

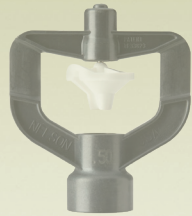
R5



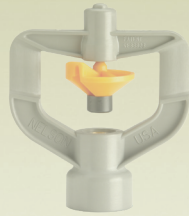
R5-9  
US & METRIC  
11/18



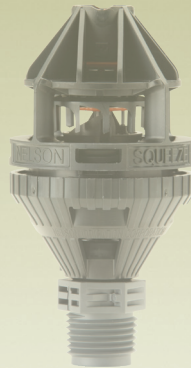
**R5**  
9 - 29 GPH  
34 - 110 LPH



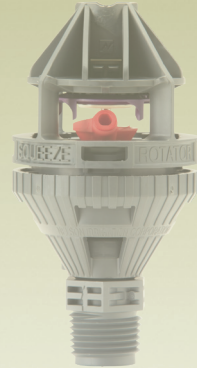
**R10**  
0.3 - 0.7 GPM  
61 - 164 LPH



**R10 TURBO**  
0.6 - 2.1 GPM  
140 - 469 LPH



**R2000**  
0.7 - 3.5 GPM  
150 - 792 LPH



**R2000LP/WF**  
0.9 - 5.7 GPM  
191 - 1295 LPH

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

 **NELSON IRRIGATION CORPORATION**



# The R5 Rotator



is a completely different micro sprinkler.

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

## 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!

## 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.



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

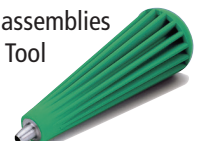


The deflector cap is used to reduce the R5 Rotator radius down to 3-4 feet (0.9-1.2 m) for watering newly planted trees.



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



Use Stake Installation Tool #10287 for 6.3 mm Steel Stake

Standard Nozzle      Plate      Flow Control Nozzle

quick thread connect to FT-02, FT-03 feedtube assemblies

Plate	Nozzle (Standard):	Or Flow Control:
#9836-XXX*	#35 Orange	8.5 (#9) gph (32 lph)
	#40 Blue	#11 gph (41 lph)
	#45 Purple	#14 gph (53 lph)
	#50 Green	#18 gph (68 lph)
	#55 Yellow	#24 gph (90 lph)

Plate: Green = 1  
Wine = 2  
Blue = 3

## 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.



# ROTATOR® FEEDTUBE ASSEMBLIES & ACCESSORIES

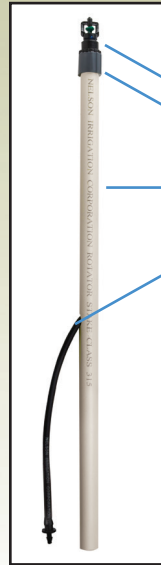
These versatile stake mounting options feature durable, UV and kink resistant flexible PVC tubing. Fast, simple installation. See the Nelson Rotator® Feedtube Assemblies brochure for further details.



## 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\*



## 1/2 PVC-4 for 4 mm Tubing

Female Acme x R5 Adapter #10616  
 PVC Stake Adapter (Gray) #11258  
 1/2" PVC Pipe  
 4 mm Tubing Options\*

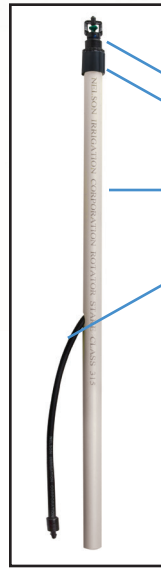
### 1/2 PVC-4 Stake and Tube Assembly Options

Assembly #	Stake Length	4 mm Tubing Length	Hole Distance from Top
11260-21630	16" (40 cm)	30" (76 cm)	5.5" (14 cm)
11260-22230	22" (55 cm)	30" (76 cm)	11.3" (29 cm)
11260-21648	22" (55 cm)	48" (122 cm)	11.3" (29 cm)



## 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\*

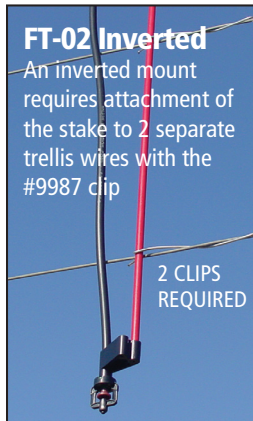


## 1/2 PVC-5 for 5 mm Tubing

Female Acme x R5 Adapter #10616  
 PVC Stake Adapter (Black) #11271  
 1/2" PVC Pipe  
 5 mm Tubing Options\*\*

### 1/2 PVC-5 Stake and Tube Assembly Options

Assembly #	Stake Length	5 mm Tubing Length	Hole Distance from Top
11284-21630	16" (40 cm)	30" (76 cm)	5.5" (14 cm)
11284-22230	22" (55 cm)	30" (76 cm)	11.3 (29 cm)
11284-22242	22" (55 cm)	42" (107 cm)	11.3 (29 cm)
11284-32230	22" (55 cm)	30" (76 cm)	1.5" (4 cm)



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.

