

THE IDEAL SPRINKLER
from 4' strips to 30' radius

A Water Conservation Device Brought to you by:



NELSON IRRIGATION CORPORATION



MP ROTATOR®

The MP Rotator. A revolutionary sprinkler setting a new standard for water efficiency in the turf & landscape industry. It is a multi-stream rotor the size of a spray nozzle. It fits any conventional spray head body or shrub adapter, transforming it into a high uniformity, low precipitation rate sprinkler with matched precipitation even after arc and radius adjustment.

A WATER CONSERVATION TOOL

- Multiple rotating streams provide superior uniformity
- Automatic matched precipitation even after arc & radius adjustment
- Low precipitation rate reduces runoff on slopes & tight soils

A FLEXIBLE DESIGN TOOL

- Ideal for 4' strip - 30' spacings — **any model can be combined on the same zone**
- Eliminates the uncertainty associated with nozzle trees and rotor nozzling

PROVEN DURABILITY & RELIABILITY

- Rotator® Technology proven in demanding agricultural conditions since 1987
- One moving part
- “Double-pop” flushes on start-up and shut-down

SIMPLE AND QUICK ADJUSTMENTS

- Easy arc adjustment
- Easy radius adjustment — up to 25%
- No nozzle to change

MP Rotator shown popped up, in operating mode; when watering cycle ends MP Rotator pops down before spray head retracts

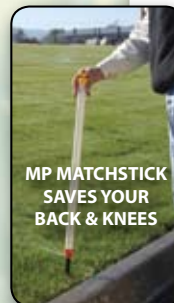
patented “double pop” keeps sprinkler free from external debris

removable inlet filter keeps sprinkler free from internal debris

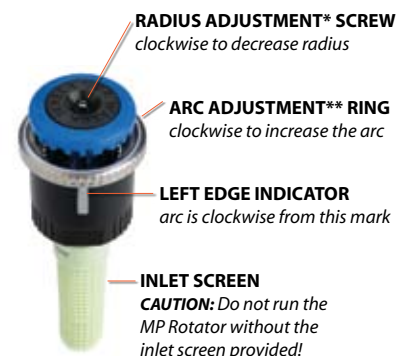
color-code system for identifying models (see page 4)



male thread also available



MP MATCHSTICK SAVES YOUR BACK & KNEES



RADIUS ADJUSTMENT* SCREW
clockwise to decrease radius

ARC ADJUSTMENT RING**
clockwise to increase the arc

LEFT EDGE INDICATOR
arc is clockwise from this mark

INLET SCREEN
CAUTION: Do not run the MP Rotator without the inlet screen provided!

**Built-in slip clutch prevents damage from over adjustment.
**While water is on, use orange tool to engage built-in ratchet; move past the left or right stop until left edge is aligned.*

SAVE WATER — SOLVE PROBLEMS



> NEW SYSTEMS

- Ultimate design flexibility, 4' strip - 30' radius
- Lower installed costs
- Better system efficiency

