



PRECISION™ SERIES SPRAY NOZZLES

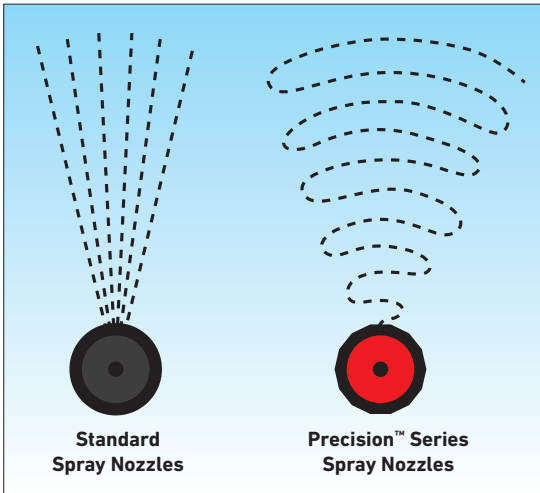




PRECISION™ SERIES SPRAY NOZZLES

VISIBLY DIFFERENT

The Toro Precision Series Spray Nozzles with patented H²O Chip technology offers performance characteristics that are visibly different than conventional spray nozzles. The secret lies within the chamber of the H²O Chip. Invisible to the naked eye, and only seen with strobe light illumination, water oscillates at over 200 cycles per second. This creates a spray pattern that offers better coverage, defined edges, reduced run-off, and lower flow - ultimately resulting in less water use.



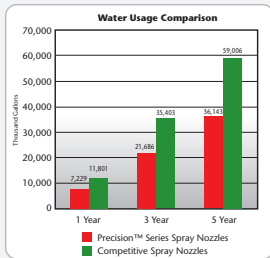
Patented H²O Chip Technology Delivers Improved Uniformity
Water enters a specially designed chamber within the H²O Chip where the water expands and collapses, creating an oscillating effect. Consistent-sized water droplets exit the Chip in the designed arc pattern and radius with clean edge definition, class-leading distribution uniformity, and reduced water usage.



A SPRAY NOZZLE LINE THAT DELIVERS:



Nozzle Selection
Second To None



1" Per Hour Matched
Precipitation and
One-For-One Retrofit



Higher Overall
Irrigation Efficiency
From 4-15 Feet



Water Use Reduction
While Minimizing
Run-Off & Water Waste



1" PER HOUR MATCHED PRECIPITATION AND ONE-FOR-ONE RETROFIT

Perfect when upgrading conventional, higher flow spray nozzles...Look for the "0" stamped on top of the nozzle.

"I was skeptical that putting 30% less water down would keep the turf in good condition. If I reduced my time by 30% with the old nozzles, I'd be growing straw. All I can say just by my observation is that it works. So far it looks great."

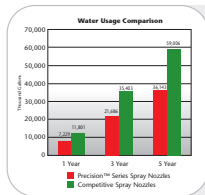
Bill Bobbit
Landscape Manager
La Quinta, CA

"We are finding that with the new water windows, if you have the old-style nozzles or high-efficiency competitive nozzles, you cannot complete your water cycle to meet a water district's water window."

Eric Anderson
President, Valley Soil
Temecula, CA

"For us, usually it's not about pressure, it's about the volume of water available. There was one job where I was going to install four valves, 2 in front and 2 in back, with these nozzles, I was able to use just two valves, 1 in front and 1 in back, and cut my cost in pipe and valves in half."

David Rudgers
Owner,
Rudgers Landscape Construction
Poway, CA



HIGHER OVERALL IRRIGATION EFFICIENCY FROM 4-15 FEET

Precision Series Spray nozzles perform more like a small rotor. The H²O Chip enables the nozzles to achieve distances of throw equivalent to those of conventional spray nozzles – but with one-third less flow and higher overall irrigation efficiency.

We ensure that our research is unbiased when we make tests. We have seen a uniformity coefficient greater than 80% on the Precision Spray Nozzles, which we've never had on square spacing."

Bernd Lainauer
Professor and Turf Grass
Extension Specialist,
New Mexico State University
Las Cruces, NM

"DU before the swap was 44%. After changing to Precision Spray Nozzles (No other changes or adjustments were made), DU went up to 73%. An increase of 29%! Using the 2009 YTD ET/Rainfall data, this could represent a savings of almost 11,000 gallons for this single zone!"

Dan Muelrath
Water Conservation
Program Coordinator,
City of Santa Rosa, California

"I am absolutely thrilled by the installation of the Precision Spray Nozzles. I am getting water where the gardener said I never would. I asked him to completely do my back yard with these nozzles. I live in an area that we can only water three days a week. But every inch of my backyard now gets watered. And even though it's been hotter than blue blazes, my lawn is greening up."

Barbara Brown
Homeowner
San Diego, CA

"What I found in general was they had a much higher uniformity than regular spray nozzles. They were also consistently at about a 25% less application rate overall, compared to regular spray heads. Running these nozzles side by side with regular nozzles they keep the lawns green in the same number of minutes with these using less water. Because these nozzles are proving to have a better uniformity rate, you can cut down the amount of time and still have the same results."

Laurence Budd
Urban Water Conservation
EPA WaterSense Partner,
CLIA auditor



Laboratory and third party independent field testing show efficiency to be 15-20% higher than competitive nozzles at 15 feet or less.

