

*"Designing a commercial irrigation project has never been easier. It is now possible to create a single zone with a wide range of part-circle and full-circle sprinklers using head-to-head spacing from 13-ft. up to 35-ft. This is possible by using the new Rain Bird® Rotary Nozzles and the 5000 Series Rotor MPR Nozzles. The reduced flow rate of Rotary Nozzles allows the designer to either use smaller control valves or create zones that cover more area."*

**Mark A. Little**  
President,  
The Little Company, Inc.  
Burnt Hills, NY

*"We are not only able to save our new service customers money in renovation costs, they are also saving water."*

**Jean Singleton**  
Service Manager  
Naturescape Design, Inc.  
Cary, IL

*"The Rain Bird Rotary Nozzle provides a cost effective solution to the age-old problem of mid-range coverage without resorting to a completely different head. The Rain Bird Rotary Nozzle is also a cost effective replacement for out-of-date stream rotors that are still in use."*

**Steven Kaikkonen**  
Irrigation Service Manager  
Water Works  
Madison, AL



## The Intelligent Use of Water™

At Rain Bird, we believe it is our responsibility to develop products and technologies that use water efficiently. Our commitment also extends to education, training and services for our industry and our communities.

The need to conserve water has never been greater. We want to do even more, and with your help, we can. Visit [www.rainbird.com](http://www.rainbird.com) for more information about The Intelligent Use of Water.™



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**Install a new pattern of efficiency  
from 13 to 24 feet.**



# Install Confidence.<sup>®</sup> Install Rain Bird<sup>®</sup> Rotary Nozzles.



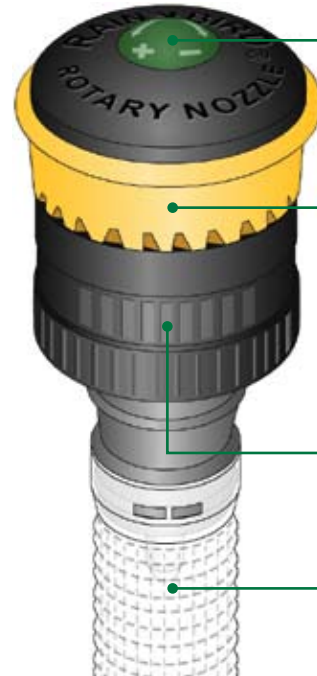
Rain Bird<sup>®</sup> Rotary Nozzles improve your productivity, while managing water wisely. Rotary Nozzles feature a low precipitation rate of 0.60 in/hr and are designed to fit on Rain Bird spray heads.

- **Fewer zones, faster installs** — with approximately 60% less flow than conventional spray nozzles, Rotary Nozzles allow more heads per zone, reducing overall system complexity and cost.
- **Efficient water distribution** — rotating streams uniformly deliver water at a low precipitation rate, significantly reducing run-off and erosion.
- **Eliminate dry spots** — expanded radius and low flow rate allow for easy retrofit to solve existing problems.
- **Design flexibility** — can be zoned with Rain Bird 5000/5000 Plus MPR Rotor Nozzles, allowing MPR designs from 13 to 35 feet.

For more information, contact your authorized Rain Bird distributor, or visit [www.rainbird.com/rotarynozzles](http://www.rainbird.com/rotarynozzles).

## Rotary Nozzle

## Features & Benefits



### Radius Adjustment Slot

- Uses a standard flathead screwdriver
- Plug color designates arc/pattern

### Rotary Deflector

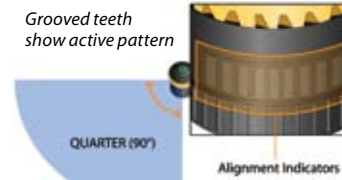
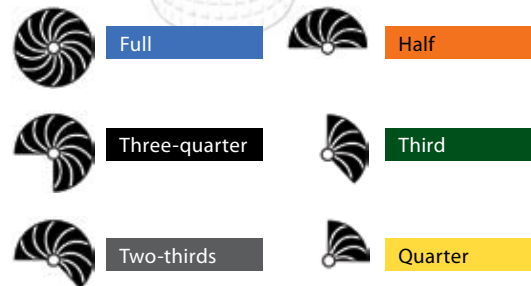
- Colored deflector makes distance of throw easy to identify
  - Black: 13'-18' adjustable radius
  - Yellow: 17'-24' adjustable radius

