

SQ Series, Square Pattern Nozzles (formerly known as XPCN)

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

- Square spray pattern and pressure compensation offer increased efficiency and control, reducing overspray, property damage and liability
- Unique edge-to-edge capability reduces the number of nozzles needed, which decreases cost and dramatically reduces installation time
- Simplify design and installation with the flexibility of applications: one nozzle throws 2.5' or 4' (0.8 m or 1.2 m) and can be used on a variety of spray heads and risers
- Meets micro irrigation system requirement for less than 26 gph flow rate at 30 psi

Features

- Square spray pattern with edge-to-edge coverage allows you to easily design and install in small spaces
- Pressure compensation design delivers uniform flow over the pressure range
- Available in 3 models—quarter, half and full patterns with matched precipitation rate
 - Virtual no-mist performance from 20 psi to 50 psi
 - Two throw distances in each nozzle. One simple click adjusts to 2.5' or 4' (0.8 m or 1.2 m)
 - Shipped with blue filter screen (0.02" x 0.02") to maintain precise distance of flow, and to prevent clogging
- Compatible with all 1800 Sprays, Xeri-Pops, New PolyFlex Riser Adapter, UNI-Spray and SCH 80 risers

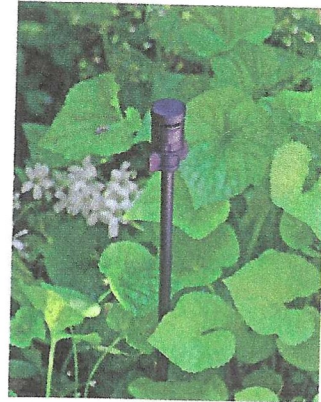
Operating Range

- 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
- SQ HLF: SQ Nozzle, half pattern
- SQ FUL: SQ Nozzle, full pattern
- SQ ADP12: SQ Nozzle Adapter with 12" PolyFlex Riser
- SQ ADP24: SQ Nozzle Adapter with 24" PolyFlex Riser
- SQ ADP: SQ PolyFlex Riser Adapter only
- SQ VARPAK: (2) full, (4) quarter, and (4) half pattern SQ Nozzles

* **Note:** A PA-8S Plastic Shrub Adapter (see page 14) is needed when using an SQ Series Nozzle mounted on a SCH 80 riser.



SQ Nozzle Installed on PolyFlex Riser
with Nozzle Adapter



SQ Nozzles with Screens

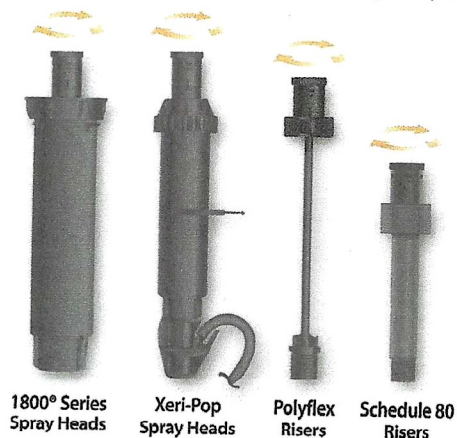
One Nozzle...Two Throws

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.



One Nozzle...Two Throws

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 Series Nozzles provide a precise square wetting pattern and efficient water placement with pressure compensation – resulting in up to 65% water savings. They are great for narrow planting beds, parking lot islands, walkways, parkways, and street medians.

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	6.4	0.11	1.64
	30	2.5	7.4	0.12	1.90
	40	3.0	7.4	0.12	1.32
	50	3.0	7.4	0.12	1.32
	20	2.5	10.2	0.17	1.31
	30	2.5	12.2	0.20	1.57
	40	3.0	13.7	0.23	1.22
	50	3.0	13.7	0.23	1.22
	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	Throw Pressure bar	Radius m.	Flow lph	Flow lpm	Precip. Rate w/no overlap mm/h	
	1.4	0.8	24	0.40	42	
	2.1	0.8	28	0.47	48	
	2.8	0.9	28	0.47	34	
	3.4	0.9	28	0.47	34	
	1.4	0.8	39	0.65	33	
	2.1	0.8	46	0.77	40	
	2.8	0.9	52	0.87	31	
	3.4	0.9	52	0.87	31	
	1.4	0.8	76	1.27	33	
	2.1	0.8	92	1.53	39	
	2.8	0.9	103	1.72	31	
	3.4	0.9	103	1.72	31	



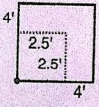
SQ Nozzle Performance					
4 feet throw @ 6" height above grade					
Nozzle	Pressure psi	Throw Radius ft.	Flow gph	Flow gpm	Precip. Rate w/no overlap in/h
	20	4.0	6.4	0.11	0.64
	30	4.0	7.4	0.12	0.74
	40	4.5	7.4	0.12	0.59
	50	4.5	7.4	0.12	0.59
	20	4.0	10.2	0.17	0.51
	30	4.0	12.2	0.20	0.61
	40	4.5	13.7	0.23	0.54
	50	4.5	13.7	0.23	0.54
	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	Throw Pressure bar	Radius m.	Flow lph	Flow lpm	Precip. Rate w/no overlap mm/h	
	1.4	1.2	24	0.40	16	
	2.1	1.2	28	0.47	19	
	2.8	1.4	28	0.47	15	
	3.4	1.4	28	0.47	15	
	1.4	1.2	39	0.65	13	
	2.1	1.2	46	0.77	16	
	2.8	1.4	52	0.87	14	
	3.4	1.4	52	0.87	14	
	1.4	1.2	76	1.27	13	
	2.1	1.2	92	1.53	15	
	2.8	1.4	103	1.72	14	
	3.4	1.4	103	1.72	14	



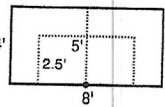
Performance data taken in zero wind conditions

SQ Nozzles

Quarter Model

Half Model

Full Model

