

**TORO.**

Count on it.

# Precision™ Series Spray Nozzle

Sprays

Male- or Female-threaded Nozzles  
Fit Toro®, Irritrol® Rain Bird® and  
Hunter® Spray Bodies



5' (1,5m)

8' (2,4m)



10' (3,0m)



12' (3,7m)

15' (4,6m)



Specialty Arcs

*Toro's new Precision Series Spray Nozzles are the most complete and efficient spray nozzle line available to help irrigation professionals manage water use, eliminate runoff and reduce customer water bills.* The Precision Spray nozzles 1"/hr precipitation rate ensures that water is applied more slowly and evenly without sacrificing landscape health. These nozzles are available in a wide selection of arcs and radii, as well as male and female threads, making them ideal for large scale installations and retrofits.

## Features & Benefits

### Patented H<sub>2</sub>O Chip Technology

Using patented H<sub>2</sub>O chip technology – and no moving parts – each Precision Series Spray nozzles creates one or more high frequency oscillating streams to achieve the desired arc and radius with 1/3 less water usage.

### Maximize Irrigation Efficiency

Precision Spray nozzles deliver an industry first 1"/hr (25mm/hr) precipitation rate, which better matches soil infiltration rate. This lower precipitation rate, along with high distribution uniformity make this nozzles family the most efficient nozzle from 5'-15' (1,5-4,6m).

### Design and Retrofit Effectiveness

The lower flow rate of Precision Series spray nozzles maximizes design efficiency and saves on overall material costs by using fewer valves and less controller stations. In addition, existing systems with low pressure can be fixed with a simple retrofit of the existing high-flow nozzle.

### Third-Party Performance Validation

Precision Series Spray nozzles have been tested and validated in the field and at the Center for Irrigation Technology (CIT).



# Precision™ Series Spray Nozzle

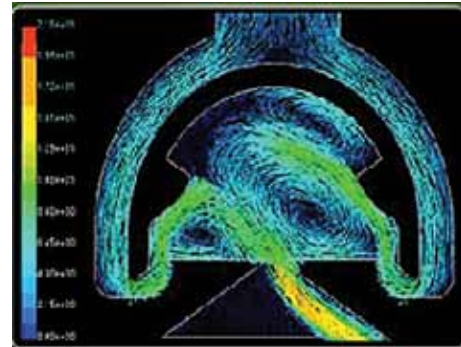
## The Patented H<sup>2</sup>O Chip

No Moving or Sonic Welded Parts



Assures no variation at the end of the water arc for better edge definition and consistent, reliable performance.

## Fluidics Technology



Water expands and collapses inside the H<sup>2</sup>O Chip created high-frequency oscillating streams which allow for distance of throw using 1/3 less flow.

## Matched Precipitation Rate even after 25% Radius Reduction



The stainless steel radius reduction screw can reduce the radius down 25% without affecting precipitation rate...an industry first for spray nozzles!

## Pre-Attached Filter Screen for Installation Convenience

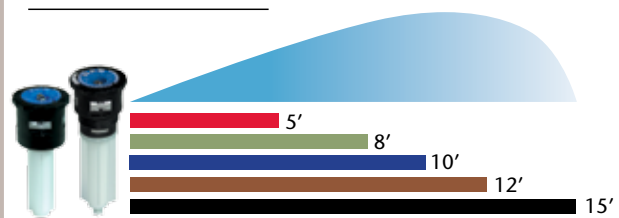
Filter Screen is pre-attached to the nozzle to ensure timely installations and retrofits. There are three different sizes of mesh filters to prevent debris from clogging the head.



## Uniform Droplet Size

The H<sup>2</sup>O Chip generates a larger, more uniform droplet size resulting in consistency across the irrigated arc, increased wind resistance and less unintentional watering of hardscape features and run-off.

### 5 Radii Available In Male & Female Threads



### 9 Arcs Plus Side and Corner Strips Available



**LCS**  
(Left Corner Strip)  
4' X 15'  
4' X 9'

**SST**  
(Side Strip)  
4' X 30'  
4' X 18'

**RCS**  
(Right Corner Strip)  
4' X 15'  
4' X 9'



### Maximize Efficiency

Combine the 570ZPRX sprayhead with the Precision Series Spray Nozzle to create the most efficient combination in the marketplace from 5-15 ft.



