



- Radius: 1,5-4,6m (5'-15')
- Operating Pressure Range: 1,4-5,2 Bar (20-75 psi)
- Arc Options: 90°, 120°, 180°, 240°, 270°, 360°
- Side & Corner Specialty Patterns
- Fit Toro® or Irritrol®, Rain Bird® and Hunter® Spray Bodies



Learn more at
toro.com

Toro's 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™ Series Spray Nozzles' 25mm/hr. (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. The Precision™ Series Spray Nozzles are now pressure-compensating, further enhancing the best-in-class spray nozzle in the industry.



Features & Benefits

Patented H²O Chip Technology

Using patented H²O chip technology – and no moving parts – each Precision™ Series Spray Nozzle creates one or more high frequency oscillating streams to achieve the desired arc and radius with one-third less water usage.

Maximize Irrigation Efficiency

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

Pressure-Compensating

Pressure-Compensating Precision™ Series Spray Nozzles maintain 25mm/hr. (1"/hr) precipitation rate and minimize misting for inlet pressures of more than 2,8 Bar (40 PSI), minimizing the need for a regulating head, at fraction of the cost.

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).

Competitor's High Flow Nozzle:

12H Nozzle at 3,4 Bar = 62mm/hr. or 6,93LPM*



PSN with PCD Performs Under Pressure!



**Up To
60% Less
Water!**

*Based on internal flow rate
test data in Riverside, CA.

Pressure Compensation Disk

The elastomeric PCD disk opens and closes in response to changes in inlet pressure to maintain optimal nozzle performance. Recommended for use on systems operating above 2,8 Bar (40 psi), PCD models can easily be identified by the red Toro lettering across the top of the nozzle.

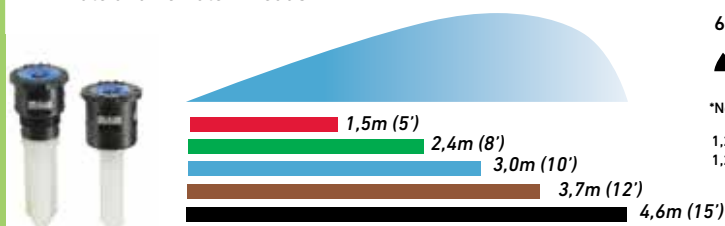


PSN with PCD Nozzle:

12H Nozzle at 3,4 Bar = 25mm/hr. or 2,80 LPM*

Precision™ Series Spray Nozzles

5 Radii Available in Toro
Male and Female Threads



9 Arcs Plus Side and Corner Strips Available



*Not available with Pressure-Compensating

1,2m X 4,6m (4' X 15')
1,2m X 2,7m (4' X 9')

1,2m X 9,1m (4' X 30')
1,2m X 5,5m (4' X 18')

1,2m X 4,6m (4' X 15')
1,2m X 2,7m (4' X 9')

LCS (Left Corner Strip)

SST (Side Strip)

RCS (Right Corner Strip)

Performance Data Pressure-Compensating Precision™ Series Spray Nozzles

1,5m (5') "O" Nozzle					
Arc	Bar	Flow (lpm)	Radius (m)	Precip Rate (mm/hr)	
				■	▲
5Q	2,1	0,21	1,28	22,17	25,60
	3,1	0,26	1,49	27,38	31,62
	4,1	0,33	1,72	33,90	39,15
5T	2,1	0,36	1,33	27,87	32,18
	3,1	0,44	1,55	34,23	39,52
	4,1	0,56	1,66	43,03	49,69
5H	2,1	0,39	1,22	20,21	23,34
	3,1	0,50	1,49	26,08	30,11
	4,1	0,62	1,66	31,94	36,89
5TT	2,1	0,64	1,29	24,94	28,79
	3,1	0,77	1,54	29,83	34,44
	4,1	0,95	1,65	36,67	42,35
5TQ	2,1	0,69	1,30	23,84	27,53
	3,1	0,85	1,55	29,05	33,54
	4,1	1,00	1,70	34,25	39,55
5F	2,1	0,82	1,28	21,19	24,47
	3,1	1,01	1,51	26,08	30,11
	4,1	1,19	1,68	30,64	35,38