> REVITALIZE OLD SYSTEMS

- Solve low pressure problems
- Solve coverage problems

> SLOPES & TIGHT SOILS

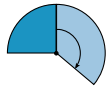


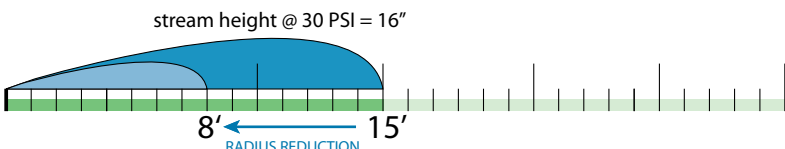



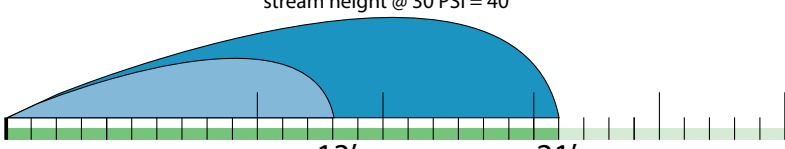



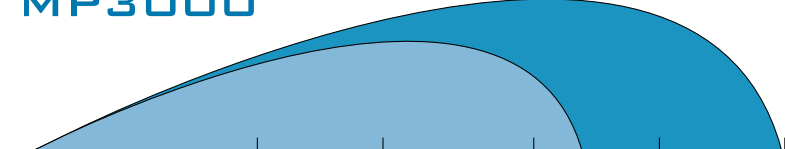



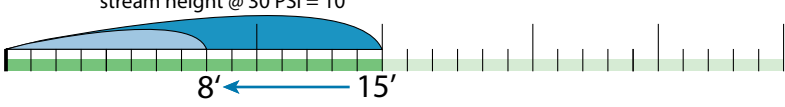
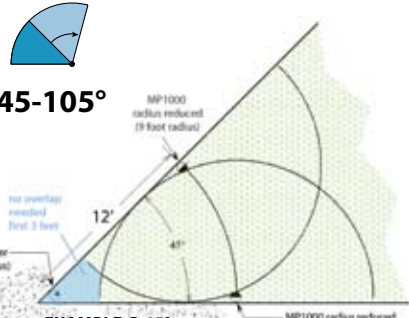
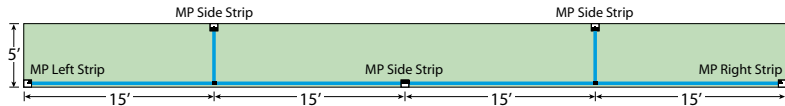






- Low precipitation radically reduces runoff

Compared to fixed-arc sprays and rotors, MP Rotators deliver significant performance advantages, great design flexibility and impressive cost savings. Any of the MP Rotator models can be combined on the same zone and **maintain a matched precipitation rate — even after arc and radius adjustment.**

On existing systems, the MP Rotator's **unique combination of low flow and high uniformity** makes it possible to solve spray head coverage problems — whether the problem is low pressure, too many spray heads on a line or “stretched” spacing.



Maintain Matched Precipitation — Any Model, Any Arc, Any Radius

<p>Specify Model & Arc. Add "T" to Model Name to specify Male Thread.</p> <p>Example: MP2000 90-210</p> <p style="text-align: center;"> <u>MP2000</u> <u>90-210</u> <i>Model</i> <i>Arc</i> </p>	 <p>90-210°</p>	 <p>210-270°</p>	 <p>360°</p>
<h2 style="background-color: #4CAF50; color: white; padding: 5px;">ADJUSTABLE RADIUS</h2>	<h2 style="background-color: #0070C0; color: white; padding: 5px;">ADJUSTABLE ARC</h2>		
<h3 style="color: #0070C0;">MP1000</h3> <p>stream height @ 30 PSI = 16"</p>  <p style="text-align: center;">8' ← RADIUS REDUCTION 15'</p>	<p>MP1000 90-210</p>  <p>Maroon</p>	<p>MP1000 210-270</p>  <p>Light Blue</p>	<p>MP1000 360</p>  <p>Olive</p>
<h3 style="color: #0070C0;">MP2000</h3> <p>stream height @ 30 PSI = 40"</p>  <p style="text-align: center;">13' ← RADIUS REDUCTION 21'</p>	<p>MP2000 90-210</p>  <p>Black</p>	<p>MP2000 210-270</p>  <p>Green</p>	<p>MP2000 360</p>  <p>Red</p>
<h3 style="color: #0070C0;">MP3000</h3> <p>stream height @ 40 PSI = 79"</p>  <p style="text-align: center;">22' ← RADIUS REDUCTION 30'</p>	<p>MP3000 90-210</p>  <p>Blue</p>	<p>MP3000 210-270</p>  <p>Yellow</p>	<p>MP3000 360</p>  <p>Gray</p>
<h3 style="color: #0070C0;">MP CORNER</h3> <p>stream height @ 30 PSI = 10"</p>  <p style="text-align: center;">8' ← RADIUS REDUCTION 15'</p> <p>The MP Corner is designed for tight corners that are difficult to irrigate properly with conventional sprinklers. It has an adjustable arc from 45° to 105°, maintains MPR at any arc, any radius and can be placed on the same zone with any other MP Rotator model.</p>	<p>MP Corner</p>  <p>45-105°</p> <p>Turquoise</p> <p>EXAMPLE @ 45°</p>		
<h3 style="color: #0070C0;">MP STRIP</h3> <p>EXAMPLE WITH TRIANGULAR SPACING</p>  <p>The three new MP Strip models of the MP Rotator family offer an exciting alternative to conventional spray heads to meet the challenges of irrigating strip areas. Strip models offer improved uniformity and excellent wind-fighting ability. The reduced flow rate compared to conventional sprays makes longer runs and/or fewer zones possible.</p>	<p>MP LEFT STRIP</p>   <p>Ivory</p>	<p>MP SIDE STRIP</p>   <p>Brown</p>	<p>MP RIGHT STRIP</p>   <p>Copper</p>

