

# Precision™ Series Rotating Nozzles

- Radius: 14'-26' (4,3-8,0m)
- Operating Pressure Range: 20-75 psi (1,4-5,2 Bar)
- 45°-360° Arc Settings
- Fit Toro® or Irritrol®, Rain Bird® and Hunter® Spray Bodies

Based off the design of the world's leading gear-driven rotor for golf applications, the Precision Series Rotating Nozzle is powered by a proven gear drive and delivers wind resistant, multi-stream, multi-trajectory patterns.

Female-threaded  
PRN-A



Male-threaded  
PRN-TA



Female-threaded  
PRN-F



Male-threaded  
PRN-TF



PRN  
Adjustment  
Tool

## Features & Benefits

### Gear-Driven

Utilizes a proven planetary gear drive, variable stator and turbine to rotate the nozzle.

### Fewer Models

Only two male-threaded nozzles and two female-threaded nozzles are required to cover radius range from 14-26 feet (4,3m-8,0m) and arc range from 45-360°.

### Matched Precipitation Rate of 0.55"/hr. (14 mm/hr.)

These nozzles deliver water more slowly and evenly than standard spray nozzles. The precipitation rate of 0.55"/hr. (14 mm/hr.) helps prevent excess run times often set to stay within watering windows.

### Consistent Speed of Rotation

The gear drive mechanism delivers a consistent speed of rotation regardless of system pressure and prevents product stalling at low pressure.

## Water Management Highlight



Precision Series Rotating Nozzles supply matched precipitation with any arc and any radius from 14 to 26 feet (4,3m-8,0m). Water is applied slowly and evenly to reduce runoff and wasted water.

## Step-Up™ Technology



Step-Up™ Technology is designed to deliver high uniformity with matched precipitation for in-close watering all the way out to the furthest radius point. The unique "steps" create 15 streams, each designed to cover an area of the pattern.

## Specifications

### Operating Specifications

- Radius: 14'-26' (4,3-7,9m)
- Operating pressure range: 20-75 psi (1,4-5,2 Bar)
- Recommended Pressure: 40-50 psi (2,8-3,5 Bar)
- Flow Rate: 0.17-3.68 GPM (1,4-14 LPM)

### Additional Features

- 15 unique streams with different trajectories
- Maximum height of 20° trajectory to fight through wind
- Threads onto nearly all sprayheads and shrub adapters (male or female)
- Pre-attached screen for easy installation
- Radius reduction up to 25% by turning set screw 90°
- Color coded to identify adjustable or full circle
- Precipitation rate = 0.55"/hr. (14 mm/hr.) on square spacing plans
- Maintains precipitation rate as radius is reduced
- Matched precipitation from 14-26 feet (4,3-7,9m)
- Matched precipitation from 20-75 psi (1,4-5,2 Bar)
- Adjustable by hand or with included tool
- Consistent speed of rotation not affected by pressure

### Warranty

- Five years

### Precision Series Rotating Nozzle Model List

Male Threaded	Description
• PRN-TA	Toro Threaded, 14-26 feet (4,3-7,9m), Adjustable from 45°-270°
• PRN-TF	Toro Threaded, 14-26 feet (4,3-7,9m), Full-Circle
Female Threaded	Description
• PRN-A	Threaded, 14-26 feet (4,3-7,9m), Adjustable from 45°-270°
• PRN-F	Threaded, 14-26 feet (4,3-7,9m), Full-Circle

## PRN Visual Arc Adjustment



The unique adjustment method allows for pre-setting of arc by hand or tool before the nozzle is installed. Visual indicators allow the user to quickly adjust the arc pattern to the desired arc from 45-270°. The adjustment band can be adjusted by hand or with the pre-included tool.

### Performance Data—Precision™ Series Rotating Nozzles—US

Arc	PSI	GPM	Radius	Precip. Rate	
				■ (in./hr.)	▲ (in./hr.)
45°	20	0.17	14.0	0.67	0.77
	30	0.19	15.0	0.65	0.75
	40	0.25	17.0	0.67	0.77
	50	0.31	18.5	0.70	0.81
	60	0.35	19.5	0.71	0.82
90°	20	0.43	22.0	0.68	0.79
	30	0.49	23.5	0.62	0.71
	40	0.62	20.5	0.57	0.66
	50	0.75	22.5	0.57	0.66
	60	0.82	23.5	0.57	0.66
120°	20	0.92	25.0	0.57	0.65
	30	0.48	16.4	0.69	0.79
	40	0.57	17.5	0.72	0.83
	50	0.78	20.2	0.55	0.64
	60	0.97	22.5	0.55	0.64
180°	75	1.07	23.5	0.56	0.65
	20	0.83	15.0	0.71	0.82
	30	0.94	17.0	0.63	0.72
	40	1.22	20.5	0.56	0.65
	50	1.46	22.5	0.56	0.64
240°	60	1.61	24.0	0.54	0.62
	75	1.81	26.0	0.52	0.60
	20	1.12	15.0	0.72	0.83
	30	1.27	17.0	0.63	0.73
	40	1.56	20.0	0.56	0.65
270°	50	1.80	21.5	0.56	0.65
	60	1.95	22.5	0.56	0.64
	75	2.20	24.0	0.55	0.64
	20	1.08	14.0	0.71	0.81
	30	1.23	16.0	0.62	0.71
360°	40	1.62	19.0	0.57	0.66
	50	2.00	21.5	0.55	0.64
	60	2.26	23.0	0.55	0.63
	75	2.60	25.0	0.53	0.61
	20	1.81	15.0	0.77	0.89
360°	30	2.00	17.2	0.65	0.75
	40	2.56	20.9	0.56	0.65
	50	3.09	22.9	0.57	0.65
	60	3.34	23.8	0.57	0.66
	75	3.68	25.6	0.54	0.62

Nozzle data subject to change.

### Specifying Information—Precision Series Rotating Nozzle

PRN-XX		
Model	Thread	Model
<b>PRN</b>	<b>X</b>	<b>X</b>
PRN—Precision Rotating Nozzle	T—Male Thread Blank—Female Thread	A—Adjustable arc F— Full-circle
Example: A male threaded Precision Series Rotating nozzle with a 24' (7,31m) radius and a 180° arc would be specified as: <b>PRN-TA</b> A female threaded Precision Series Rotating nozzle with a 20' (6,1)radius and 360° arc would be specified as: <b>PRN-F</b>		