

Rain Bird® SQ Series, Square Pattern Nozzles and Poly Flex Riser Adapter

The Smart Solution for Smaller Spaces

Rain Bird's new push-mount SQ Series, Square Pattern Nozzle is the most precise and efficient, commercial-grade, low-volume spray solution for irrigation of small areas with dense plantings. The SQ looks like any MPR nozzle and installs on most common spray heads. It adjusts from 2.5' square to 4' square pattern in a single click.

Pressure Compensating/Commercial Grade

Unlike conventional micro-sprays, Rain Bird's patent-pending SQ is pressure compensating, commercial grade, and virtually mist-free – even at the maximum operating pressure. This ensures optimum coverage for non-turf applications from 20 to 50 psi.

One Nozzle...Two Throws

The SQ is the only edge to edge capable nozzle on the market delivering superior soil moisture content and uniformity. The patent-pending design provides the designer and the installer with the option of 2.5' or 4' throws in a quarter, half or full square pattern. The SQ threads onto any standard 1/2" MPT connection or, for added versatility, use the patent-pending PFR Adapter.

SQ Features

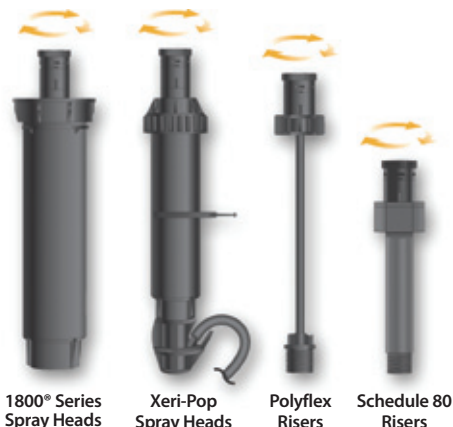
- Commercial-grade pressure compensating nozzle
- Available in 3 models
 - SQ-QTR – Quarter pattern (90° square)
 - SQ-HLF – Half pattern (180° square)
 - SQ-FUL – Full pattern (360° square).
- Compatible with all 1800® Series, Xeri-Pop Series, PFR Adapter, UNI-Spray Series and SCH 80 risers
- Shipped with blue filter screen (.02 x .02) to maintain precise throw and prevent clogging
- Virtual no-mist performance from 20 to 50 psi
- 2 throw distance options in each nozzle. One click lets you adjust from 2.5' to 4' (0.8m to 1.2m)
- Poly Flex Riser Adapter sold with either 12" or 24" Poly Flex Riser
- Patent-pending



SQ Nozzle Installed on PolyFlex Riser with Nozzle Adapter

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.



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.

How To Specify

1404

Model
1300A-F
1401
1403
1404
1408

Specifications




SQ Series, Square Pattern Nozzle




The nozzle shall have matched precipitation rates for each model. The nozzle shall be capable of covering a _____(ft.)/(meter) radius at _____(psi)/(bar) with a discharge rate of _____(gpm)/(m³/h).




The SQ is intended for use with the 1800 Series, Xeri-Pop Series, PFR Adapter, UNI-Spray Series or SCH 80 risers. The SQ is constructed of UV resistant ABS plastic. The SQ shall be pressure compensating and factory manufactured by Rain Bird Corporation, Azusa, CA.




The Poly Flex Riser Adapter

The Poly Flex Riser Adapter shall be molded of ABS plastic material. The PFR Adapter shall be designed to fit onto either a 12" or 24" Poly Flex Riser Assembly.

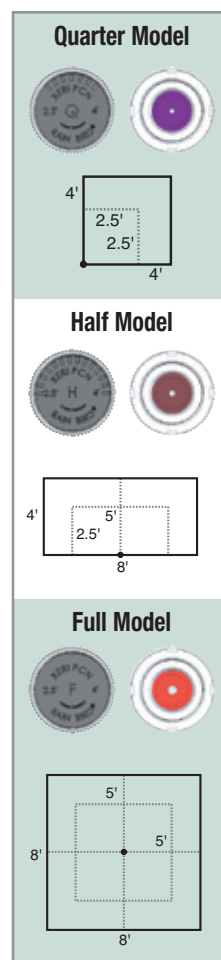
SQ Nozzle Performance					
2.5 feet throw @ 6" height above grade					
Nozzle	Pressure psi	Throw Radius ft.	Flow gph	Flow gpm	Precip. Rate w/no overlap in/h
	20	2.5	6.4	0.11	1.64
	30	2.5	7.4	0.12	1.90
	40	3.0	7.4	0.12	1.32
	50	3.0	7.4	0.12	1.32
	20	2.5	10.2	0.17	1.31
	30	2.5	12.2	0.20	1.57
	40	3.0	13.7	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



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