Arc Setting	MP1000*					MP2000*					MP3000**				
	PSI	Rad. Ft.	GPM	in./hr.	in./hr.	PSI	Rad. Ft.	GPM	in./hr.	in./hr.	PSI	Rad. Ft.	GPM	in./hr.	in./hr.
90°	25	-	-	-	-	25	17	0.31	0.41	0.48	25	25	0.69	0.43	0.49
	30	12	0.16	0.43	0.50	30	18	0.33	0.39	0.45	30	27	0.74	0.39	0.45
	35	13	0.18	0.40	0.46	35	19	0.37	0.39	0.46	35	28	0.80	0.39	0.45
	40	14	0.19	0.39	0.45	40	20	0.40	0.39	0.44	40	30	0.86	0.37	0.43
	45	14	0.20	0.39	0.45	45	21	0.42	0.37	0.42	45	30	0.91	0.39	0.45
	50	14	0.21	0.38	0.43	50	22	0.44	0.35	0.40	50	30	0.96	0.41	0.47
180°	25	-	-	-	-	25	16	0.58	0.44	0.50	25	25	1.44	0.44	0.51
	30	12	0.32	0.43	0.50	30	17	0.63	0.42	0.49	30	27	1.58	0.42	0.48
	35	13	0.35	0.40	0.46	35	18	0.69	0.41	0.47	35	28	1.70	0.42	0.48
	40	14	0.37	0.39	0.45	40	19	0.74	0.39	0.45	40	30	1.82	0.39	0.45
	45	14	0.40	0.39	0.45	45	20	0.78	0.38	0.43	45	30	1.93	0.41	0.48
	50	15	0.41	0.38	0.43	50	21	0.83	0.36	0.41	50	30	2.04	0.44	0.50
210°	25	-	-	-	-	25	16	0.68	0.44	0.50	25	25	1.68	0.44	0.51
	30	12	0.37	0.43	0.50	30	17	0.74	0.42	0.49	30	27	1.84	0.42	0.48
	35	13	0.41	0.40	0.46	35	18	0.80	0.41	0.47	35	28	1.99	0.42	0.48
	40	14	0.43	0.39	0.45	40	19	0.86	0.39	0.45	40	30	2.12	0.39	0.45
	45	14	0.46	0.39	0.45	45	20	0.92	0.38	0.43	45	30	2.25	0.41	0.48
	50	15	0.48	0.38	0.43	50	21	0.97	0.36	0.41	50	30	2.37	0.43	0.50
270°	25	-	-	-	-	25	16	0.87	0.44	0.50	25	25	2.19	0.45	0.52
	30	12	0.48	0.43	0.50	30	17	0.95	0.42	0.49	30	27	2.37	0.42	0.48
	35	13	0.54	0.40	0.46	35	18	1.03	0.41	0.47	35	28	2.55	0.42	0.48
	40	14	0.57	0.39	0.45	40	19	1.10	0.39	0.45	40	30	2.73	0.39	0.45
	45	14	0.60	0.39	0.45	45	20	1.17	0.38	0.43	45	30	2.89	0.41	0.48
	50	15	0.63	0.38	0.43	50	21	1.23	0.36	0.41	50	30	3.06	0.44	0.50
360°	25	-	-	-	-	25	16	1.16	0.44	0.50	25	25	2.88	0.44	0.51
	30	12	0.65	0.43	0.50	30	17	1.27	0.42	0.49	30	27	3.15	0.42	0.48
	35	13	0.71	0.40	0.47	35	18	1.37	0.41	0.47	35	28	3.40	0.42	0.48
	40	14	0.75	0.39	0.46	40	19	1.47	0.39	0.45	40	30	3.64	0.39	0.45
	45	14	0.80	0.39	0.45	45	20	1.56	0.38	0.43	45	30	3.86	0.41	0.48
	50	15	0.84	0.38	0.44	50	21	1.64	0.36	0.41	50	30	4.07	0.44	0.50
	55	15	0.87	0.37	0.43	55	21	1.70	0.37	0.43	55	30	4.27	0.46	0.53

*To obtain full radius reduction for the MP1000 and MP2000, operate at a maximum of 30 PSI. ** When operating the MP3000 at full radius reduction maintain a minimum pressure of 40 PSI to assure reliable operation. Radius measured on a 4" high riser. Precipitation rates are based on head-to-head throw coverage.