### Female-Threaded Models

Install or retrofit onto Irritrol®, Rain Bird® and Hunter® spray bodies with ease.

## Specifications

### Operating Specifications

- Radius: 5'-15' (1,5-4,6m)
- Operating pressure range: 20-75 psi (1,4-5,2 Bar)
- Recommended Pressure: 30 psi (2,1 Bar)
- Flow Rate: 0.04-2.4 GPM (0,1-9,4 LPM)
- Nozzle trajectory:
  - 5': 5°
  - 8': 10°
  - 10': 15°
  - 12': 20°
  - 15': 27°
  - Corner and Side Strips: 20°

### Additional Features

- Specialty Arcs available (60°, 120°, 150°, 210°, 240°)
- Radius reduction 25% maximum
- Color coded for radius on top of the nozzle
- Precipitation rate ≤ 1"/hour (≤ 25mm/hour)
- Maintains precipitation rate as radius is reduced up to max of 25%
- Matched precipitation rate within radius families
- Matched precipitation rates between radius families
- Screen attached to nozzle for easy insertion into the spray body
- Works on all spray bodies

### Warranty

- Two years

### Precision Series Nozzle Model List

5' "O" Nozzle (Red)			8' "O" Nozzle (Green)		
Male	Female	Descrip.	Male	Female	Descrip.
O-T-5-60	O-5-60	60° Arc	O-T-8-60	O-8-60	60° Arc
O-T-5-Q	O-5-Q	90° Arc	O-T-8-Q	O-8-Q	90° Arc
O-T-5-T	O-5-T	120° Arc	O-T-8-T	O-8-T	120° Arc
O-T-5-150	O-5-150	150° Arc	O-T-8-150	O-8-150	150° Arc
O-T-5-H	O-5-H	180° Arc	O-T-8-H	O-8-H	180° Arc
O-T-5-210	O-5-210	210° Arc	O-T-8-210	O-8-210	210° Arc
O-T-5-TT	O-5-TT	240° Arc	O-T-8-TT	O-8-TT	240° Arc
O-T-5-TQ	O-5-TQ	270° Arc	O-T-8-TQ	O-8-TQ	270° Arc
O-T-5-F	O-5-F	360° Arc	O-T-8-F	O-8-F	360° Arc
10' "O" Nozzle (Blue)			12' "O" Nozzle (Brown)		
O-T-10-60	O-10-60	60° Arc	O-T-12-60	O-12-60	60° Arc
O-T-10-Q	O-10-Q	90° Arc	O-T-12-Q	O-12-Q	90° Arc
O-T-10-T	O-10-T	120° Arc	O-T-12-T	O-12-T	120° Arc
O-T-10-150	O-10-150	150° Arc	O-T-12-150	O-12-150	150° Arc
O-T-10-H	O-10-H	180° Arc	O-T-12-H	O-12-H	180° Arc
O-T-10-210	O-10-210	210° Arc	O-T-12-210	O-12-210	210° Arc
O-T-10-TT	O-10-TT	240° Arc	O-T-12-TT	O-12-TT	240° Arc
O-T-10-TQ	O-10-TQ	270° Arc	O-T-12-TQ	O-12-TQ	270° Arc
O-T-10-F	O-10-F	360° Arc	O-T-12-F	O-12-F	360° Arc
15' "O" Nozzle (Black)			Special Patterns (Grey)		
O-T-15-60	O-15-60	60° Arc	Male	Female	
O-T-15-Q	O-15-Q	90° Arc			
O-T-15-T	O-15-T	120° Arc	O-T-4X9-RCS	O-4X9-RCS	Right Corner
O-T-15-150	O-15-150	150° Arc	O-T-4X9-LCS	O-4X9-LCS	Left Corner
O-T-15-H	O-15-H	180° Arc	O-T-4X18-SST	O-4X18-SST	Side Strip
O-T-15-210	O-15-210	210° Arc	O-T-4X15-RCS	O-4X15-RCS	Right Corner
O-T-15-TT	O-15-TT	240° Arc	O-T-4X15-LCS	O-4X15-LCS	Left Corner
O-T-15-TQ	O-15-TQ	270° Arc	O-T-4X30-SST	O-4X30-SST	Side Strip
O-T-15-F	O-15-F	360° Arc			