2,4m (8') "O" Nozzle					
Arc	Bar	Flow (lpm)	Radius (m)	Precip Rate (mm/hr)	
				■	▲
8Q	2,1	0,52	2,40	20,88	24,11
	3,1	0,64	2,49	25,98	29,99
	4,1	0,76	2,56	30,56	35,29
8T	2,1	0,71	2,25	21,39	24,70
	3,1	0,88	2,49	26,74	30,88
	4,1	1,03	2,59	31,32	36,17
8H	2,1	1,02	2,34	20,63	23,82
	3,1	1,26	2,44	25,47	29,41
	4,1	1,49	2,48	30,05	34,70
8TT	2,1	1,36	2,26	20,63	23,82
	3,1	1,68	2,47	25,40	29,33
	4,1	1,98	2,59	29,99	34,63
8TQ	2,1	1,43	2,31	19,14	22,10
	3,1	1,80	2,47	24,22	27,96
	4,1	2,08	2,61	27,94	32,27
8F	2,1	1,97	2,26	19,86	22,94
	3,1	2,42	2,37	24,45	28,23
	4,1	2,80	2,45	28,27	32,64

3,0m (10') "O" Nozzle					
Arc	Bar	Flow (lpm)	Radius (m)	Precip Rate (mm/hr)	
				■	▲
10Q	2,1	0,76	2,95	19,56	22,58
	3,1	0,93	3,13	24,12	27,85
	4,1	1,09	3,21	28,03	32,37
10T	2,1	1,05	2,94	20,29	23,43
	3,1	1,30	3,13	25,18	29,08
	4,1	1,54	3,21	29,83	34,44
10H	2,1	1,53	2,93	19,72	22,77
	3,1	1,85	3,09	23,96	27,67
	4,1	2,16	3,18	27,87	32,18
10TT	2,1	2,06	2,89	19,92	23,01
	3,1	2,51	3,03	24,33	28,09
	4,1	2,93	3,14	28,36	32,75
10TQ	2,1	2,09	2,83	17,99	20,78
	3,1	2,68	3,06	22,98	26,53
	4,1	3,10	3,14	26,66	30,79
10F	2,1	3,08	2,98	19,88	22,96
	3,1	3,79	3,10	24,45	28,23
	4,1	4,38	3,19	28,28	32,65

Performance Data Pressure-Compensating Precision™ Series Spray Nozzles

3,7m (12') "O" Nozzle					
Arc	Bar	Flow (lpm)	Radius (m)	Precip Rate (mm/hr)	
				■	▲
12Q	2,1	1,11	3,46	19,92	23,00
	3,1	1,36	3,72	24,45	28,23
	4,1	1,63	3,80	29,20	33,72
12T	2,1	1,44	3,36	19,35	22,35
	3,1	1,75	3,45	23,60	27,25
	4,1	2,06	3,67	27,67	31,96
12H	2,1	2,11	3,25	18,90	21,83
	3,1	2,60	3,69	23,32	26,92
	4,1	3,02	3,72	27,05	31,24
12TT	2,1	3,10	3,34	20,88	24,11
	3,1	3,80	3,41	25,55	29,50
	4,1	4,39	3,51	29,54	34,11
12TQ	2,1	3,27	3,34	19,49	22,51
	3,1	4,01	3,52	23,93	27,64
	4,1	4,64	3,65	27,70	31,98
12F	2,1	4,38	3,27	19,64	22,68
	3,1	5,36	3,63	24,05	27,77
	4,1	6,18	3,70	27,73	32,02

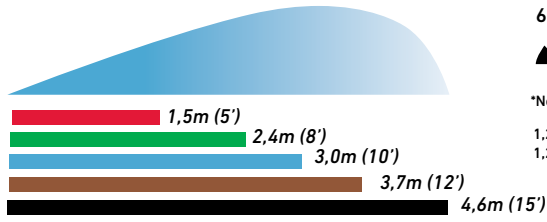
4,6m (15') "O" Nozzle					
Arc	Bar	Flow (lpm)	Radius (m)	Precip Rate (mm/hr)	
				■	▲
15Q	2,1	1,67	4,07	19,12	22,08
	3,1	2,09	4,42	24,05	27,77
	4,1	2,44	4,52	27,96	32,29
15T	2,1	2,20	4,30	18,91	21,83
	3,1	2,69	4,47	23,14	26,72
	4,1	3,12	4,65	26,84	30,99
15H	2,1	3,43	4,03	19,70	22,75
	3,1	4,23	4,18	24,27	28,02
	4,1	4,87	4,27	27,96	32,29
15TT	2,1	4,48	4,27	19,29	22,27
	3,1	5,49	4,43	23,63	27,29
	4,1	6,36	4,58	27,38	31,62
15TQ	2,1	4,82	4,08	18,40	21,25
	3,1	5,91	4,31	22,54	26,03
	4,1	6,81	4,49	26,01	30,04
15F	2,1	6,78	4,00	19,45	22,46
	3,1	8,25	4,16	23,69	27,35
	4,1	9,55	4,22	27,42	31,66

