

THE IDEAL SPRINKLER

from 4' strips to 30' radius

A Water Conservation Device Brought to you by:



NELSON IRRIGATION CORPORATION



MP ROTATOR®

patented
"double pop"
keeps sprinkler
free from
external debris

removable
inlet filter keeps
sprinkler free
from internal
debris

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

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

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

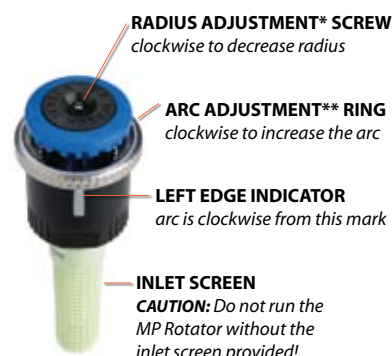
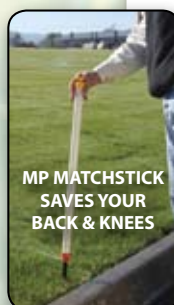
- Ideal for 4' strip - 30' spacings — **any model can be combined on the same zone**
- Eliminates the uncertainty associated with nozzle trees and rotor nozzling

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



*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

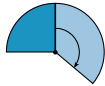
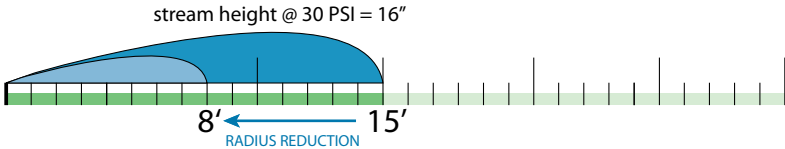
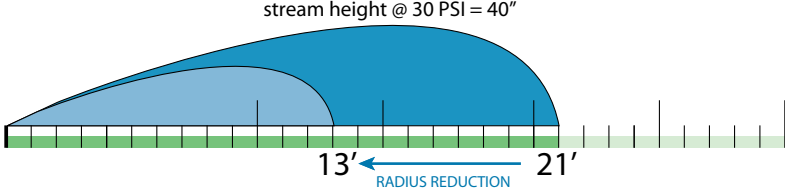
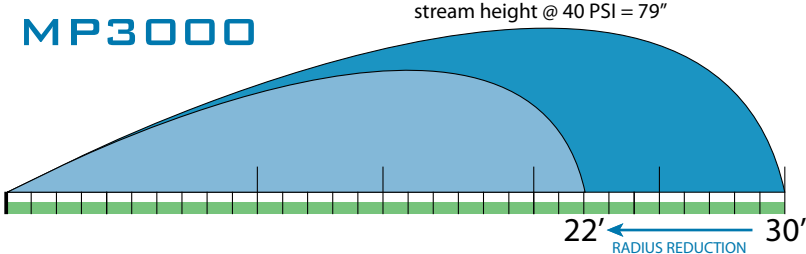
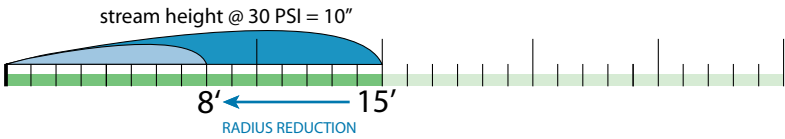
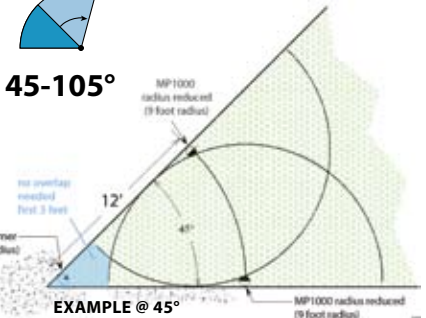
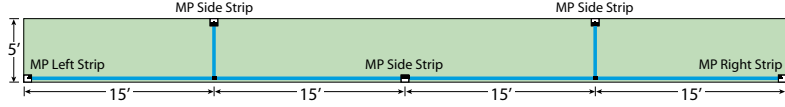
- Low precipitation radically reduces runoff

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.

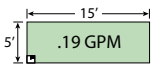
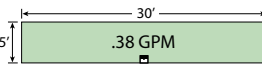
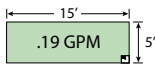
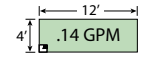
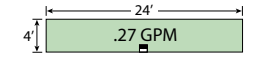
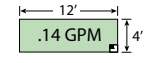
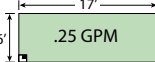
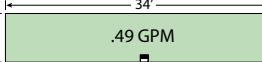
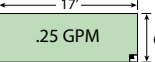
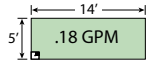
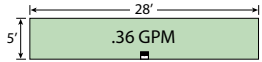
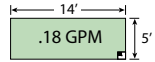


Maintain Matched Precipitation — Any Model, Any Arc, Any Radius

Specify Model & Arc. Add "T" to Model Name to specify Male Thread. Example: MP2000 90-210 Model Arc		 90-210°	 210-270°	 360°
ADJUSTABLE RADIUS		ADJUSTABLE ARC		
MP1000 		MP1000 90-210  Maroon	MP1000 210-270  Light Blue	MP1000 360  Olive
MP2000 		MP2000 90-210  Black	MP2000 210-270  Green	MP2000 360  Red
MP3000 		MP3000 90-210  Blue	MP3000 210-270  Yellow	MP3000 360  Gray
MP CORNER  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.		MP Corner  45-105°  Turquoise		
MP STRIP EXAMPLE WITH TRIANGULAR SPACING  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.		MP LEFT STRIP   Ivory	MP SIDE STRIP   Brown	MP RIGHT STRIP   Copper