## Specifying Information

### O-X-XXXX-XXX

Nozzle	Thread	Radius	Arc	Body
O	X	XXXX	XXX	
O—1" Per Hour	T—Toro Male Threaded Nozzle Blank—Female Threaded Nozzle	5—5' (1,5m) 8—8' (2,4m) 10—10' (3,0m) 12—12' (3,7m) 15—15' (4,6m) (4X15—4'X15'* (1,2mX4,6m) 4X30—4'X30'* (1,2mX9,1m) 4X9—4'X9' (1,2mX2,7m) 4X18—4'X18' (1,2mX5,5m)	60—60° Q—90° T—120° 150—150° H—180° 210—210° TT—240° TQ—270° F-360—Full-circle LCS—Left Corner RCS—Right Corner SST—Side Strip*	Call out body as required

Example: A female threaded Precision Series Spray with a spray radius of 12' (3,7m) and a 90° arc would be specified as: O-12-Q  
 Example 2: A male threaded Precision Series Spray with a spray radius of 10' (3,0m) and a 180° arc would be specified as: O-T-10-H



**Performance Data Precision™ Series Spray Nozzles**

Arc	PSI	GPM	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)
5-60°	20	0.04	4.7	0.99	1.15
	30	0.04	5.0	0.99	1.15
	40	0.04	5.0	0.99	1.15
	50	0.05	5.3	0.99	1.14
5Q	20	0.06	4.6	1.02	1.18
	30	0.06	5.0	0.99	1.14
	40	0.07	5.0	1.00	1.16
5T	20	0.07	5.0	1.02	1.17
	30	0.09	5.0	1.04	1.20
	40	0.09	5.2	0.99	1.15
5-150°	20	0.07	4.0	1.02	1.18
	30	0.11	5.0	1.03	1.19
	40	0.12	5.2	1.04	1.20
5H	20	0.10	4.4	0.99	1.15
	30	0.13	5.0	1.00	1.16
	40	0.14	5.1	1.00	1.15
5-210°	20	0.10	4.4	0.99	1.15
	30	0.15	5.2	1.07	1.23
	40	0.16	5.3	1.10	1.27
5TT	20	0.14	4.3	1.09	1.26
	30	0.17	5.0	0.98	1.13
	40	0.19	5.0	1.07	1.23
5TQ	20	0.15	4.3	1.02	1.17
	30	0.20	5.0	1.00	1.16
	40	0.21	5.0	1.05	1.21
5F	20	0.17	4.0	1.02	1.18
	30	0.26	5.0	1.00	1.16
	40	0.26	5.0	1.00	1.16
12-60°	20	0.24	11.5	1.0	1.2
	30	0.25	12.0	1.0	1.2
	40	0.26	12.1	1.0	1.2
	50	0.28	12.2	1.1	1.3
12Q	20	0.34	12.0	1.0	1.2
	30	0.37	12.1	1.0	1.1
	40	0.39	11.4	1.0	1.2
12T	20	0.39	12.0	1.0	1.1
	30	0.46	11.5	1.0	1.2
	40	0.49	12.0	1.0	1.1
12-150°	20	0.46	11.5	1.0	1.2
	30	0.49	12.0	1.0	1.1
	40	0.51	12.2	1.0	1.1
12H	20	0.52	12.3	1.0	1.1
	30	0.60	11.6	1.0	1.2
	40	0.62	12.0	1.0	1.2
12-210°	20	0.63	12.2	1.0	1.1
	30	0.64	12.3	1.0	1.1
	40	0.70	11.5	1.0	1.2
12TT	20	0.74	12.0	1.0	1.1
	30	0.79	12.3	1.0	1.2
	40	0.80	12.4	1.0	1.2
12TQ	20	0.76	11.6	1.1	1.3
	30	0.82	12.0	1.1	1.3
	40	0.84	12.3	1.1	1.2
12F	20	0.85	12.4	1.1	1.2
	30	0.90	11.4	1.0	1.2
	40	0.99	12.0	1.0	1.1
12-150°	20	1.05	12.4	1.0	1.1
	30	1.05	11.4	1.0	1.2
	40	1.15	12.0	1.0	1.2
12-210°	20	1.19	12.2	1.0	1.2
	30	1.22	12.3	1.0	1.2
	40	1.22	12.3	1.0	1.2
12F	20	1.35	11.5	1.0	1.1
	30	1.48	12.0	1.0	1.1
	40	1.59	12.4	1.0	1.1
50	1.60	12.5	1.0	1.1	