Special Patterns					
Arc	Bar	Flow (lpm)	Radius (m)	Precip Rate (mm/hr)	
				■	▲
4X15 LCS	2,1	1,02	1,2 x 4,5	22,00	25,41
	2,8	1,17	1,2 x 4,5	25,26	29,17
4X15 RCS	3,5	1,21	1,2 x 4,5	26,08	30,11
	4,1	1,25	1,2 x 4,5	26,89	31,05
4X30 SST	2,1	2,12	1,2 x 9,0	22,82	26,35
	2,8	2,42	1,2 x 9,0	26,08	30,11
	3,5	2,50	1,2 x 9,0	26,89	31,05
	4,1	2,57	1,2 x 9,0	27,71	31,99
4X9 LCS	2,1	0,61	1,2 x 2,7	24,45	28,23
	2,8	0,68	1,2 x 2,7	27,50	31,76
4X9 RCS	3,5	0,72	1,2 x 2,7	29,03	33,52
	4,1	0,72	1,2 x 2,7	29,03	33,52
4X18 SST	2,1	1,29	1,2 x 5,4	25,98	29,99
	2,8	1,36	1,2 x 5,4	27,50	31,76
	3,5	1,44	1,2 x 5,4	29,03	33,52
	4,1	1,44	1,2 x 5,4	29,03	33,52

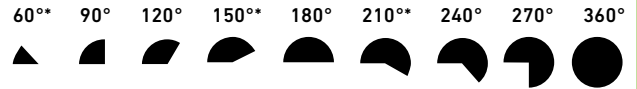
For low pressures (< 2,8 Bar) or designs requiring non-standard Arcs (60°, 150°, 210°), non-pressure compensating versions of the Precision™ Series Spray nozzles are available by special order. Contact Toro or your local Distributor/Dealer for information.

Precision™ Series Spray Nozzles

5 Radii Available in Toro
Male and Female Threads



9 Arcs Plus Side and Corner Strips Available



*Not available with Pressure-Compensating

1,2m X 4,6m (4' X 15')
1,2m X 2,7m (4' X 9')

1,2m X 9,1m (4' X 30')
1,2m X 5,5m (4' X 18')

1,2m X 4,6m (4' X 15')
1,2m X 2,7m (4' X 9')

LCS (Left Corner Strip)

SST (Side Strip)

RCS (Right Corner Strip)

Performance Data Precision™ Series Spray Nozzles

1,5m (5') "O" Nozzle					
Arc	Bar	Flow (lpm)	Radius (m)	Precip. Rate (mm/hr.)	Precip. Rate (mm/hr.)
				■	▲
5-60° ▲	1,4	0,15	1,43	25,4	29,2
	2,1	0,15	1,53	25,4	29,2
	2,8	0,15	1,53	25,4	29,2
	3,4	0,19	1,62	25,4	29,0
5Q ■	1,4	0,23	1,40	25,4	30,0
	2,1	0,23	1,53	25,4	29,0
	2,8	0,26	1,53	25,4	29,5
	3,4	0,26	1,53	25,4	29,7
5T ■	1,4	0,26	1,34	25,4	29,7
	2,1	0,34	1,53	25,4	30,5
	2,8	0,34	1,59	25,4	29,2
	3,4	0,38	1,65	25,4	28,7
5-150° ■	1,4	0,26	1,22	25,4	30,0
	2,1	0,42	1,53	25,4	30,2
	2,8	0,45	1,59	25,4	30,5
	3,4	0,49	1,65	25,4	30,5
5H ■	1,4	0,38	1,34	25,4	29,2
	2,1	0,49	1,53	25,4	29,5
	2,8	0,53	1,56	25,4	29,2
	3,4	0,53	1,59	25,4	29,0
5-210° ■	1,4	0,38	1,34	25,4	29,2
	2,1	0,57	1,59	27,9	31,2
	2,8	0,61	1,62	27,9	32,3
	3,4	0,64	1,68	27,9	31,8
5TT ■	1,4	0,53	1,31	27,9	32,0
	2,1	0,64	1,53	25,4	28,7
	2,8	0,72	1,53	27,9	31,2
	3,4	0,72	1,53	27,9	31,8
5TQ ■	1,4	0,57	1,31	25,4	29,7
	2,1	0,76	1,53	25,4	29,5
	2,8	0,79	1,53	27,9	30,7
	3,4	0,83	1,53	27,9	32,3
5F ●	1,4	0,64	1,22	25,4	30,0
	2,1	0,98	1,53	25,4	29,5
	2,8	0,98	1,53	25,4	29,5
	3,4	0,98	1,53	25,4	29,5

