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

**Part 1 – General**

1.1The ST-1600-HS-B Synthetic Turf Rotor shall be of the gear-driven, rotary type, capable of covering a 107' to 165' (32.5 to 50.3 m) radius at 60 to 120 PSI (4.0 to 8.0 bar; 400 to 800 kPa) with a discharge rate of 96.2 to 326.8 GPM (21.8 to 74.2 m3/hr; 364 to 1,237 l/min).

**Part 2 – Parts and Material**

2.1The ST-1600-HS-B shall be available in the following versions: 5" (13 cm) pop-up.

1. The sprinkler shall be constructed from corrosion- and impact-resistant ABS plastic.
2. The sprinkler shall include within its packaging one preinstalled nozzle and five interchangeable nozzles discharging 96.2 GPM to 326.8 GPM (21.8 to 74.2 m3/hr; 364 to 1237 l/min).
3. The sprinkler shall be capable of both full-circle and adjustable part-circle configurations in one sprinkler.
4. The adjustable part-circle feature shall be minutely adjustable from 40° to 360°.
5. The sprinkler shall be adjustable in all phases of installation (i.e., before installation, after installation while static, and after installation while in operation).
6. 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.
7. The sprinkler shall have a brass adjustment knob that provides the means to change the sprinkler’s speed of rotation.
8. The ST-1600-HS-B 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).
9. The pop-up assembly shall be constructed of solid tubular stainless steel and have a solid brass machined base.
10. The pop-up assembly shall have a stainless-steel retraction spring.
11. The pop-up assembly shall be protected from external contamination by a telescoping rubberized boot that is sealed at both ends.
12. The sprinkler shall have a rubber cover firmly attached to the top of the riser.
13. The sprinkler shall have an exposed surface diameter after installation of 14" (36 cm) and have an overall height of 22½" (57 cm).
14. The unit shall have a female 2" (50 mm) BSP inlet.
15. The sprinkler shall be adaptable to 2" (50 mm) standard PVC piping with an optional adapter fitting.

2.2. Rotor dimensions

 A. ST-1600-HS-B

* + - Pop-up height: 5" (13 cm)
		- Overall height: 22½" (57 cm)
		- Exposed diameter: 14" (36 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 1,237 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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