



# Saturn IV™ Professional GEAR DRIVE SPRINKLER



| Saturn IV™ Nozzle Performance Data |                 |             |             |               |       |
|------------------------------------|-----------------|-------------|-------------|---------------|-------|
| Nozzle                             | Pressure<br>KPa | Radius<br>M | Flow<br>LPM | Precip mm/hr. |       |
|                                    |                 |             |             | ■             | ▲     |
| .75                                | 207             | 4.6         | 2.42        | 13.97         | 16.00 |
|                                    | 276             | 4.9         | 2.84        | 14.22         | 16.51 |
|                                    | 345             | 5.2         | 3.21        | 14.48         | 16.51 |
| 1                                  | 207             | 5.5         | 3.21        | 12.95         | 14.73 |
|                                    | 276             | 5.8         | 3.78        | 13.46         | 15.75 |
|                                    | 345             | 5.8         | 4.16        | 14.99         | 17.27 |
| 1.5                                | 207             | 6.4         | 4.91        | 14.48         | 16.76 |
|                                    | 276             | 6.7         | 5.67        | 15.24         | 17.53 |
|                                    | 345             | 6.7         | 6.43        | 17.27         | 19.81 |
| 2                                  | 207             | 7.3         | 6.43        | 14.48         | 16.76 |
|                                    | 276             | 7.6         | 7.56        | 15.75         | 18.03 |
|                                    | 345             | 7.6         | 8.69        | 18.03         | 20.83 |
| 2.5                                | 207             | 8.2         | 8.32        | 14.73         | 17.02 |
|                                    | 276             | 8.5         | 9.45        | 15.49         | 18.03 |
|                                    | 345             | 8.5         | 10.58       | 17.53         | 20.07 |
| 3                                  | 207             | 9.1         | 9.45        | 13.46         | 15.75 |
|                                    | 276             | 9.5         | 11.34       | 15.24         | 17.53 |
|                                    | 345             | 9.5         | 12.85       | 17.27         | 20.07 |
| 4                                  | 207             | 10          | 13.99       | 16.51         | 19.30 |
|                                    | 276             | 10.4        | 15.12       | 17.02         | 19.56 |
|                                    | 345             | 10.4        | 16.25       | 18.29         | 21.08 |
| 5                                  | 207             | 11          | 17.77       | 17.78         | 20.57 |
|                                    | 276             | 11.3        | 18.90       | 17.78         | 20.57 |
|                                    | 345             | 11.3        | 20.03       | 19.05         | 21.84 |

■ Denotes square spacing.

▲ Denotes equilateral triangular spacing.

Data represent test results in zero wind. Adjust for local conditions.

Note: To ensure optimum nozzle performance, the rotor should be operated in the "Recommended Pressure Range." The sprinkler will work normally when used in the "Operating Pressure Range," but nozzle performance may be reduced. [Optimum nozzle performance is shown in bold.]

PN 96079-24 rA



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**PROOF NO:** 3

**DATE:** 04.07.11

**DES:** SM SPCK: XX

**JOB NO:** NA

**CLIENT:** Orbit

**SKU:** 96079

**UPC:** NA

**FILE NAME:** 96079-24 rA.indd

**SOFTWARE:** InDesign CS5

**DIMENSIONS:**

**FLAT:** W: 7.5" H: 5.5"

**FINISHED (FOLDED):** W 3.75" D: 0" H 5.5"

**COLORS**



Registration



color  
non printing



color  
non printing



K



PMS  
????



PMS  
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PMS  
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**ADDITIONAL INSTRUCTIONS:**

· Translations Approval Code:

Printers are responsible for meeting print production requirements. Any changes must be approved by the client and Fluid Studio.

**PRINTED PIECE MUST MEET DESIGNATED SPECIFICATIONS ON THIS FORM.**

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## READ ALL INSTRUCTIONS PRIOR TO INSTALLATION

### Set the pattern before installation

The Saturn IV™ can be set to rotate between 40° and 360° (preset at 180°)

1. Turn the top of the head all the way to the left until it stops and then all the way to the right. The top of the head must be in this position to make pattern adjustments. (Figure 1).



Figure 1

2. Insert the plastic end of the key into the pattern adjustment hole (Figure 2).



Figure 2

Distance Adjustment  
Lifter Socket  
Pattern Adjustment

3. Turn clockwise to increase rotation; counterclockwise to decrease rotation. Each full turn increases/decreases rotation by 90° (Figure 3).



Figure 3

### Head installation

1. Flush sprinkler lines.
2. Thread the sprinkler onto a riser and set the head flush with the finished turf height (Figure 4).  
**Note:** DO NOT use pipe dope on the threads. If necessary, use thread seal tape.

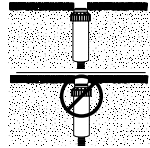


Figure 4

### Set the spray distance after installation

Set with water on under system's normal operating pressure.

**Note:** Preinstalled nozzle (# 7) adjusts from 7.6 Meters to 13.7 Meters depending on system water pressure.

1. Insert the hex (metal) end of the key into the distance adjustment slot (Figure 2).
2. Turn clockwise to decrease distance; counterclockwise to increase distance.

**Caution:** DO NOT turn the adjustment screw too far in either direction—screw may come free of threads.

### Replace the nozzle

See Nozzle Specs for other distance ranges and replace the nozzle if needed.

1. To access the nozzle, insert the plastic end of the key into the lifter socket (Figure 2).
2. Turn the key 90° and pull upward.

**Note:** the spring inside the canister is very strong.

3. Firmly grip the sprinkler stem.
4. Insert the hex (metal) end of the key into the distance adjustment slot (Figure 2).
5. Turn the screw counterclockwise until it is just clear of the nozzle.
6. Apply water pressure to your system and the nozzle will pop-out of the head. Or use pliers to grip the edge of the nozzle and pull it out.
7. Insert the replacement nozzle so that the diffuser screw channel is on top and turn the diffuser screw back into place. (Figure 5).
8. Adjust distance if necessary (see Set the Spray Distance).



Figure 5

### Clean the filter

1. Remove grass and dirt around the sprinkler head so you can see the top 38 mm.
2. Unscrew the cap and remove the stem assembly.
3. Use pliers to extract the filter from the bottom of the stem assembly.
4. Clean out debris and replace filter.
5. Replace the stem assembly to the sprinkler body and tighten cap.

### CAUTION

- For outdoor use with cold water only.
- Do not spray near electrical connections.



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