**\*4 mm Tubing O.D. = .27" (6.9 mm) I.D. = 0.154" (3.9mm)**

4mm LTO & Tubing Assemblies	Part #
24" (61 cm)	9960-924
30" (76 cm)	9960-930
36" (91 cm)	9960-936
48" (122 cm)	9960-948
4mm tubing 1000' (305 m) coil	10081-002
4mm LTO or Barb	10080

**\*\*5 mm Tubing O.D. = .30" (7.6 mm) I.D. = 0.19" (4.8 mm)**

5mm LTO & Tubing Assemblies	Part #
30" (76 cm)	11283-030
42" (107 cm)	11283-042
48" (122 cm)	11283-048
72" (183 cm)	11283-072
96" (244 cm)	11283-096
5mm tubing 1000' (305 m) coil	9284
5mm LTO or Barb	12023

# Plate/Nozzle Options and Flow Performance in GPH and LPH

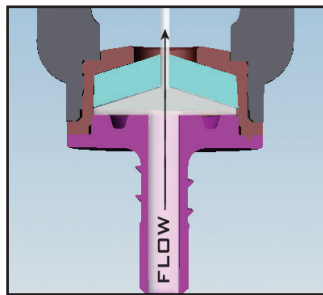
Plate Options	Recommended Nozzles*	PSI						BAR							
		15	20	25	30	35	40	1	1.25	1.50	1.75	2	2.25	2.5	2.75
<b>BLUE</b> LOW PRESSURE upright mount Radius 10 - 16' (3.0 - 4.9 m)	#35 Orange			9.5	10.5	11.4	12.1				36	39	42	44	46
	#40 Blue		10.8	12.2	13.3	14.4				43	46	49	53	56	
	#45 Purple	11.7	13.7	15.4	16.8	18.2		44	49	54	59	63	67	70	
	#50 Green	14.3	16.8	18.8	20.6	22.3		53	60	66	72	77	81	86	
	#55 Yellow	17.4	20.3	22.8	25.0			65	73	80	87	93			
<b>GREEN</b> HIGH PRESSURE upright mount Radius 12 - 18' (3.7 - 5.5 m)	#35 Orange				10.5	11.4	12.1					39	42	44	46
	#40 Blue				13.3	14.4	15.5					49	53	56	59
	#45 Purple			15.4	16.8	18.2	19.6				59	63	67	70	74
	#50 Green			18.8	20.6	22.3	23.9				72	77	81	86	91
	#55 Yellow			22.8	25	27	29				87	93	99	104	110
<b>WINE</b> inverted mount Radius 7 - 14' (2.1 - 4.3 m)	#35 Orange			9.5	10.5	11.4	12.1				36	39	42	44	46
	#40 Blue		10.8	12.2	13.3	14.4	15.5			43	46	49	53	56	59
	#45 Purple	11.7	13.7	15.4	16.8	18.2		44	49	54	59	63	67	70	
	#50 Green	14.3	16.8	18.8	20.6			53	60	66	72	77			

\*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.

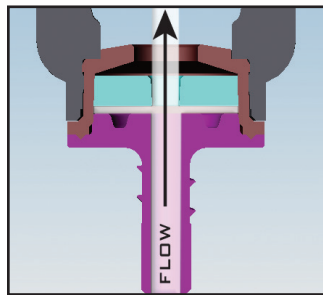


## Nelson 5FC Flow Control Nozzle

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.



5FC with high pressure



5FC with low pressure

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

5FC NOZZLE OPTION	BLUE PLATE	GREEN PLATE	WINE PLATE
8.5 gph <b>Orange 5FC</b> (32 lph)	25-45 (1.8-3.1)	—	—
11 gph <b>Blue 5FC</b> (41 lph)	20-45 (1.4-3.1)	30-45 (2-3.1)	15-45 (1-3.1)
14 gph <b>Purple 5FC</b> (53 lph)	15-40 (1-2.8)	25-45 (1.8-3.1)	15-45 (1-3.1)
18 gph <b>Yellow 5FC</b> (68 lph)	15-35 (1-2.4)	25-45 (1.8-3.1)	15-35 (1-2.4)
24 gph <b>Red 5FC</b> (90 lph)	15-35 (1-2.4)	25-45 (1.8-3.1)	15-30 (1-2)

\*\*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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