2,4m (8') "O" Nozzle					
Arc	Bar	Flow (lpm)	Radius (m)	Precip. Rate (mm/hr.)	Precip. Rate (mm/hr.)
				■	▲
8-60° ▲	1,4	0,38	2,32	25,4	30,5
	2,1	0,42	2,44	25,4	27,9
	2,8	0,45	2,47	27,9	30,5
	3,4	0,49	2,53	27,9	33,0
8Q ■	1,4	0,53	2,14	27,9	33,0
	2,1	0,64	2,44	25,4	27,9
	2,8	0,68	2,50	25,4	30,5
	3,4	0,68	2,56	25,4	27,9
8T ■	1,4	0,76	2,32	25,4	30,5
	2,1	0,83	2,44	25,4	27,9
	2,8	0,87	2,50	25,4	27,9
	3,4	0,91	2,53	25,4	27,9
8-150° ■	1,4	0,95	2,29	25,4	30,5
	2,1	1,02	2,44	25,4	27,9
	2,8	1,06	2,47	25,4	27,9
	3,4	1,10	2,50	25,4	30,5
8H ■	1,4	0,98	2,14	25,4	30,5
	2,1	1,25	2,44	25,4	27,9
	2,8	1,29	2,44	25,4	30,5
	3,4	1,29	2,44	25,4	30,5
8-210° ■	1,4	1,25	2,32	27,9	33,0
	2,1	1,36	2,44	27,9	33,0
	2,8	1,40	2,47	27,9	33,0
	3,4	1,44	2,50	27,9	33,0
8TT ■	1,4	1,29	2,14	25,4	30,5
	2,1	1,67	2,44	25,4	27,9
	2,8	1,74	2,44	25,4	30,5
	3,4	1,74	2,44	25,4	30,5
8TQ ■	1,4	1,55	2,20	25,4	27,9
	2,1	1,85	2,44	27,9	27,9
	2,8	2,04	2,44	27,9	30,5
	3,4	2,08	2,44	27,9	30,5
8F ●	1,4	2,08	2,14	27,9	30,5
	2,1	2,50	2,44	25,4	27,9
	2,8	2,57	2,44	25,4	30,5
	3,4	2,69	2,44	27,9	30,5

3,0m (10') "O" Nozzle					
Arc	Bar	Flow (lpm)	Radius (m)	Precip. Rate (mm/hr.)	Precip. Rate (mm/hr.)
				■	▲
10-60° ▲	1,4	0,61	2,90	25,4	30,5
	2,1	0,64	3,05	25,4	27,9
	2,8	0,68	3,05	25,4	30,5
	3,4	0,72	3,05	27,9	33,0
10Q ■	1,4	0,98	2,90	25,4	27,9
	2,1	0,87	3,05	25,4	30,5
	2,8	1,06	3,05	25,4	30,5
	3,4	1,06	3,05	25,4	30,5
10T ■	1,4	1,17	2,90	25,4	27,9
	2,1	1,29	3,05	25,4	27,9
	2,8	1,36	3,05	25,4	30,5
	3,4	1,40	3,05	27,9	30,5
10-150° ■	1,4	1,55	2,99	25,4	27,9
	2,1	1,63	3,05	25,4	27,9
	2,8	1,67	3,11	25,4	27,9
	3,4	1,74	3,17	25,4	27,9
10H ■	1,4	1,82	2,96	25,4	27,9
	2,1	1,93	3,05	25,4	27,9
	2,8	2,08	3,14	25,4	30,5
	3,4	2,12	3,17	25,4	30,5
10-210° ■	1,4	2,12	2,99	27,9	33,0
	2,1	2,20	3,05	27,9	33,0
	2,8	2,27	3,17	27,9	30,5
	3,4	2,35	3,20	27,9	33,0
10TT ■	1,4	2,38	2,93	25,4	27,9
	2,1	2,61	3,05	25,4	30,5
	2,8	2,76	3,14	25,4	27,9
	3,4	2,80	3,17	25,4	27,9
10TQ ■	1,4	2,69	2,90	25,4	27,9
	2,1	2,99	3,05	25,4	27,9
	2,8	3,18	3,14	25,4	27,9
	3,4	3,26	3,17	25,4	27,9
10F ●	1,4	3,60	2,93	25,4	27,9
	2,1	3,90	3,05	25,4	27,9
	2,8	4,09	3,14	25,4	27,9
	3,4	4,24	3,17	25,4	30,5

