

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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