

SQ Series, Square Pattern Nozzles

The Most Precise and Efficient, Low-Volume Spray Solution for Irrigation of Small Areas with Dense Plantings

Features

Precision and Efficiency

- Designed to precisely irrigate small areas.
- Great for corners in narrow planting beds, parking lot islands, walkways, parkways, street medians, and around trees and shrubs
- Commercial grade nozzle is pressure compensating and virtually mist-free – even at the maximum operating pressure. This ensures optimum coverage for non-turf applications from 20 to 50 psi.
- Meets micro irrigation system requirement with less than 26 gph flow rate at 30 psi

Versatile Installation

- Simplify design and installation with the flexibility of applications
- Patented design provides the designer and the installer with the option of 2.5' or 4' throws (0.8 m or 1.2 m)
- Can be installed on a variety of spray heads and risers

Savings on Material and Labor Costs

- Unique edge-to-edge capability reduces the number of nozzles needed, which decreases cost and dramatically reduces installation time
- Square spray pattern and pressure compensation offer increased efficiency and control, reducing overspray, property damage, and liability

Operating Range

- Pressure: 20 to 50 psi (1.4 to 3.5 bar)
- Flow rates: 6, 12 and 24 gph (22.7, 45.4 and 90.8 l/h)
- Required filtration: 40 mesh

Models

- SQ-QTR: SQ Nozzle, quarter pattern (Purple)
- SQ-HLF: SQ Nozzle, half pattern (Brown)
- SQ-3QTR: SQ Nozzle, three-quarter pattern (Gray)
- SQ-FUL: SQ Nozzle, full pattern (Red)
- SQ-ADP: SQ PolyFlex Riser Adapter only
- SQ-ADP12: SQ Nozzle Adapter with 12" PolyFlex Riser

Accessories

- PFR-12: 12" PolyFlex Riser (riser tube only)
- PFR-FRA: 12" (30.5 cm) PolyFlex Riser and 1/2" adapter for PVC (SQ-ADP Nozzle Adapter sold separately)
- PFR-FRA24: 24" (61.0 cm) PolyFlex Riser and 1/2" adapter for PVC (SQ-ADP Nozzle Adapter sold separately)
- PFR-RS: 12" (30.5 cm) PolyFlex Riser and 7" (17.8 cm) stake
- SQ-ADP: SQ Nozzle **adapter only** (Connects SQ Nozzles to PolyFlex Risers)
- SQ-ADP12: SQ Nozzle adapter with 12" PolyFlex Riser
- XQ-100: 1/4" Distribution tubing for PFR-RS Riser



SQ Nozzles with Screens

One Nozzle...Two Throws

With a simple turn of the nozzle to the next preset stop, the Rain Bird SQ Nozzle adjusts from a 2.5' (0.8 m) throw to a 4' (1.2 m) throw. It's like having two nozzles in one.



Can be used on...

The SQ Nozzle is an ideal solution for a wide range of difficult-to-design areas, thanks to its compatibility with popular irrigation products.



1800° Series
Spray Heads

Xeri-Pop
Spray Heads

Polyflex
Risers

Schedule 80
Risers



SQ-QTR

SQ-HLF

SQ-ADP

SQ-3QTR

SQ-FUL

SQ Nozzle Performance					
2.5 feet throw @ 6" height above grade					
Nozzle	Pressure psi	Throw Radius ft.	Flow gph	Flow gpm	Precip.Rate w/no overlap in/h
	20	2.5	6.0	0.11	1.64
	30	2.5	7.0	0.12	1.90
	40	3.0	7.2	0.12	1.32
	50	3.0	7.2	0.12	1.32
	20	2.5	10.2	0.17	1.31
	30	2.5	10.7	0.20	1.57
	40	3.0	10.7	0.23	1.22
	50	3.0	10.7	0.23	1.22
	20	2.5	16	0.27	1.37
	30	2.5	18	0.30	1.54
	40	3.0	21	0.35	1.25
	50	3.0	21	0.35	1.25
	20	2.5	20.0	0.33	1.28
	30	2.5	24.2	0.40	1.55
	40	3.0	27.3	0.46	1.22
	50	3.0	27.3	0.46	1.22

SQ Nozzle Performance						METRIC
0.8 m throw @ 0.15 m height above grade						
Nozzle	Pressure bar	Throw Radius m	Flow lph	Flow lpm	Precip.Rate w/no overlap mm/h	
	1.4	0.8	24	0.38	41.66	
	2.1	0.8	28	0.45	48.26	
	2.8	0.9	28	0.45	33.53	
	3.4	0.9	28	0.45	33.53	
	1.4	0.8	39	0.64	33.27	
	2.1	0.8	46	0.68	39.88	
	2.8	0.9	52	0.68	30.99	
	3.4	0.9	52	0.68	30.99	
	1.4	0.8	61	1.01	34.77	
	2.1	0.8	68	1.14	39.12	
	2.8	0.9	79	1.32	31.69	
	3.4	0.9	79	1.32	31.69	
	1.4	0.8	76	1.25	32.51	
	2.1	0.8	92	1.51	39.37	
	2.8	0.9	103	1.74	30.99	
	3.4	0.9	103	1.74	30.99	

SQ Nozzle Performance					
4 feet throw @ 6" height above grade					
Nozzle	Pressure psi	Throw Radius ft.	Flow gph	Flow gpm	Precip.Rate w/no overlap in/h
	20	4.0	6	0.10	0.64
	30	4.0	7	0.12	0.74
	40	4.5	7.2	0.12	0.59
	50	4.5	7.2	0.12	0.59
	20	4.0	10.2	0.17	0.51
	30	4.0	10.7	0.18	0.61
	40	4.5	10.7	0.18	0.54
	50	4.5	10.7	0.18	0.54
	20	4.0	16	0.27	0.53
	30	4.0	18	0.30	0.60
	40	4.5	21	0.35	0.55
	50	4.5	21	0.35	0.55
	20	4.0	20.0	0.33	0.50
	30	4.0	24.2	0.40	0.61
	40	4.5	27.3	0.46	0.54
	50	4.5	27.3	0.46	0.54

SQ Nozzle Performance						METRIC
1.2 m throw @ 0.15 m height above grade						
Nozzle	Pressure bar	Throw Radius m	Flow lph	Flow lpm	Precip.Rate w/no overlap mm/h	
	1.4	1.2	23	0.38	16.26	
	2.1	1.2	26	0.45	18.80	
	2.8	1.4	27	0.45	14.99	
	3.4	1.4	27	0.45	14.99	
	1.4	1.2	39	0.64	12.95	
	2.1	1.2	40	0.68	15.49	
	2.8	1.4	40	0.68	13.72	
	3.4	1.4	40	0.68	13.72	
	1.4	0.8	61	1.01	13.58	
	2.1	0.8	68	1.14	15.28	
	2.8	0.9	79	1.32	14.08	
	3.4	0.9	79	1.32	14.08	
	1.4	1.2	76	1.25	12.70	
	2.1	1.2	92	1.51	15.49	
	2.8	1.4	103	1.74	13.72	
	3.4	1.4	103	1.74	13.72	

Performance data taken in zero wind conditions

SQ Nozzles