Performance Data Precision™ Series Spray Nozzles

3,7m (12') "O" Nozzle					
Arc	Bar	Flow (lpm)	Radius (m)	Precip. Rate ■(mm/hr.)	Precip. Rate ▲(mm/hr.)
12-60° ▲	1,4	0,91	3,51	25,4	30,5
	2,1	0,95	3,66	25,4	30,5
	2,8	0,98	3,69	25,4	30,5
	3,4	1,06	3,72	27,9	33,0
12Q ■	1,4	1,29	3,66	25,4	30,5
	2,1	1,40	3,69	25,4	27,9
	2,8	1,48	3,48	25,4	30,5
	3,4	1,48	3,66	25,4	27,9
12T ■	1,4	1,74	3,51	25,4	30,5
	2,1	1,85	3,66	25,4	27,9
	2,8	1,93	3,72	25,4	27,9
	3,4	1,97	3,75	25,4	27,9
12-150° ■	1,4	2,27	3,54	25,4	30,5
	2,1	2,35	3,66	25,4	27,9
	2,8	2,38	3,72	25,4	27,9
	3,4	2,42	3,75	25,4	27,9
12H ■	1,4	2,65	3,51	25,4	30,5
	2,1	2,80	3,66	25,4	27,9
	2,8	2,99	3,75	25,4	30,5
	3,4	3,03	3,78	25,4	30,5
12-210° ■	1,4	2,88	3,54	27,9	33,0
	2,1	3,10	3,66	27,9	33,0
	2,8	3,18	3,75	27,9	30,5
	3,4	3,22	3,78	27,9	30,5
12TT ■	1,4	3,41	3,48	25,4	30,5
	2,1	3,75	3,66	25,4	27,9
	2,8	3,94	3,75	25,4	27,9
	3,4	3,97	3,78	25,4	27,9
12TQ ■	1,4	3,97	3,48	25,4	30,5
	2,1	4,35	3,66	25,4	30,5
	2,8	4,50	3,72	25,4	30,5
	3,4	4,62	3,75	25,4	30,5
12F ●	1,4	5,11	3,51	25,4	27,9
	2,1	5,60	3,66	25,4	27,9
	2,8	6,02	3,78	25,4	27,9
	3,4	6,06	3,81	25,4	27,9

4,6m (15') "O" Nozzle					
Arc	Bar	Flow (lpm)	Radius (m)	Precip. Rate ■(mm/hr.)	Precip. Rate ▲(mm/hr.)
15-60° ▲	1,4	1,32	4,27	25,4	30,5
	2,1	1,48	4,58	25,4	30,5
	2,8	1,51	4,61	25,4	30,5
	3,4	1,59	4,67	25,4	30,5
15Q ■	1,4	2,01	4,33	25,4	30,5
	2,1	2,20	4,58	25,4	27,9
	2,8	2,27	4,61	25,4	30,5
	3,4	2,31	4,67	25,4	30,5
15T ■	1,4	2,73	4,36	25,4	30,5
	2,1	2,91	4,58	25,4	27,9
	2,8	3,07	4,67	25,4	30,5
	3,4	3,10	4,70	25,4	30,5
15-150° ■	1,4	3,48	4,48	25,4	30,5
	2,1	3,63	4,58	25,4	30,5
	2,8	3,79	4,64	25,4	30,5
	3,4	4,16	4,67	27,9	33,0
15H ■	1,4	4,16	4,42	25,4	30,5
	2,1	4,39	4,58	25,4	27,9
	2,8	4,73	4,70	25,4	30,5
	3,4	4,84	4,73	25,4	30,5
15-210° ■	1,4	4,35	4,42	27,9	30,5
	2,1	4,54	4,58	25,4	30,5
	2,8	4,92	4,73	25,4	30,5
	3,4	5,30	4,76	27,9	33,0
15TT ■	1,4	5,49	4,42	25,4	30,5
	2,1	5,83	4,58	25,4	27,9
	2,8	5,98	4,64	25,4	27,9
	3,4	6,09	4,67	25,4	27,9
15TQ ■	1,4	6,51	4,42	25,4	30,5
	2,1	6,74	4,58	25,4	27,9
	2,8	6,89	4,58	25,4	30,5
	3,4	7,19	4,67	25,4	30,5
15F ●	1,4	8,33	4,42	25,4	30,5
	2,1	8,74	4,58	25,4	27,9
	2,8	8,89	4,64	25,4	27,9
	3,4	9,08	4,67	25,4	27,9