Arc	PSI	GPM	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)
8-60°	20	0.10	7.6	1.0	1.2
	30	0.11	8.0	1.0	1.1
	40	0.12	8.1	1.1	1.2
	50	0.13	8.3	1.1	1.3
8Q	20	0.14	7.0	1.1	1.3
	30	0.17	8.0	1.0	1.1
	40	0.18	8.2	1.0	1.2
8T	20	0.18	8.4	1.0	1.1
	30	0.20	7.6	1.0	1.2
	40	0.22	8.0	1.0	1.1
8-150°	20	0.23	8.2	1.0	1.1
	30	0.24	8.3	1.0	1.1
	40	0.25	7.5	1.0	1.2
8H	20	0.27	8.0	1.0	1.1
	30	0.27	8.0	1.0	1.1
	40	0.28	8.1	1.0	1.1
8-210°	20	0.29	8.2	1.0	1.2
	30	0.26	7.0	1.0	1.2
	40	0.33	8.0	1.0	1.1
8TT	20	0.34	8.0	1.0	1.2
	30	0.34	8.0	1.0	1.2
	40	0.34	8.0	1.0	1.2
8TQ	20	0.33	7.6	1.1	1.3
	30	0.36	8.0	1.1	1.3
	40	0.37	8.1	1.1	1.3
8F	20	0.38	8.2	1.1	1.3
	30	0.34	7.0	1.0	1.2
	40	0.44	8.0	1.0	1.1
8-150°	20	0.46	8.0	1.0	1.2
	30	0.46	8.0	1.0	1.2
	40	0.46	8.0	1.0	1.2
8-210°	20	0.41	7.2	1.0	1.1
	30	0.49	8.0	1.1	1.1
	40	0.54	8.0	1.1	1.2
8F	20	0.55	8.0	1.1	1.2
	30	0.66	8.0	1.0	1.1
	40	0.68	8.0	1.0	1.2
50	0.71	8.0	1.1	1.2	

Arc	PSI	GPM	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)
10-60°	20	0.16	9.5	1.0	1.2
	30	0.17	10.0	1.0	1.1
	40	0.18	10.0	1.0	1.2
	50	0.19	10.0	1.1	1.3
10Q	20	0.26	9.5	1.0	1.1
	30	0.23	10.0	1.0	1.2
	40	0.28	10.2	1.0	1.2
10T	20	0.28	10.3	1.0	1.2
	30	0.31	9.5	1.0	1.1
	40	0.34	10.0	1.0	1.1
10-150°	20	0.36	10.0	1.0	1.2
	30	0.37	10.0	1.1	1.2
	40	0.41	9.8	1.0	1.1
10H	20	0.43	10.0	1.0	1.1
	30	0.43	10.0	1.0	1.1
	40	0.44	10.2	1.0	1.1
10-210°	20	0.46	10.4	1.0	1.1
	30	0.48	9.7	1.0	1.1
	40	0.51	10.0	1.0	1.1
10TT	20	0.55	10.3	1.0	1.2
	30	0.56	10.4	1.0	1.2
	40	0.56	10.4	1.0	1.2
10TQ	20	0.56	9.8	1.1	1.3
	30	0.58	10.0	1.1	1.3
	40	0.60	10.4	1.1	1.2
10F	20	0.62	10.5	1.1	1.3
	30	0.63	9.6	1.0	1.1
	40	0.69	10.0	1.0	1.2
10-150°	20	0.73	10.3	1.0	1.1
	30	0.74	10.4	1.0	1.1
	40	0.74	10.4	1.0	1.1
10-210°	20	0.71	9.5	1.0	1.1
	30	0.79	10.0	1.0	1.1
	40	0.84	10.3	1.0	1.1
10F	20	0.86	10.4	1.0	1.1
	30	0.95	9.6	1.0	1.1
	40	1.03	10.0	1.0	1.1
50	1.12	10.4	1.0	1.2	

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