

MADE  
IN THE  
U.S.A.

 **NELSON**



3/4"

# R33 ROTATOR®

# FIELD-PROVEN TECHNOLOGY



## ROTATOR® TECHNOLOGY OBSOLETE THE IMPACT SPRINKLER



A new standard of PERFORMANCE and VALUE from a brand recognized and trusted for high quality irrigation products — Nelson introduces the new R33 Rotator sprinkler.

- ◆ HIGH UNIFORMITY
- ◆ EASY TO CLEAN
- ◆ LONG WEAR LIFE
- ◆ EASY TO REPAIR







The R33 Rotator® from Nelson Irrigation is an innovation that saves money, saves time and performs better than the 3/4" brass impact sprinklers it's designed to replace.

Created as an upgrade to replace the Nelson F33 brass sprinkler, the R33 uses Nelson's proven Rotator Technology to provide longer throw distance, fight the wind better and deliver uniform coverage. With new advancements in speed control, our breakthrough design allows the sprinkler to move from slow mode back to a fast mode throughout its rotation. By reducing the speed of rotation intermittently, the R33 produces a wind-fighting pattern with maximum throw distance. The fast mode also assists in filling out the water pattern for greater uniformity.

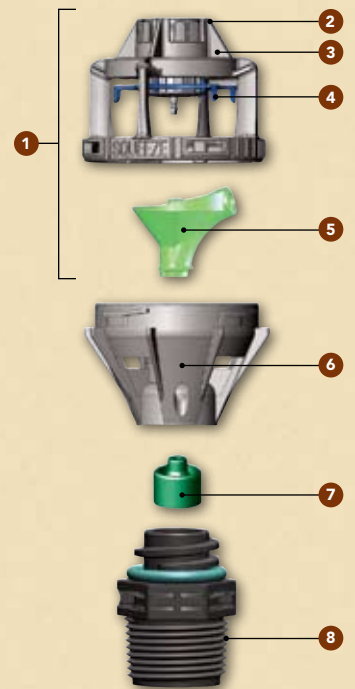
While brass sprinklers are prone to damage, clogging and theft, the R33 is easy to clean, easy to repair and costs less to replace.

The R33 is suitable for permanent-set, portable-pipe and wheel-line applications for all type of crops, including forage crops, vegetables, grain and pastures, as well as tree and vine crops.

# R33

Learn more about the R33 Rotator and other innovative products from Nelson Irrigation. Visit [www.NelsonIrrigation.com](http://www.NelsonIrrigation.com) or call 1.509.525.7660.

## R33 PARTS



**Quick, snap-apart design allows for easy nozzle cleaning.**

- 1 - Cap Assembly
- 2 - Motor
- 3 - Cap
- 4 - Diffuser
- 5 - Plate
- 6 - Body
- 7 - 33TN Nozzle (color coded)
- 8 - Quick Change Adapter (3/4" MNPT)



## R33 ROTATOR® PLATE/NOZZLE OPTIONS AND FLOW PERFORMANCE IN GPM AND LPH

| US UNITS      |             | PRESSURE IN PSI |    |      |    |      |    |      |    |      |    |      |    |
|---------------|-------------|-----------------|----|------|----|------|----|------|----|------|----|------|----|
| Model / Plate | 33TN Nozzle | 40              |    | 45   |    | 50   |    | 55   |    | 60   |    | 65   |    |
|               |             | GPM             | R  | GPM  | R  | GPM  | R  | GPM  | R  | GPM  | R  | GPM  | R  |
| R33 Gold 18   | 9/64"       | 3.64            | 44 | 3.86 | 45 | 4.07 | 45 | 4.27 | 45 | 4.46 | 46 | 4.65 | 45 |
| R33 Brown 20  | 5/32"       | 4.45            | 46 | 4.72 | 47 | 5    | 48 | 5.22 | 48 | 5.45 | 48 | 5.68 | 47 |
| R33 Gray 22   | 11/64"      | 5.37            | 48 | 5.7  | 49 | 6.01 | 50 | 6.3  | 50 | 6.57 | 49 | 6.83 | 48 |
| R33 Green 24  | 3/16"       | 6.38            | 49 | 6.78 | 50 | 7.16 | 51 | 7.52 | 51 | 7.85 | 51 | 8.18 | 50 |

| METRIC UNITS  |        | PRESSURE IN BAR |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------|--------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Model / Plate | Nozzle | 2.75            |      | 3.00 |      | 3.25 |      | 3.50 |      | 3.75 |      | 4.0  |      | 4.25 |      | 4.50 |      |
|               |        | LPH             | RAD  | LPH  | RAD  | LPH  | RAD  | LPH  | RAD  | LPH  | RAD  | LPH  | RAD  | LPH  | RAD  | LPH  | RAD  |
| R33 Gold 18   | 3.6 mm | 825             | 13.4 | 862  | 13.6 | 897  | 13.7 | 931  | 13.7 | 964  | 13.7 | 996  | 14   | 1027 | 14   | 1058 | 13.7 |
| R33 Brown 20  | 4.0 mm | 1009            | 14   | 1054 | 14.2 | 1099 | 14.5 | 1143 | 14.6 | 1179 | 14.7 | 1217 | 14.6 | 1255 | 14.5 | 1293 | 14.3 |
| R33 Gray 22   | 4.4 mm | 1218            | 14.6 | 1272 | 14.8 | 1325 | 15.1 | 1375 | 15.2 | 1423 | 15   | 1468 | 15   | 1511 | 14.8 | 1554 | 14.6 |
| R33 Green 24  | 4.8 mm | 1447            | 14.9 | 1513 | 15.2 | 1577 | 15.4 | 1639 | 15.5 | 1698 | 15.5 | 1753 | 15.5 | 1807 | 15.5 | 1862 | 15.2 |

**ALL DATA IS PRELIMINARY.**

R = radius in feet and RAD = radius in meters—measured indoors in no wind conditions with R33 plates mounted 18"(.46m) above collection cups.



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**WARRANTY AND DISCLAIMER:**

Nelson R33 Rotators are warranted for one year from the date of the original sale to be free of defective material and workmanship when used within the working specifications for which the products were designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair of defective parts and the manufacturer will not be liable for any crop or other consequential damages resulting from any defects or breach of warranty. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES AND OF ALL OTHER OBLIGATIONS OR LIABILITIES OF MANUFACTURER. No agent, employee or representative of the manufacturer has authority to waive, alter or add to the provisions of this warranty nor to make any representations or warranty not contained herein.

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