Special Patterns					
Arc	Bar	Flow (lpm)	Radius (m)	Precip. Rate ■(mm/hr.)	Precip. Rate ▲(mm/hr.)
4X30 SST ■	1,4	2,35	1,2x8,5	25,4	27,9
	2,1	2,50	1,2x9,1	27,9	30,5
	2,8	2,54	1,2x9,1	27,9	30,5
	3,4	2,57	1,2x9,1	27,9	33,0
4X15 LCS ■	1,4	1,21	1,2x4,5	25,4	30,5
	2,1	1,25	1,2x4,5	27,9	30,5
	2,8	1,29	1,2x4,5	27,9	30,5
	3,4	1,29	1,2x4,5	27,9	33,0
4X15 RCS ■	1,4	1,21	1,2x4,5	25,4	30,5
	2,1	1,25	1,2x4,5	27,9	30,5
	2,8	1,29	1,2x4,5	27,9	33,0
	3,4	1,29	1,2x4,5	27,9	33,0
4X18 SST ■	1,4	1,36	1,2x5,5	25,4	27,9
	2,1	1,40	1,2x5,5	25,4	27,9
	2,8	1,44	1,2x5,5	25,4	30,5
	3,4	1,44	1,2x5,5	25,4	30,5
4X9 LCS ■	1,4	0,68	1,2x2,7	25,4	30,5
	2,1	0,72	1,2x2,7	25,4	30,5
	2,8	0,76	1,2x2,7	27,9	30,5
	3,4	0,76	1,2x2,7	27,9	27,9
4X9 RCS ■	1,4	0,68	1,2x2,7	25,4	30,5
	2,1	0,72	1,2x2,7	25,4	30,5
	2,8	0,76	1,2x2,7	27,9	30,5
	3,4	0,76	1,2x2,7	27,9	30,5

Precision™ Series H₂FLO™ Variable Radius Nozzles

- Patented H₂O Chip Technology
- Variable Radius: 2,4m (8') to 4,6m (15')
- Arc Options: Quarter, Half, and Full
- Male or Female Thread, or pre-installed on 100mm (4") pop-up LPS Spray

Maximum irrigation efficiency with optimal product versatility:

All the water-saving capabilities of Toro's Precision™ Series Spray Nozzles with the inventory-reducing advantage of true variable radius. Adjustable from 2,4m (8') to 4,6m (15') to match multiple sizes of landscape with one nozzle.

Performance Data

Variable Radius Precision™ Series Spray Nozzles @ 2,0 Bar

Quarter Circle

Radius (m)	DU	CU	SC	LPM	Precip.Rate ■ (mm/hr.)
2,4	55	73	1,4	0,9	29,7
3,0	58	75	1,3	1,2	26,9
3,7	54	73	1,3	1,5	25,1
4,6	56	75	1,2	2,2	27,2

Half Circle

Radius (m)	DU	CU	SC	LPM	Precip.Rate ■ (mm/hr.)
2,4	55	73	1,4	2,0	36,1
3,0	58	75	1,3	2,4	29,2
3,7	54	73	1,3	2,9	26,2
4,6	56	75	1,2	4,4	26,4

Full Circle

Radius (m)	DU	CU	SC	LPM	Precip.Rate ■ (mm/hr.)
2,4	55	73	1,4	3,5	33,5
3,0	58	75	1,3	4,5	27,7
3,7	54	73	1,3	6,7	28,7
4,6	56	75	1,2	8,1	24,6



Precision™ Series Sprinkler,
100mm(4") Pop-Up with Nozzle
53892, 53893, 53894

Variable Radius Nozzle Only (1 per Blister Pack)

