

# ST-1600-HS-BR

In addition to synthetic turf, this heavy-duty rotor is designed for pastures, horse arenas, dust control, and natural turf areas.

## KEY BENEFITS

- 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 22.5° trajectory for choosing the perfect option



## OPERATING SPECIFICATIONS

- Nozzle trajectory: 25°
- 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
- Warranty period: 5 years for component parts

## USER-INSTALLED OPTIONS

- Adapter, 2" male spigot x 2" male BSP: P/N 241400SP
- ST-1600 Short-Radius Nozzle Kit: P/N 959900

ST-1600 NOZZLE PERFORMANCE DATA

| Nozzle | Pressure<br>PSI | Radius<br>ft. | Flow<br>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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<https://www.hunterindustries.com/irrigation-product/st-system/st-1600-hs-br>  
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