The R5 is part of the Nelson Rotator® family of sprinklers.

NELSON IRRIGATION CORPORATION
The R5 Rotator is a completely different micro sprinkler.

Rotator® Technology
The Nelson R5 Rotator® is a micro sprinkler with a unique and patented drive principle. The water stream emitting from the nozzle is directed into an offset channel on the Rotor plate, creating a reactionary drive force. A viscous silicone fluid in the Rotor Motor controls the Rotation speed. Rotator® technology gives the R5 high uniformity and a distance of throw greater than that of any other micro sprinkler!

- Uniform distribution
- Greater throw radius
- Better soil infiltration
- Low pressure operation
- Reliable start up

Full Coverage Irrigation
The R5 Rotator offers a unique full coverage irrigation solution. In contrast to part coverage, drip or micro sprinkler systems, full coverage offers the following benefits:
- Improved infiltration
- Reduced crop stress
- Ability to manage salinity

- Ability to establish cover crops
- Dust suppression and crop cooling
- Increased overall nutrient availability
- Activation of fertilizers and chemicals

Ask for the Full Coverage Irrigation pocket guide for further details.

Stream Deflection Options
Stream splitters protect tree trunks. The single-sided splitter is used when R5 Rotators are mounted 2-4 feet (0.6-1.2 m) from a tree.

- #10746
- #10976

- The two-sided splitter is used when R5 Rotators are centered between two trees.

- The deflector cap is used to reduce the R5 Rotator radius down to 3-4 feet (0.9-1.2 m) for watering newly planted trees.

New! R5 Rotator Pop-up
The R5 Pop-up reduces irrigation system maintenance costs dramatically.
- Insect problems are mitigated — no more plugging or stalling.
- A strong stake and protective canister protect against damage during pruning, thinning, harvest and machine operations.
- The inlet screen significantly reduces the time required to unplug sprinklers and the number of times a sprinkler plugs.
MOUNTING OPTIONS & ACCESSORIES

FT-01 Stake Assembly
Complete Assemblies:
11.5" (30 cm) with 24" tubing
#10745-024
11.5" (30 cm) with 36" tubing
#10745-036
or 17.5" (45 cm) with 36" tubing
#10744-036
Plastic Stake
11.5" (30 cm) #10847
or 17.5" (45 cm) #10848
4 mm Tubing Options*
24" (61 cm) #9960-924
36" (91 cm) #9960-936

FT-02 (Inverted) & FT-03 (Upright) Stake Assembly
R5 Stake Adapter #10136
Stake Options
6.3 mm Fiberglass Stake
24" (61 cm) #10040-024
6.3 mm Steel Stake
24" (61 cm) #9726-024
4.7 mm Steel Stake
24" (61 cm) #9982-124
48" (122 cm) #9982-148
4 mm Tubing Options*
24" (61 cm) #9960-924
36" (91 cm) #9960-936
or 48" (122 cm) #9960-948

Nelson Rotator® Feedtube Assemblies
These versatile stake mounting options feature durable, UV and kink resistant flexible PVC tubing. Fast, simple installation. See the Nelson Rotator® Feedtube Assemblies brochure for further details.

½ PVC-4
for 4 mm Tubing
Female Acme x R5 Adapter #10616
PVC Stake Adapter (Gray) #11258
1/2" PVC Pipe
4 mm Flexible PVC Feedtube & LTO 4 mm Barb
24" (61 cm) #9960-924
Assembled:
9" (23 cm) PVC Stake, 4 mm x 24" (61 cm) Tube with Barb (exit hole 2.5" from top) #11260-20924
12" (30 cm) PVC Stake, 4 mm x 24" (61 cm) Tube with Barb (exit hole 4" from top) #11260-21224
18" (46 cm) PVC Stake, 4 mm x 24" (61 cm) Tube with Barb (exit hole 8" from top) #11260-21830

½ PVC-5
for 5 mm Tubing
Female Acme x R5 Adapter #10616
PVC Stake Adapter (Black) #11271
1/2" PVC Pipe
5 mm Flexible PVC Feedtube & LTO 5 mm Barb
30" (76 cm) #11283-030
Assembled:
21" (53 cm) PVC Stake, 5 mm x 30" (76 cm) Tube with Barb (exit hole 9.5" from top) #11284-22130

*4 mm Flexible PVC Feedtube & LTO 4 mm Barb O.D. = .27” (6.9 mm); I.D. = 0.154” (3.9 mm). For other tube assembly lengths order #10081-002 [1000’ (305 m) of 4 mm tubing] and #10080 barb.