Male (Toro) Threaded
Red Cap
53926, 53927, 53928

Female Threaded
Green Cap
53895, 53896, 53897

Variable Radius Precision™ Series Spray Nozzle Model List

Model	Description
100mm (4") Pop-up w/ pre-installed Variable Radius Precision™ Series Spray Nozzle – 2,4m (8') to 4,6m (15'), without PCD	
53892	100mm (4") LPS Spray w/ Variable Radius Precision™ Series Nozzle, Quarter Circle
53893	100mm (4") LPS Spray w/ Variable Radius Precision™ Series Nozzle, Half Circle
53894	100mm (4") LPS Spray w/ Variable Radius Precision™ Series Nozzle, Full Circle
Variable Radius Precision™ Series Spray Nozzle – 2,4m (8') to 4,6m (15'), Toro Thread, without PCD, (1 per Blister Pack)	
53926	Precision™ Series Spray Nozzle, Variable Radius, Toro-thread, Quarter Circle
53927	Precision™ Series Spray Nozzle, Variable Radius, Toro-thread, Half Circle
53928	Precision™ Series Spray Nozzle, Variable Radius, Toro-thread, Full Circle
Variable Radius Precision™ Series Spray Nozzle – 2,4m (8') to 4,6m (15'), Female Thread, without PCD, (1 per Blister Pack)	
53895	Precision™ Series Spray Nozzle, Variable Radius, Female-thread, Quarter Circle
53896	Precision™ Series Spray Nozzle, Variable Radius, Female-thread, Half Circle
53897	Precision™ Series Spray Nozzle, Variable Radius, Female-thread, Full Circle

Precision™ Series Spray Nozzles

Specifications

Operating Specifications (with PCD)

- Radius: 1,5-4,6m (5'-15')
- Operating pressure range: 2,8-5,2 Bar (40-75 psi)
- Recommended Pressure: 3,5 Bar (50 psi)
- Flow Rate: 0,2-9,6 LPM (0.06-2.4 GPM)
- Nozzle trajectory:
 - 1,5m (5'): 5°
 - 2,4m (8'): 10°
 - 3,0m (10'): 15°
 - 3,7m 12' ('): 20°
 - 4,6m (15'): 27°
- Corner and Side Strips: 20°

Additional Features

- Radius reduction 25% maximum
- Color coded for radius on top of the nozzle
- Precipitation rate $\leq$ 25mm/hour ($\leq$ 1"/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

Pressure-Compensating Precision™ Series Nozzle Model List

1,5m (5') "O" Nozzle (Red)			2,4m (8') "O" Nozzle (Green)			3,0m (10') "O" Nozzle (Blue)		
Male	Female	Description	Male	Female	Description	Male	Female	Description
O-T-5-QP	O-5-QP	90° Arc	O-T-8-QP	O-8-QP	90° Arc	O-T-10-QP	O-10-QP	90° Arc
O-T-5-TP	O-5-TP	120° Arc	O-T-8-TP	O-8-TP	120° Arc	O-T-10-TP	O-10-TP	120° Arc
O-T-5-HP	O-5-HP	180° Arc	O-T-8-HP	O-8-HP	180° Arc	O-T-10-HP	O-10-HP	180° Arc
O-T-5-TTP	O-5-TTP	240° Arc	O-T-8-TTP	O-8-TTP	240° Arc	O-T-10-TTP	O-10-TTP	240° Arc
O-T-5-TQP	O-5-TQP	270° Arc	O-T-8-TQP	O-8-TQP	270° Arc	O-T-10-TQP	O-10-TQP	270° Arc
O-T-5-FP	O-5-FP	360° Arc	O-T-8-FP	O-8-FP	360° Arc	O-T-10-FP	O-10-FP	360° Arc
3,7m (12') "O" Nozzle (Brown)			4,6m (15') "O" Nozzle (Black)			Special Patterns (Grey)		
Male	Female	Description	Male	Female	Description	Male	Female	Description
O-T-12-QP	O-12-QP	90° Arc	O-T-15-QP	O-15-QP	90° Arc	O-T-4X9-RCSP	O-4X9-RCSP	Right Corner
O-T-12-TP	O-12-TP	120° Arc	O-T-15-TP	O-15-TP	120° Arc	O-T-4X9-LCSP	O-4X9-LCSP	Left Corner
O-T-12-HP	O-12-HP	180° Arc	O-T-15-HP	O-15-HP	180° Arc	O-T-4X18-SSTP	O-4X18-SSTP	Side Strip
O-T-12-TTP	O-12-TTP	240° Arc	O-T-15-TTP	O-15-TTP	240° Arc	O-T-4X15-RCSP	O-4X15-RCSP	Right Corner
O-T-12-TQ	O-12-TQP	270° Arc	O-T-15-TQP	O-15-TQP	270° Arc	O-T-4X15-LCSP	O-4X15-LCSP	Left Corner
O-T-12-FP	O-12-FP	360° Arc	O-T-15-FP	O-15-FP	360° Arc	O-T-4X30-SSTP	O-4X30-SSTP	Side Strip

