I-50 Written Specification

**Part 1 – General**

1.1The I-50 is a rotary gear driven sprinkler for commercial applications. It features an ultra-robust, dirt tolerant gear drive that offers the highest torque output of any rotor in the commercial arena.

**Part 2 – Parts and Material**

2.1The I-50 Shall be available in the following versions: 6” Pop-up.

1. The sprinkler shall be constructed from corrosion and impact resistant ABS plastic.
2. The sprinkler shall be equipped with a durable stainless-steel riser spring.
3. The sprinkler shall be available with an optional opposing nozzle housing.
4. The sprinkler shall be available with 12 nozzle choices in flow rates from 7.6 to 29.5 GPM conventional and 13.0 to 33.7 GPM ON.
5. The sprinkler shall be equipped with a non-strippable gear drive.
6. The arc of the sprinkler shall be adjustable from 60-360 degrees.
7. The sprinkler shall be equipped with a quick check arc mechanism.
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 15’ of elevation.
10. The sprinkler shall be available in a reclaimed water ID version.

2.2. Rotor dimensions

 I-50-06

 Pop-up height: 6”

 Overall height: 10 1/4”

 Exposed diameter: 2”

 Inlet size: 1” NPT

2.3 Warranty

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

**Part 3 – Function and Operation**

3.1 Recommended pressure range: 40 to 100 PSI

 A. Operating pressure range: 40 to 100 PSI

3.2Radius: 44’ to 69’ conventional, 52’ to 76’ ON

3.3 Flow rate: 7.6 to 29.5 GPM conventional, 13.0 to 33.7 GPM ON

3.4 Precipitation rate: 0.4 in/hr approx.

3.5 Nozzle trajectory: 25 degrees approx.