

ST-1600-KIT

This all-in-one solution offers unmatched cooling, cleaning, and better playability capabilities to prepare synthetic turf sports fields.

KEY BENEFITS

- Through-the-top design permits easy access to all irrigation components for quick servicing and maintenance
- Proven isolated, grease-lubricated gear drive delivers consistent, top performance
- Flexible arc adjustment from 40° to non-reversing 360° with left and right movable stops makes it easy to set a precise arc
- Ratcheting nozzle turret for simple setup
- Adjustable speed of rotation up to 65 seconds enables quick wetting where dust control is needed
- Stainless steel and brass internal construction for long-term reliability
- Six nozzle choices included from #16 to #26 (#20 standard) with 25° trajectory for choosing the perfect option
- Adjustable speed of rotation: 0 to 65 seconds (High-speed models: 180° at 120 PSI)
- Warranty period: 5 years for component parts



OPERATING SPECIFICATIONS

- Radius: 107' to 165'
- Flow: 96.2 to 326.8 GPM
- Operating pressure range: 60 to 120 PSI
- Precipitation rate: 2.25 in/hr approximately

USER-INSTALLED OPTIONS

- Simulated concrete cover for attachment for flattened IBS (used with vault): P/N ST-FRP-1600
- ST approved adhesive for attaching artificial turf, track, or ST-FRP-1600 to infill barrier system: P/N ST-ADH-K
- ST-1600 Short-Radius Nozzle Kit: P/N959900
- DC-Latching Solenoid Kit: P/N ST-LSA

ST-1600 NOZZLE PERFORMANCE DATA

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr	
				■	▲
16	60	107	96.2	1.63	1.88
	75	115	107.3	1.57	1.81
	90	121	117.8	1.54	1.78
	105	128	127.3	1.50	1.73
	120	135	137.4	1.46	1.69
18	60	112	107.0	1.66	1.91
	75	121	119.4	1.56	1.80
	90	128	131.0	1.54	1.78
	105	133	141.3	1.54	1.78
	120	141	153.2	1.48	1.71
20	60	115	144.0	2.10	2.43
	75	128	160.9	1.89	2.18
	90	141	176.5	1.71	1.97
	105	144	190.5	1.76	2.03
	120	148	204.2	1.80	2.08
22	60	118	171.5	2.37	2.73
	75	130	191.8	2.20	2.54
	90	144	210.0	1.94	2.24
	105	154	226.9	1.84	2.12
	120	157	243.1	1.89	2.18
24	60	121	202.1	2.64	3.05
	75	133	225.9	2.46	2.84
	90	148	247.6	2.19	2.52
	105	156	267.4	2.12	2.45
	120	160	286.4	2.16	2.49
26	60	126	233.2	2.83	3.27
	75	136	260.4	2.71	3.13
	90	151	284.5	2.40	2.77
	105	160	307.0	2.31	2.67
	120	165	326.8	2.32	2.68

Note: All precipitation rates are calculated for 180° operation. For the precipitation rate of a 360° sprinkler, divide by 2.

ST-1600 SHORT-RADIUS NOZZLE KIT PERFORMANCE CHART

Nozzle	Pressure	Radius	Flow	Precipitation in/hr	
				■	▲
	PSI	ft	GPM		
8	60	70	23.3	0.92	1.06
	70	72	25.5	0.95	1.09
	90	74	27.3	0.96	1.11
	100	76	29.2	0.97	1.12
10	60	81	37.8	1.11	1.28
	70	84	42.5	1.16	1.34
	90	86	47.1	1.23	1.42
	100	88	51.0	1.27	1.46
12	60	92	53.9	1.23	1.42
	70	94	60.5	1.32	1.52
	90	96	65.7	1.37	1.58
	100	98	71.8	1.44	1.66
14	60	103	69.3	1.26	1.45
	70	105	78.2	1.37	1.58
	90	108	85.5	1.41	1.63
	100	110	92.5	1.47	1.70

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