Precision™ Series Nozzle Model List

1,5m (5') "O" Nozzle (Red)			2,4m (8') "O" Nozzle (Green)			3,0m (10') "O" Nozzle (Blue)		
Male	Female	Description	Male	Female	Description	Male	Female	Description
O-T-5-60	O-5-60	60° Arc	O-T-8-60	O-8-60	60° Arc	O-T-10-60	O-10-60	60° Arc
O-T-5-Q	O-5-Q	90° Arc	O-T-8-Q	O-8-Q	90° Arc	O-T-10-Q	O-10-Q	90° Arc
O-T-5-T	O-5-T	120° Arc	O-T-8-T	O-8-T	120° Arc	O-T-10-T	O-10-T	120° Arc
O-T-5-150	O-5-150	150° Arc	O-T-8-150	O-8-150	150° Arc	O-T-10-150	O-10-150	150° Arc
O-T-5-H	O-5-H	180° Arc	O-T-8-H	O-8-H	180° Arc	O-T-10-H	O-10-H	180° Arc
O-T-5-210	O-5-210	210° Arc	O-T-8-210	O-8-210	210° Arc	O-T-10-210	O-10-210	210° Arc
O-T-5-TT	O-5-TT	240° Arc	O-T-8-TT	O-8-TT	240° Arc	O-T-10-TT	O-10-TT	240° Arc
O-T-5-TQ	O-5-TQ	270° Arc	O-T-8-TQ	O-8-TQ	270° Arc	O-T-10-TQ	O-10-TQ	270° Arc
O-T-5-F	O-5-F	360° Arc	O-T-8-F	O-8-F	360° Arc	O-T-10-F	O-10-F	360° Arc
3,7m (12') "O" Nozzle (Brown)			4,6m (15') "O" Nozzle (Black)			Special Patterns (Grey)		
Male	Female	Description	Male	Female	Description	Male	Female	Description
O-T-12-60	O-12-60	60° Arc	O-T-15-60	O-15-60	60° Arc	O-T-4X9-RCS	O-4X9-RCS	Right Corner
O-T-12-Q	O-12-Q	90° Arc	O-T-15-Q	O-15-Q	90° Arc	O-T-4X9-LCS	O-4X9-LCS	Left Corner
O-T-12-T	O-12-T	120° Arc	O-T-15-T	O-15-T	120° Arc	O-T-4X18-SST	O-4X18-SST	Side Strip
O-T-12-150	O-12-150	150° Arc	O-T-15-150	O-15-150	150° Arc	O-T-4X15-RCS	O-4X15-RCS	Right Corner
O-T-12-TQ	O-12-H	180° Arc	O-T-15-H	O-15-H	180° Arc	O-T-4X15-LCS	O-4X15-LCS	Left Corner
O-T-12-210	O-12-210	210° Arc	O-T-15-210	O-15-210	210° Arc	O-T-4X30-SST	O-4X30-SST	Side Strip
O-T-12-TT	O-12-TT	240° Arc	O-T-15-TT	O-15-TT	240° Arc			
O-T-12-TQ	O-12-TQ	270° Arc	O-T-15-TQ	O-15-TQ	270° Arc			
O-T-12-F	O-12-F	360° Arc	O-T-15-F	O-15-F	360° Arc			

Specifying Information—Precision™ Series Spray Nozzles

O-X-XXXX-XXXX-P

Nozzle	Thread	Radius		Arc	PCD
O	X	XXXX		XXX	P
O—25mm (1") Per Hour	T—Toro Male Threaded Nozzle Blank—Female Threaded Nozzle	5— 1,5m (5') 8— 2,4m (8') 10— 3,0m (10') 12— 3,7m (12') 15— 4,6m (15')	4X15— 1,2mX4,6m (4'X15') (PCD Models only) 4X30— 1,2mX9,1m (4'X30') (PCD Models only) 4X9— 1,2mX2,7m (4'X9') 4X18— 1,2mX5,5m (4'X18')	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*	P—Pressure Compensating

Example: A female threaded Precision™ Series Spray with a spray radius of 3,7m (12') and a 90° arc would be specified as: O-12-Q

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