

R5



R5-5
US & METRIC



R5
9 - 29 GPH
34 - 110 LPH



R10
.3 - 1.1 GPM
61 - 242 LPH



R10 TURBO
.6 - 2.1 GPM
140 - 469 LPH



R2000
.7 - 3.5 GPM
150 - 792 LPH



R2000WF
1.1 - 5.7 GPM
254 - 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.

Standard Nozzle Plate Flow Control Nozzle

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

Plate:	Green = 1	Nozzle (Standard):	#35 Orange	Or Flow Control:	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*

*To order the R5 Rotator Pop-up use part number 11261-xxx in place of part number 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.



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

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.



Yellow Stake Assembly for 4 mm Tubing

Female Acme x R5 Adapter #10616
 PVC Stake Adapter (Gray) #11258

1/2" Yelllowmine PVC Pipe

4 mm Tubing Options*
 24" (61 cm) #9960-924
 30" (76 cm) #9960-930
 36" (91 cm) #9960-936



FT-02 (Inverted) & FT-03 (Upright) Stake Assembly

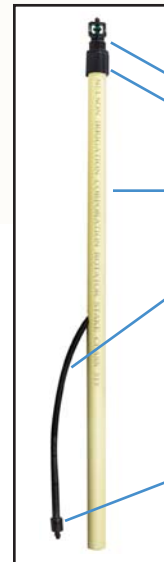
R5 Stake Adapter #10136

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



Yellow Stake Assembly for 5 mm Tubing

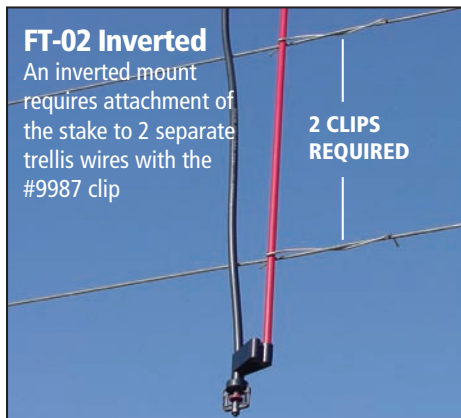
Female Acme x R5 Adapter #10616
 PVC Stake Adapter (Black) #11271

1/2" Yelllowmine PVC Pipe

#9284-030 5mm Flexible PVC Feedtube
 Length = 30" (76 cm)
 O.D. = .300" (7.6 mm)
 I.D. = .190" (4.8 mm)
 Bulk Coils #9284 1,000 ft. (304 m)

#9305 LTO 5mm Compression x 5mm Barb
 5 mm Feedtube w/ #9305 LTO (assembled) #11283-030

*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



#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.



#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



Use Stake Installation Tool #10287 for 6.3 mm Steel Stake

Plate/Nozzle Options and Flow Performance in GPH and LPH

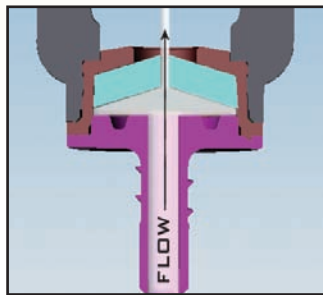
Plate Options	Recommended Nozzles*	PSI						BAR							
		15	20	25	30	35	40	1	1.25	1.50	1.75	2	2.25	2.5	2.75
BLUE LOW PRESSURE upright mount Radius 10 - 16' (3.0 - 4.9 m)	#35 Orange		8.5	9.5	10.5					34	36	39			
	#40 Blue	9.3	10.8	12.2	13.3			34	39	43	46	49			
	#45 Purple	11.7	13.7	15.4	16.8			44	49	54	59	63			
	#50 Green	14.3	16.8	18.8	20.6			53	60	66	72	77			
	#55 Yellow	17.4	20.3	22.8				65	73	80	87				
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.

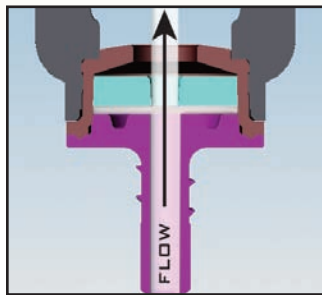


Nelson 5FC Flow Control Nozzle

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)	20-40 (1.4-2.8)	—	20-45 (1.4-3.1)
11 gph Blue 5FC (41 lph)	15-40 (1-2.8)	30-45 (2-3.1)	15-45 (1-3.1)
14 gph Purple 5FC (53 lph)	15-35 (1-2.4)	25-45 (1.7-3.1)	15-45 (1-3.1)
18 gph Yellow 5FC (68 lph)	15-30 (1-2)	25-45 (1.7-3.1)	15-30 (1-2)
24 gph Red 5FC (90 lph)	15-30 (1-2)	25-45 (1.7-3.1)	15-25 (1-1.7)

**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.

WARRANTY AND DISCLAIMER: Nelson Rotator® Sprinklers, Feetube Assemblies and accessories are warranted for one year from the date of 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. Rotator® is a registered trademark of Nelson Irrigation Corporation. Products in this brochure may be covered by one or more of the following U.S. Patent Numbers 4,796,811, 5,058,806, 5,372,307, 5,823,580, 5,875,815, DES312,865 and other U.S. Patents pending or corresponding issued or pending foreign patents.

innovation in irrigation™



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