Arc Setting	MP CORNER			MP LEFT STRIP				MP SIDE STRIP				MP RIGHT STRIP			
	PSI	Rad. Ft.	GPM	PSI	Unadjusted Radius GPM	Reduced Radius GPM	Precip.*** Rate in/hr	PSI	Unadjusted Radius GPM	Reduced Radius GPM	Precip.*** Rate in/hr	PSI	Unadjusted Radius GPM	Reduced Radius GPM	Precip.*** Rate in/hr
45°	25	-	-	30	.19	.14	.49	30	.38	.27	.49	30	.19	.14	.49
	30	12	0.17	35	.21	.15	.49	35	.41	.30	.49	35	.21	.15	.49
	35	13	0.18	40	.22	.16	.48	40	.44	.32	.48	40	.22	.16	.48
	40	14	0.19	45	.23	.17	.48	45	.47	.34	.48	45	.23	.17	.48
	45	14	0.21	50	.25	.18	.48	50	.49	.36	.48	50	.25	.18	.48
	55	15	0.23	55	.26	.19	.48	55	.51	.38	.48	55	.26	.19	.48
90°	25	11	0.31	30 PSI 				30 PSI 				30 PSI 			
	30	12	0.34												
	35	13	0.36												
	40	14	0.39												
	45	14	0.41												
	50	15	0.43												
105°	25	11	0.36	50 PSI 				50 PSI 				50 PSI 			
	30	12	0.39												
	35	13	0.42												
	40	14	0.45												
	45	14	0.48												
	50	15	0.51												

***The slightly higher precipitation rate of the MP Strips is intentional. It compensates for the significant proportion of edge watering in strip applications.

MPR40 & MPR POP-UP BODIES



THE MPR40 SPRINKLER BODY

- Built-in regulator set at 40 psi
- New easy-to identify gray cap
- Factory-installed check valve



Two-piece ratchet design facilitates quick and easy adjustability for both the MPR40 and the MPR sprinkler bodies.

Based on well known pop-up body technology, the MPR40 body provides 40 psi pressure regulation and a check valve. This delivers the water saving function of a drain check valve at a pressure that will give full range performance from the MP Rotator. The MPR40 body and the non-regulated or checked MPR body are high-quality sprinkler bodies made specifically to complement the MP Rotator.

MODELS

MPR40 SPRINKLER BODY* WITH 40 PSI REGULATOR & CHECK VALVE (GRAY CAP)

- MPR40-00 Shrub
- MPR40-04CV 4" Pop-up
- MPR40-06CV 6" Pop-up
- MPR40-12CV 12" Pop-up



MPR SPRINKLER BODY* WITHOUT REGULATOR & CHECK VALVE (BLACK CAP)

- MPR-04 4" Pop-up
- MPR-06 6" Pop-up
- MPR-12 12" Pop-up



DIMENSIONS

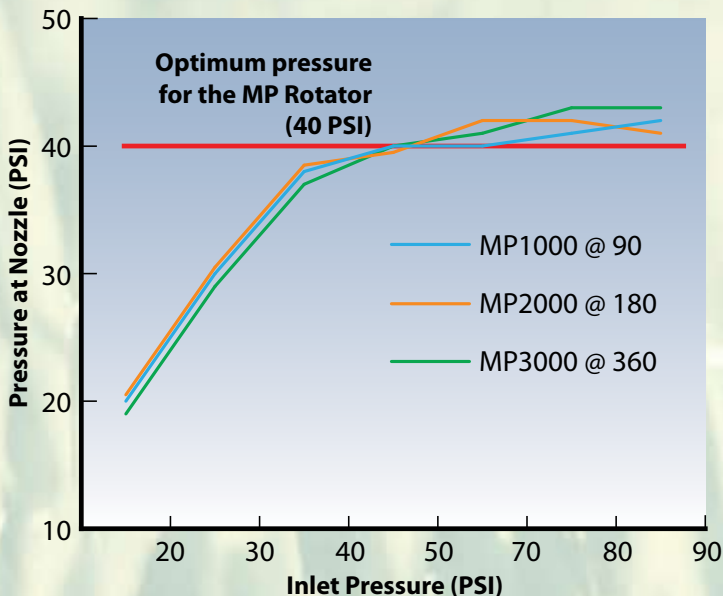
- Overall height:
4" = 5 7/8"
6" = 8 3/4"
12" = 16 1/8"
- 1/2" female inlet NPT
- Exposed diameter: 2 1/4"

OPERATING SPECIFICATIONS

- **Recommended pressure range:**
For MPR model 15-100 PSI;
For MPR40 model 45-100 PSI
- **Flow-by:** 0 at 10 PSI or greater;
0.1 GPM otherwise
- **Check height:** Up to 14' elevation head

OPTIONS AVAILABLE

- Field-installed black rubber cover
- Field-installed reclaimed water identification snap-on cover



PRESSURE REGULATION



Nelson offers a full line of pressure regulating devices to meet the needs of a variety of irrigation applications.