### Pattern and Alignment Indicators

### Replaceable Screen

### Easy Arc/Pattern Identification:

Color-coded radius reduction plugs



Added labeling for Third, Two-thirds and Three-quarters patterns

### R13-18 Series (Black Deflector)

Arc	Pressure psi	Radius ft.	Flow GPM	Precip In/h	Precip In/h
R13-18F	20	13	1.31	0.75	0.86
	25	14	1.46	0.67	0.77
	30	16	1.60	0.61	0.70
	35	16	1.75	0.61	0.70
	40	17	1.85	0.61	0.70
	45	18	1.96	0.61	0.70
R13-18TQ	20	13	0.98	0.75	0.86
	25	14	1.10	0.67	0.77
	30	16	1.20	0.61	0.70
	35	16	1.30	0.61	0.70
	40	17	1.39	0.61	0.70
	45	18	1.47	0.61	0.70
R13-18TT	20	13	0.87	0.75	0.86
	25	14	0.97	0.67	0.77
	30	16	1.07	0.61	0.70
	35	16	1.15	0.61	0.70
	40	17	1.23	0.61	0.70
	45	18	1.31	0.61	0.70
R13-18H	20	13	0.44	0.75	0.86
	25	14	0.49	0.67	0.77
	30	16	0.53	0.61	0.70
	35	16	0.86	0.61	0.70
	40	17	0.62	0.61	0.70
	45	18	0.65	0.61	0.70
R13-18T	20	13	0.44	0.75	0.86
	25	14	0.49	0.67	0.77
	30	16	0.53	0.61	0.70
	35	16	0.58	0.61	0.70
	40	17	0.62	0.61	0.70
	45	18	0.65	0.61	0.70
R13-18Q	20	13	0.33	0.75	0.86
	25	14	0.37	0.67	0.77
	30	16	0.40	0.61	0.70
	35	16	0.43	0.61	0.70
	40	17	0.46	0.61	0.70
	45	18	0.49	0.61	0.70
R13-18TT	50	18	1.38	0.61	0.70
	55	18	1.44	0.61	0.70
	55	18	0.72	0.61	0.70
	55	18	0.72	0.61	0.70
	55	18	0.72	0.61	0.70
	55	18	0.72	0.61	0.70

### R17-24 Series (Yellow Deflector)

Arc	Pressure psi	Radius ft.	Flow GPM	Precip In/h	Precip In/h
R17-24F	20	17	2.45	0.79	0.92
	25	19	2.74	0.71	0.82
	30	21	3.00	0.65	0.75
	35	22	3.24	0.65	0.75
	40	23	3.46	0.65	0.75
	45	23	3.67	0.65	0.75
R17-24TQ	20	17	1.84	0.79	0.92
	25	19	2.05	0.71	0.82
	30	21	2.25	0.65	0.75
	35	22	2.43	0.65	0.75
	40	23	2.60	0.65	0.75
	45	23	2.76	0.65	0.75
R17-24TT	20	17	1.63	0.79	0.92
	25	19	1.83	0.71	0.82
	30	21	2.00	0.65	0.75
	35	22	2.16	0.65	0.75
	40	23	2.31	0.65	0.75
	45	23	2.45	0.65	0.75
R17-24H	20	17	1.22	0.79	0.92
	25	19	1.37	0.71	0.82
	30	21	1.50	0.65	0.75
	35	22	1.62	0.65	0.75
	40	23	1.73	0.65	0.75
	45	23	1.84	0.65	0.75
R17-24T	20	17	0.82	0.79	0.92
	25	19	0.91	0.71	0.82
	30	21	1.00	0.65	0.75
	35	22	1.08	0.65	0.75
	40	23	1.15	0.65	0.75
	45	23	1.22	0.65	0.75
R17-24Q	20	17	0.61	0.79	0.92
	25	19	0.68	0.71	0.82
	30	21	0.75	0.65	0.75
	35	22	0.81	0.65	0.75
	40	23	0.87	0.65	0.75
	45	23	0.92	0.65	0.75
R17-24TT	50	24	2.58	0.65	0.75
	55	24	2.71	0.65	0.75
	55	24	2.03	0.65	0.75
	55	24	2.03	0.65	0.75
	55	24	2.03	0.65	0.75
	55	24	2.03	0.65	0.75

**Note:** Rotary Nozzles tested on 4" pop-ups. Performance data taken in zero wind conditions.

■ Square spacing based on 50% diameter of throw.  
▲ Triangular spacing based on 50% diameter of throw.

Layout using square or triangular head-to-head (50%) spacing. Single row applications are not recommended. Do not reduce radius below 13' on the R13-18 model and below 17' on the R17-24 model.

Installation on Rain Bird 1800<sup>®</sup>-SAM Spray Heads recommended in sandy environments.