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	-	-	-	-	MAROON = 90-210°	25	17	0.31	0.41	0.48	BLACK = 90-210°	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°	55	15	0.22	0.37	0.43		55	22	0.47	0.37	0.43		55	30	1.01	0.43	0.50
	25	-	-	-	-	LT. BLUE = 210-270°	25	16	0.58	0.44	0.50	BLUE = 90-210°	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°	55	15	0.43	0.37	0.43		55	21	0.85	0.37	0.43		55	30	2.13	0.46	0.53
	25	-	-	-	-	GREEN = 210-270°	25	16	0.68	0.44	0.50	YELLOW = 210-270°	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°	55	15	0.50	0.37	0.43		55	21	1.01	0.37	0.43		55	30	2.49	0.46	0.53
	25	-	-	-	-	RED = 360°	25	16	0.87	0.44	0.50	GRAY = 360°	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°	55	15	0.66	0.37	0.43		55	21	1.30	0.37	0.43		55	30	3.22	0.46	0.53
	25	-	-	-	-	OLIVE = 360°	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.

MP CORNER				MP LEFT STRIP				MP SIDE STRIP				MP RIGHT STRIP			
Arc Setting	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	12	0.17	30	.19	.14	.49	30	.38	.27	.49	30	.19	.14	.49
	35	13	0.18	35	.21	.15	.49	35	.41	.30	.49	35	.21	.15	.49
	40	14	0.19	40	.22	.16	.48	40	.44	.32	.48	40	.22	.16	.48
	45	14	0.21	45	.23	.17	.48	45	.47	.34	.48	45	.23	.17	.48
	50	15	0.22	50	.25	.18	.48	50	.49	.36	.48	50	.25	.18	.48
 90°	55	15	0.23	55	.26	.19	.48	55	.51	.38	.48	55	.26	.19	.48
	25	11	0.31												
	30	12	0.34												
	35	13	0.36												
	40	14	0.39												
	45	14	0.41												
 105°	50	15	0.43												
	55	15	0.46												
	25	11	0.36												
	30	12	0.39												
	35	13	0.42												
	40	14	0.45												

***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

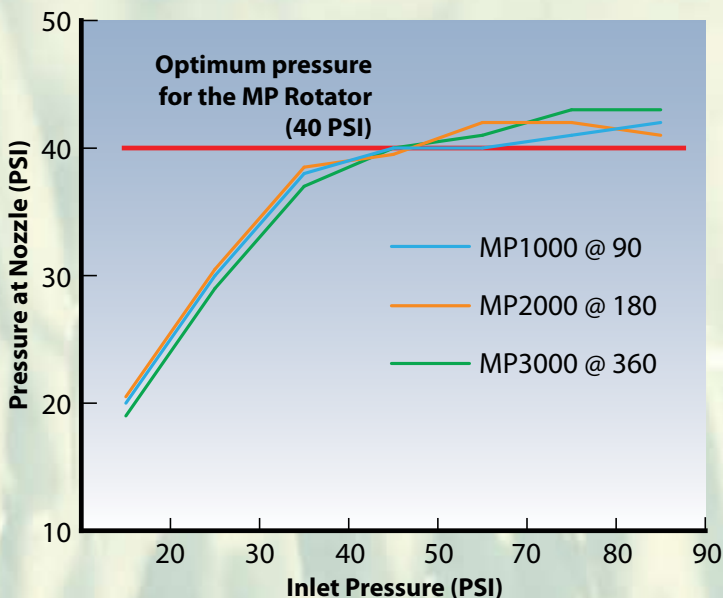
- Overall height:
4" = 5 ⁷/₈"
6" = 8 ³/₄"
12" = 16 ¹/₈"
- 1/2" female inlet NPT
- Exposed diameter: 2 1/4"

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*

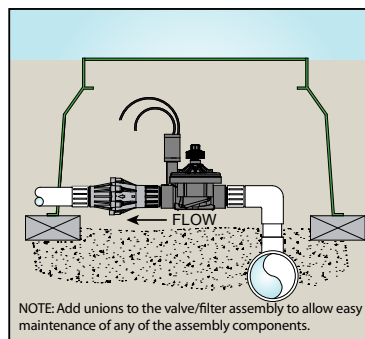
**The Drain Check feature prevents drain down through the low heads.*

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

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



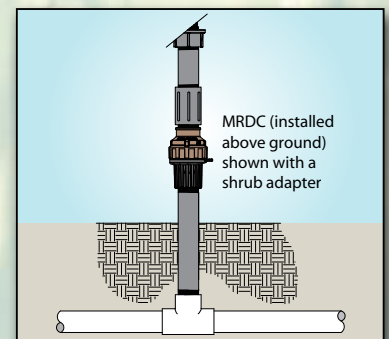
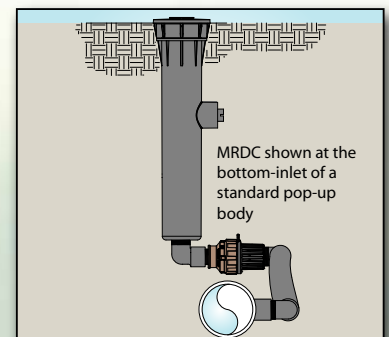
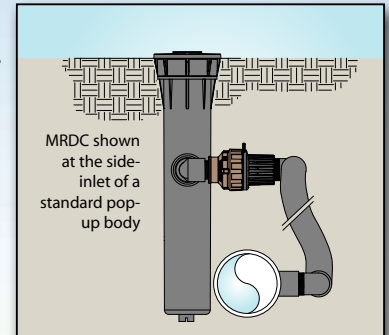
Pressure Regulator only



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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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.