1/2" MINI SERIES — 0.15 to 5 GPM

Pressure Regulating Options: 20, 30, 40 & 50 PSI

Mini Regulator (MR)



Pressure Regulator only

Mini Drain Check (MDC)



Drain Check* only

Mini Regulator Drain Check (MRDC)



Combination Pressure Regulator and Drain Check*

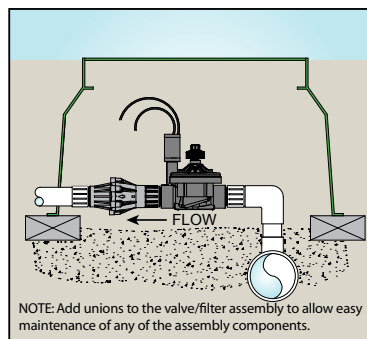
*The Drain Check feature prevents drain down through the low heads.

3/4" & 1" PR SERIES PRESSURE REGULATORS 0.25 to 15 GPM

Pressure Regulating Options: 20, 25, 30, 40 & 50 PSI



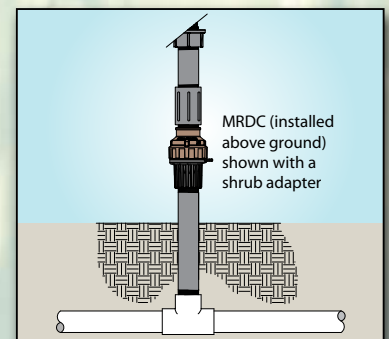
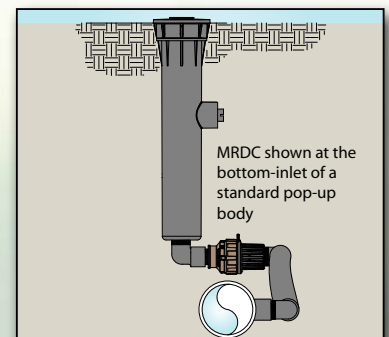
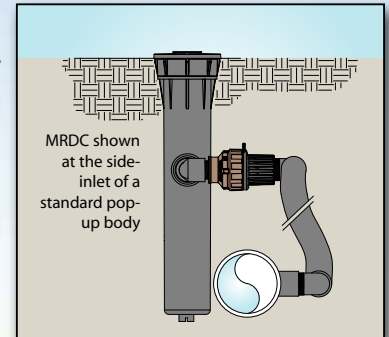
Pressure Regulator only



APPLICATION EXAMPLE: Placed downstream of the valve and/or filter assembly, the Nelson pressure regulator can provide years of trouble-free pressure control.

TECHNICAL TIPS

Add 5 PSI extra to the regulated pressure to allow for pressure loss through the regulator. For example, the minimum design pressure for a 20 PSI pressure regulator is 25 PSI.





THE MP ROTATOR[®] *saves water compared to conventional sprays & rotors*

WE TAKE THIS CLAIM VERY SERIOUSLY

*The water savings potential is real ...
it is big ... and the MP Rotator[®] is the future.*

The multi-trajectory, rotating streams of the MP Rotator apply water more slowly and uniformly than conventional sprays and rotors — especially after arc and radius adjustment. **Independent water audits now document water savings of 30% when conventional sprays are replaced with MP Rotators.** Additional water-saving advantages include better wind-resistance, less misting and virtually no run-off.



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WARRANTY AND DISCLAIMER: Nelson Irrigation Corporation MP Rotators[®] are warranted for one year from date of original sale to be free of defective materials and workmanship when used within the working specifications for which the products were designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair of defective parts. The manufacturer's liability under this warranty is limited solely to replacement or repair of defective parts and the manufacturer will not be liable for any crop or other consequential damages resulting from defects or breach of warranty. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES AND OF ALL OTHER OBLIGATIONS OR LIABILITIES OF MANUFACTURER. No agent, employee or representative of the manufacturer has authority to waive, alter or add to the provisions of this warranty, nor to make any representations or warranty not contained herein. THE SELLER UNDERTAKES NO RESPONSIBILITY FOR THE QUALITY OF THE GOODS EXCEPT AS OTHERWISE PROVIDED IN THIS CONTRACT, AND THE SELLER ASSUMES NO RESPONSIBILITY THAT THE GOODS WILL BE FIT FOR ANY PARTICULAR PURPOSE FOR WHICH YOU MAY BE BUYING THESE GOODS, EXCEPT AS OTHERWISE PROVIDED IN THIS CONTRACT.

This product may be covered by one or more of the following U.S. Patent Nos. 4842201, 4867379, 4898332, 4967961, 5058806, 5288022, 6244521, 6499672, 6651905, 6688539, 6736332, 7032836 and other U.S. Patents pending or corresponding issued or pending foreign patents.