™ SERIES SPRAY NOZZLES!



WATER USE REDUCTION WHILE MINIMIZING RUN-OFF AND WATER WASTE

Precision Series Spray Nozzles have proven to save water in the field while reducing unnecessary overspray, wasteful run-off and evaporation.

"One of our guiding principles is to be good stewards of the environment, even in a water rich state such as Michigan. The installation site selected is one of the toughest on the property...an annual display bed fully exposed on a windy hill top. Even in these conditions a 20% water reduction was achieved. That's a significant savings and that's just one station!"

Scott Davidson
Plant Record & Irrigation Specialist
Frederik Meijer Gardens & Sculpture Park
Grand Rapids, Michigan

"The line of demarcation is pretty straight and there's not any overspray, and they stay in adjustment. The coverage has been exceptional. We have left the same setting on the timer as was set for the higher-gallonage head. We haven't seen a decline in the turf even though we've had some pretty hot weather recently."

Patrick Reynolds
Parks Manager,
City of Culver City, CA

"I've been doing this 27 years and I can tell there is a savings of at least 20-25% of water. The droplets are good, I'm real impressed, so impressed, we want to retrofit other heads with all Toro Precision Spray Nozzles. We're always looking for anything that saves water. I'm sold on these."

Louie Raygoza
Sr. Crew Leader/Maintenance
Specialist (Irrigation),
City of Santa Maria



FITS TORO, RAIN BIRD®, HUNTER® AND IRRITROL® FIXED SPRAYS

Available in male and female threaded models with a radius between 5' and 15' and the nozzle tops are color-coded to indicate the specific radius. Available in models with 9 different arcs between 60° and 360°, and specialty arcs such as right and left corners and center strips. All Precision nozzles can be used with operating pressures of between 20 and 50 psi.

"The Precision Series Spray Nozzle is sort of like the Compact Fluorescent Light (CFL) bulb of water savings. You just remove the old style nozzle, screw on a Precision Spray Nozzle, and save 25-30% more water instantly."

Bryan McDonald
Vice-President,
Whitmore Landscape Management
Plano, TX

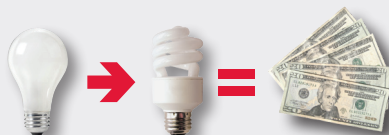
"The installation process was no different than any typical nozzle installation for heads we have been using forever. They were a good fit. On two residential jobs we had absolutely no die-back, no brown spots. The lawns were perfect and its been about 100 degrees here the last two weeks."

Kevin Dettner
Landscape Construction Manager,
Zuke's Landscape, Inc.
Rancho Cordova, CA

"To me, I've seen a lot of products come through and once in a while one comes along that really grabs you, and this one fits that category. There've been some jobs where people wanted to save water and get better distribution, but the area was too small for rotating nozzles. Now I'll use these [Precision] spray nozzles. I think it's going to become very, very popular."

Agustin Gomez
Owner, Agustin's Irrigation Service
San Diego, CA

ENERGY SAVINGS:



WATER SAVINGS*:



**Projections of savings are based on Precision™ Series Spray Nozzles and conventional spray nozzles using the same watering schedule. Actual savings from installing Precision Series Spray nozzles may vary based on site conditions, head spacing and other factors not under Toro's control.*

For More Information Please Visit: www.toro.com/psn

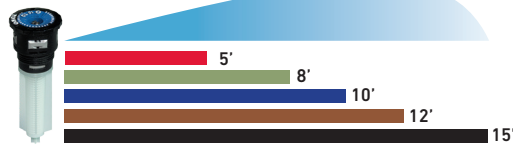


PRECISION™ SERIES SPRAY NOZZLES

Color-Coded Male And Female Threaded Nozzles TO FIT ALL SPRAYHEADS

5 Radii Available In
Male & Female Threads

1"/hr. MPR Even After
Radius Reduction



9 Arcs Plus Side and Corner Strips Available



4' X 15'
4' X 9'

LCS
(Left Corner Strip)

4' X 30'
4' X 18'

SST
(Side Strip)

4' X 15'
4' X 9'

RCS
(Right Corner Strip)



* Includes: Rain Bird®, Hunter®, WeatherMatic®, Hit®, Orbit® and Irritrol®

TORO® 570Z PRX SPRAY HEAD X-Flow® Valve-In-Stem



Built right into the riser it couldn't be simpler. As long as the basket screen is in place, it pushes down on the valve, allowing water to flow around the valve and to the nozzle. If the nozzle and screen are missing or removed, the XF valve seats, sealing off water flow. No more geysers! Another industry first!

PATENTED IN-STEM PRESSURE REGULATION

Maximizes spray head efficiency at 30 psi.



Without
Valve-In-Stem



Without Valve-In-Stem

PRESSURE-COMPENSATING VERSIONS AVAILABLE

Pressure-Compensating Precision™ Series Spray Nozzles maintain 1"/hr (25mm/hr.) precipitation rate and minimizes misting up to inlet pressures to more than 40 PSI, minimizing the need for a regulating head, at fraction of the cost.



For More Information Please Visit: www.toro.com/psn



**Toro is always there to help you care for your landscapes the way you want,
when you want, better than anyone else.**



www.toro.com

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