FT-02 Inverted
An inverted mount requires attachment of the stake to 2 separate trellis wires with the #9987 clip
2 CLIPS REQUIRED

The R5 Rotator can be mounted on a PVC riser with the R5 Female Acme X R5 Adapter #10616 and the PVC Adapter 1/2" #10060-001; 3/4" #10060-002; or 25 mm #10060-003.

#11108 Installation Tool
For best results, use the R5 Installation Tool every time an R5 is attached to a stake or adapter.

For all feedtube assemblies use Hand Punch Tool #10997

#10287 for 6.3 mm Steel Stake
Use Stake Installation Tool
**Plate/Nozzle Options and Flow Performance in GPH and LPH**

<table>
<thead>
<tr>
<th>Plate Options</th>
<th>Recommended Nozzles*</th>
<th>PSI (GPH)</th>
<th>BAR (LPH)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>15 20 25 30 35 40</td>
<td>1 1.25 1.50 1.75 2 2.25 2.5 2.75</td>
</tr>
<tr>
<td>BLUE LOW PRESSURE upright mount</td>
<td>#35 Orange</td>
<td>9.5 10.5 11.4 12.1</td>
<td>36 39 42 44 46</td>
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<tr>
<td></td>
<td>#40 Blue</td>
<td>10.8 12.2 13.3 14.4</td>
<td>43 46 49 53 56</td>
</tr>
<tr>
<td></td>
<td>#45 Purple</td>
<td>11.7 13.7 15.4 16.8 18.2</td>
<td>44 49 54 59 63 67 70</td>
</tr>
<tr>
<td></td>
<td>#50 Green</td>
<td>14.3 16.8 18.8 20.6 22.3</td>
<td>53 60 66 72 77 81 86</td>
</tr>
<tr>
<td></td>
<td>#55 Yellow</td>
<td>17.4 20.3 22.8 25.0</td>
<td>65 73 80 87 93</td>
</tr>
<tr>
<td>GREEN HIGH PRESSURE upright mount</td>
<td>#35 Orange</td>
<td>10.5 11.4 12.1</td>
<td>39 42 44 46</td>
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<td>72 77 81 86 91</td>
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<td></td>
<td>#55 Yellow</td>
<td>22.8 25 27 29</td>
<td>87 93 99 104 110</td>
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<tr>
<td>WINE inverted mount</td>
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<td>9.5 10.5 11.4 12.1</td>
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<td>53 60 66 72 77</td>
</tr>
</tbody>
</table>

*Always use the recommended pressure for each nozzle/plate combination. The absence of flow data on the above chart for a particular plate/nozzle combination indicates the pressure is outside the recommended range. FILTRATION & NOZZLE CLEANING NOTE: 75 mesh or finer filtration is suggested. The plate and nozzle of the R5 should not be removed. Any attempt to do so will likely cause permanent damage.

**Nelson 5FC Flow Control Nozzle**

The R5 is available with a standard or flow control nozzle. The 5FC nozzles illustrated below are operating at the same flow. As pressure increases, 5FC nozzles flex to a smaller size to deliver a constant flow over a range of pressure. They assure uniform application of water throughout the crop.

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**Pressure Range** in PSI (Bar) for 5FC Nozzles

<table>
<thead>
<tr>
<th>5FC NOZZLE OPTION</th>
<th>BLUE PLATE</th>
<th>GREEN PLATE</th>
<th>WINE PLATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5 gph Orange 5FC (32 lph)</td>
<td>25-45 (1.8-3.1)</td>
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<td>25-45 (1.8-3.1)</td>
</tr>
<tr>
<td>11 gph Blue 5FC (41 lph)</td>
<td>20-45 (1.4-3.1)</td>
<td>30-45 (2.3-3.1)</td>
<td>15-45 (1-3.1)</td>
</tr>
<tr>
<td>14 gph Purple 5FC (53 lph)</td>
<td>15-40 (1.2-3.1)</td>
<td>25-45 (1.8-3.1)</td>
<td>15-45 (1-3.1)</td>
</tr>
<tr>
<td>18 gph Yellow 5FC (68 lph)</td>
<td>15-35 (1.2-3.1)</td>
<td>25-45 (1.8-3.1)</td>
<td>15-35 (1-2.4)</td>
</tr>
<tr>
<td>24 gph Red 5FC (90 lph)</td>
<td>15-35 (1.2-3.1)</td>
<td>25-45 (1.8-3.1)</td>
<td>15-30 (1-2)</td>
</tr>
</tbody>
</table>

* *When using recommended pressures for a given plate and nozzle configuration, 5FC Flow Control Nozzles are flow regulating within a flow range of no more than 3% greater and 5% less than the nominal flow.

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