I-90 Written Specifications

**Part 1 – General**

1.1The I-90 is a long-distance rotary gear-driven sprinkler for natural turf, parks, sports fields, and public areas. It features a jar-top body cap that allows for quick access to the filter screen and check valve with no extra pieces, parts, or tools required.

**Part 2 – Parts and Material**

2.1The I-90 shall be available in the following versions: 3" (8 cm) pop-up.

1. The sprinkler shall be constructed from corrosion- and impact-resistant ABS plastic.
2. The sprinkler shall have a ratcheting, stainless steel riser.
3. The sprinkler shall be equipped with a durable, stainless steel riser spring.
4. The sprinkler shall be available with an optional opposing nozzle housing.
5. The sprinkler shall be available with 12 nozzle choices in flow rates from 29.5 to 83.8 GPM (6.7 to 19.04 m3/hr; 111.7 to 317.2 l/min).
6. The arc of the sprinkler shall be adjustable from 40° to 360°.
7. The sprinkler shall be equipped with through-the-top arc adjustment.
8. The sprinkler shall be equipped with a QuickCheck™ arc mechanism.
9. The sprinkler shall be equipped with a factory-installed rubber cover.
10. The sprinkler shall be equipped with a standard drain check valve to hold back up to 9'
(2.7 m) of elevation.
11. The sprinkler shall be available in a reclaimed water ID version.
12. The sprinkler shall be available with a user-installed rubber cover kit.
13. The sprinkler shall be available with a user-installed turf cup.

2.2. Rotor dimensions

 A. I-90

* + - Pop-up height: 3" (8 cm)
		- Overall height: 11" (28 cm)
		- Exposed diameter: 3½" (9 cm)
		- Inlet size: 1½" (40 mm) female NPT

2.3 Warranty

 A. The sprinkler shall carry a five-year exchange warranty.

**Part 3 – Function and Operation**

3.1 Recommended pressure range: 80 to 120 PSI (5.5 to 8.0 bar; 550 to 800 kPa)

 A. Operating pressure range: 70 to 120 PSI (5.0 to 8.0 bar; 500 to 800 kPa)

3.2Radius: 73' to 104' (22.3 to 31.4 m)

3.3 Flow rate: 29.5 to 83.3 GPM (6.7 to 19.04 m3/hr; 111.7 to 317.2 l/min)

3.4 Precipitation rate: 0.75 in/hr (19 mm/hr) approximately

3.5 Nozzle trajectory: Standard: 22.5° approximately, Low-angle: 15° approximately

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