I-80 Written Specifications

**Part 1 – General**

1.1The I-80 is a rotary gear-driven sprinkler for sports turf and large park applications. It features an ultra-robust, dirt-tolerant gear drive that offers the highest torque output of any rotor in the commercial sector.

**Part 2 – Parts and Material**

2.1The I-80 shall be available in the following versions: 4" (10 cm) pop-up, 4" (10 cm) pop-up opposing nozzle, 4" (10 cm) pop-up with turf cup, 4" (10 cm) pop-up with turf cup and opposing nozzle.

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 (ON) housing.
5. The sprinkler shall be available with 7 nozzle choices in flow rates from 20.2 to 59.6 GPM (4.59 to 13.5 m3/hr; 76.5 to 225.6 l/min) for conventional models and 21.6 to 58.5 GPM (4.91 to 13.3 m3/hr; 81.8 to 221.4 l/min) for ON models.
6. The sprinkler shall be equipped with a non-strippable gear drive.
7. The arc of the sprinkler shall be adjustable from 70° to 360°.
8. The sprinkler shall be equipped with a factory-installed rubber cover.
9. The sprinkler shall be equipped with a standard drain check valve to hold back up to 5'   
   (1.5 m) of elevation.
10. The sprinkler shall be available in a reclaimed water ID version.
11. The sprinkler shall be available with a user-installed rubber cover kit.
12. The sprinkler shall be available with a user-installed turf cup.

2.2. Rotor dimensions

A. I-80-04-SS pop-up, I-80-04-SS-ON pop-up

* + - Pop-up height: 3¾" (9.5 cm)
    - Overall height: 9¾" (25 cm)
    - Exposed diameter: 4⅜" (11 cm)
    - Inlet size: 1½" (40 mm)

B. I-80-04-SS-TC turf cup, I-80-04-SS-TC-ON turf cup

* + - Pop-up height: 3¾" (9.5 cm)
    - Overall height: 11½" (29 cm)
    - Exposed diameter: 3½" (8.9 cm)
    - Inlet size: 1½" (40 mm)

2.3 Warranty

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

**Part 3 – Function and Operation**

3.1 Operating pressure range: 50 to 100 PSI (3.4 to 6.9 bar; 340 to 690 kPa)

3.2Radius: 65' to 94' (19.8 to 28.7 m) conventional, 63' to 97' (19.2 to 29.6 m) ON

3.3 Flow rate: 20.2 to 59.6 GPM (4.59 to 13.5 m3/hr; 76.5 to 225.6 l/min) for conventional models and 21.6 to 58.5 GPM (4.91 to 13.3 m3/hr; 81.8 to 221.4 l/min)

3.4 Nozzle trajectory: Standard = 22.5° approximately

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