	**0.75**	**12.45**	**11**	**13**
3.0	300	10.7	0.31	5.22	11	13	10.7	0.70	11.73	12	14	10.7	0.80	13.40	12	14
3.5	350	10.7	0.33	5.41	11	13	10.7	0.73	12.15	13	15	10.7	0.85	14.23	13	15
3.8	380	10.7	0.34	5.68	12	14	10.7	0.75	12.41	13	15	10.7	0.90	14.91	13	16

MP Rotator Specialty Nozzles

MP ROTATOR PERFORMANCE DATA

10 mm/hr

MP Corner
Radius: 2.5 to 4.5 m
Adjustable Arc
● Turquoise: 45° to 105°

Arc	Pressure bar	Pressure kPa	Radius m	Flow m^3/hr	Flow l/min
45°	2.1	210	3.5	0.04	0.61
	2.5	250	4.0	0.04	0.68
	2.8	**280**	**4.1**	**0.04**	**0.70**
	3.0	300	4.3	0.04	0.73
	3.5	350	4.4	0.05	0.78
	3.8	380	4.5	0.05	0.81
90°	2.1	210	3.5	0.08	1.27
	2.5	250	4.0	0.08	1.40
	2.8	**280**	**4.1**	**0.09**	**1.44**
	3.0	300	4.3	0.09	1.57
	3.5	350	4.4	0.10	1.67
	3.8	380	4.5	0.10	1.73
105°	2.1	210	3.5	0.09	1.48
	2.5	250	4.0	0.10	1.63
	2.8	**280**	**4.1**	**0.10**	**1.70**
	3.0	300	4.3	0.11	1.83
	3.5	350	4.4	0.12	1.94
	3.8	380	4.5	0.12	2.00

MP ROTATOR PERFORMANCE DATA

- **MP-LCS-515:** Ivory, MP Left Corner Strip
- **MP-RCS-515:** Copper, MP Right Corner Strip
- **MP-SS-530:** Brown, MP Side Strip

	Pressure bar	Pressure kPa	Radius m	Flow m^3/hr	Flow l/min	Precip. mm/hr ■	Precip. mm/hr ▲
MP Left Corner Strip	2.1	210	1.2 x 4.2	0.04	0.64	31	15
	2.5	250	1.4 x 4.4	0.04	0.68	27	13
	2.8	**280**	**1.5 x 4.5**	**0.04**	**0.72**	**26**	**13**
	3.0	300	1.6 x 4.6	0.05	0.79	26	13
	3.5	350	1.7 x 4.7	0.05	0.87	26	13
	3.8	380	1.8 x 4.8	0.05	0.91	25	13
MP Right Corner Strip	2.1	210	1.2 x 4.2	0.04	0.64	31	15
	2.5	250	1.4 x 4.4	0.04	0.68	27	13
	2.8	**280**	**1.5 x 4.5**	**0.04**	**0.72**	**26**	**13**
	3.0	300	1.6 x 4.6	0.05	0.79	26	13
	3.5	350	1.7 x 4.7	0.05	0.87	26	13
	3.8	380	1.8 x 4.8	0.05	0.91	25	13
MP Side Strip	2.1	210	1.2 x 8.4	0.07	1.25	30	15
	2.5	250	1.4 x 8.7	0.08	1.36	27	13
	2.8	**280**	**1.5 x 9.0**	**0.09**	**1.44**	**26**	**13**
	3.0	300	1.6 x 9.3	0.09	1.55	25	13
	3.5	350	1.7 x 9.6	0.10	1.67	24	12
	3.8	380	1.8 x 9.9	0.11	1.79	24	12

MP Rotator Strip Nozzles can be used with both the MP Rotator Standard and MP800 Nozzles, depending on the layout.

PERFORMANCE DATA NOTE FOR ALL CHARTS:

Bold = Recommended Pressure
The MP Rotator Nozzle is designed to maintain matched precipitation after radius adjustment. Optimal pressure for the MP Rotator is 2.8 bar (280 kPa). This can be achieved easily by using the MP Rotator with the Hunter Pro-Spray PRS40 Spray Body, pressure regulated at 2.8 bar (280 kPa).

Field Identification

MP Rotator Nozzles are colour-coded for easy field identification.

MP Rotator Standard Nozzles

10 mm/hr

Radius	2.5 to 4.5 m	4.0 to 6.4 m	6.7 to 9.1 m	9.4 to 10.7 m
Arc				
90° to 210°	**MP-1000-90**	**MP-2000-90**	**MP-3000-90**	**MP-3500-90**
210° to 270°	**MP-1000-210**	**MP-2000-210**	**MP-3000-210**	
360°	**MP-1000-360**	**MP-2000-360**	**MP-3000-360**	

MP Strip Nozzles

Shape	
	MP-LCS-515 1.5 x 4.6 m Left Corner
	MP-RCS-515 1.5 x 4.6 m Right Corner
	MP-SS-530 1.5 x 9.1 m Side Strip

MP Rotator MP800 Nozzles

20 mm/hr

Radius	1.8 to 3.5 m	2.5 to 4.9 m	4.6 to 7.3 m
Arc			
90° to 210°	**MP-800SR-90** Short Radius	**MP-815-90**	**MP-820-90**
210° to 270°		**MP-815-210**	**MP-820-210**
360°	**MP-800SR-360** Short Radius	**MP-815-360**	**MP-820-360**

MP Corner Nozzles

10 mm/hr

Arc	
45° to 105°	**MP-CORNER** 2.5 to 4.5 m

MP Rotator Male-Threaded

Available in all MP Rotator models, except MP-1000-210, MP-3500-90, and MP-800 Family

MP-HT
Male-Threaded

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