**Hunter ST-1600-HS-BR Synthetic Turf Rotor Written Specifications**

**Part 1 – General**

1.1The ST-1600-HS-BR Synthetic Turf Rotor is a long-range, riser-mounted, gear-driven sprinkler designed to irrigate corrals, pastures, arenas, and synthetic turf.

**Part 2 – Parts and Material**

2.1The ST-1600-HS-BR shall be available with the following features

1. The sprinkler shall be constructed from corrosion- and impact-resistant ABS plastic.
2. The sprinkler shall be available with one preinstalled nozzle and five interchangeable nozzles in flow rates from 96.2 to 326.8 GPM (2.08 to 74.2 m3/hr; 364 to 1,237 l/min).
3. The sprinkler shall have a ratcheting mechanism within the gear drive that allows full rotational movement of the nozzle turret assembly without damage to the sprinkler.
4. The sprinkler shall have a brass adjustment knob that provides the means to change the sprinkler’s speed of rotation. The ST-1600-HS-BR speed of adjustment range for a 180° arc setting shall be zero (no rotation) up to 65 seconds at 120 PSI (8 bar; 800 kPa).
5. The arc of the sprinkler shall be adjustable from 40° to 360°.
6. The sprinkler shall be adjustable in all phases of installation (i.e., before installation, after installation while static, and after installation while in operation). The sprinkler shall come with a preinstalled #20 nozzle.
7. Additional nozzles shall come prepackaged in the box along with the rotor.

2.2. Rotor dimensions

 A. ST-1600-HS-BR

* + - Overall height: 8¾" (22 cm)
		- Diameter: 8¼" (21 cm)
		- Inlet size: 2" (50 mm) female BSP

2.3 Warranty

 A. The sprinkler shall carry a five-year component part warranty.

**Part 3 – Function and Operation**

3.1 Recommended pressure range: 60 to 120 PSI (4.0 to 8.0 bar; 400 to 800 kPa)

 A. Operating pressure range: 60 to 120 PSI (4.0 to 8.0 bar; 400 to 800 kPa)

3.2Radius: 107' to 165' (32.5 to 50.3 m)

3.3 Flow rate: 96.2 to 326.8 GPM (21.8 to 74.2 m3/hr; 364 to 1237 l/min)

3.4 Precipitation rate: 2.25 in/hr (60 mm/hr), approximately

3.5 Nozzle trajectory: Standard: 25°, approximately

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