

R5



R5-9
US & METRIC
11/18



R5
9 - 29 GPH
34 - 110 LPH



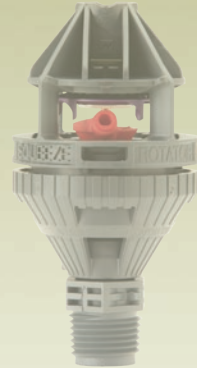
R10
0.3 - 0.7 GPM
61 - 164 LPH



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

Flow Control Nozzle

Plate

Plate:	Nozzle (Standard):	Or Flow Control:
Green = 1	#35 Orange	8.5 (#9) gph (32 lph)
Wine = 2	#40 Blue	#11 gph (41 lph)
Blue = 3	#45 Purple	#14 gph (53 lph)
	#50 Green	#18 gph (68 lph)
	#55 Yellow	#24 gph (90 lph)

#9836-XXX*

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

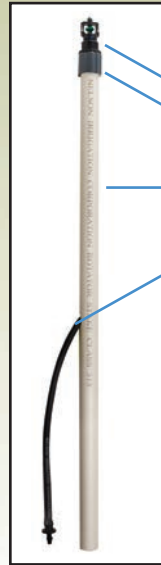
These versatile stake mounting options feature durable, UV and kink resistant flexible PVC tubing. Fast, simple installation. See the Nelson Rotator® Feedtube Assemblies brochure for further details.



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*

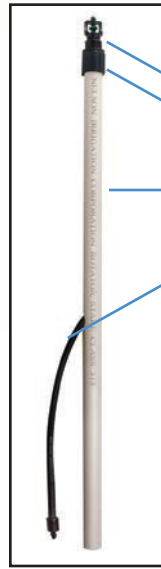
1/2 PVC-4 Stake and Tube Assembly Options

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)



FT-02 Inverted

An inverted mount requires attachment of the stake to 2 separate trellis wires with the #9987 clip

2 CLIPS REQUIRED



#10616
 #10060-xxx

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

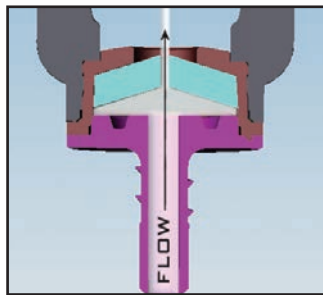
Plate Options	Recommended Nozzles*	PSI						BAR							
		15	20	25	30	35	40	1	1.25	1.50	1.75	2	2.25	2.5	2.75
BLUE LOW PRESSURE upright mount Radius 10 - 16' (3.0 - 4.9 m)	#35 Orange			9.5	10.5	11.4	12.1				36	39	42	44	46
	#40 Blue		10.8	12.2	13.3	14.4				43	46	49	53	56	
	#45 Purple	11.7	13.7	15.4	16.8	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			
GREEN 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
WINE 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.

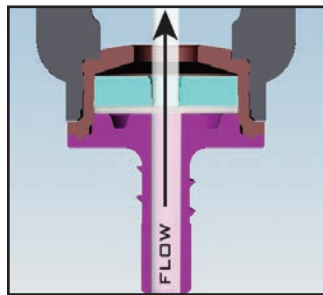


Nelson 5FC Flow Control Nozzle

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 Orange 5FC (32 lph)	25-45 (1.8-3.1)	—	—
11 gph Blue 5FC (41 lph)	20-45 (1.4-3.1)	30-45 (2-3.1)	15-45 (1-3.1)
14 gph Purple 5FC (53 lph)	15-40 (1-2.8)	25-45 (1.8-3.1)	15-45 (1-3.1)
18 gph Yellow 5FC (68 lph)	15-35 (1-2.4)	25-45 (1.8-3.1)	15-35 (1-2.4)
24 gph Red 5FC (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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