

R2000



R2000-7
U.S. & METRIC



R5

9 - 29 GPH
34 - 110 LPH



R10

.3 - 1.1 GPM
61 - 242 LPH



R10 TURBO

.6 - 2.1 GPM
140 - 276 LPH



R2000

.7 - 3.5 GPM
150 - 792 LPH



R2000WF

1.0 - 5.5 GPM
217 - 1222 LPH

The R2000 is part of the Nelson Rotator® family of sprinklers.

 **NELSON IRRIGATION CORPORATION**



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No other agricultural

Maximize Radius and Uniformity

Now there's a sprinkler you can count on to give you both — distance of throw and uniformity. Plus the proven reliability Nelson Rotators® are known for the world over. The Nelson R2000 Rotator® uses the same unique, patented drive principle and simplicity of design as our other Rotator® models. But we've given it a diffuser device which "fills in" the sprinkler pattern for greater uniformity and allows for a long distance of throw comparable to an impact sprinkler!

The right combination of radius and uniformity makes the R2000 the ideal sprinkler for a variety of tree and field crop applications.

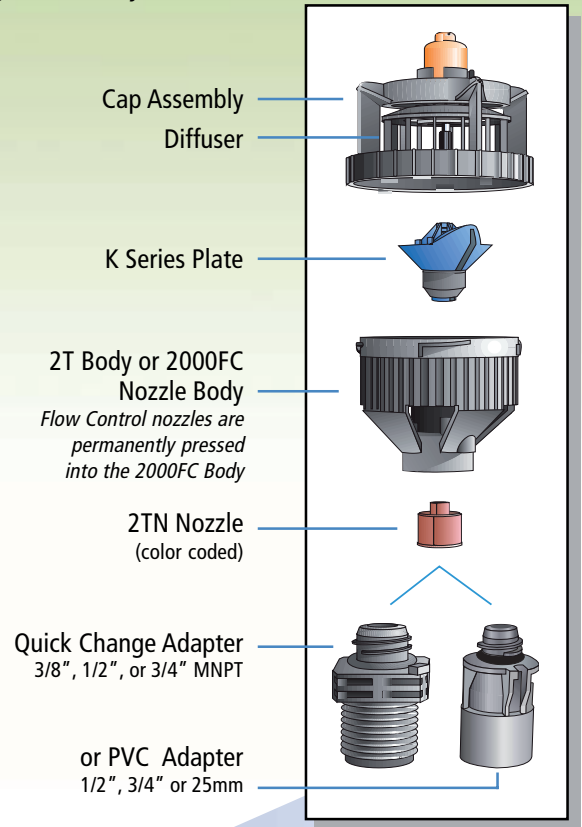


Diffused stream for high uniformity

sprinkler matches the value

Quick Snap-Apart Design

By "squeezing" on the releasing points (the words "squeeze"), the cap easily twists off of the body for changing or cleaning the nozzle.



- High Uniformity
- Proven Reliability
- Long Throw Distance
- Low Cost, Less Maintenance
- Low Application Rate
- No Riser Vibration
- No Splash Down

reliability, and uniformity of the R2000.

CROP APPLICATIONS

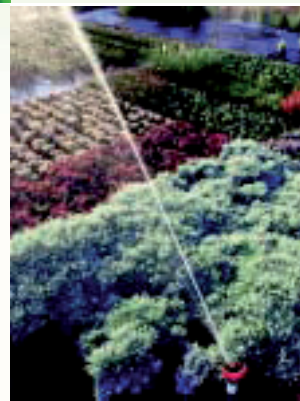


The high uniformity of the R2000 is a key selling point for portable irrigation systems used for row crop germination and irrigation.



Under canopy irrigation of tree crops.

High uniformity of the R2000 is a big plus in high density crops, such as nursery crops.



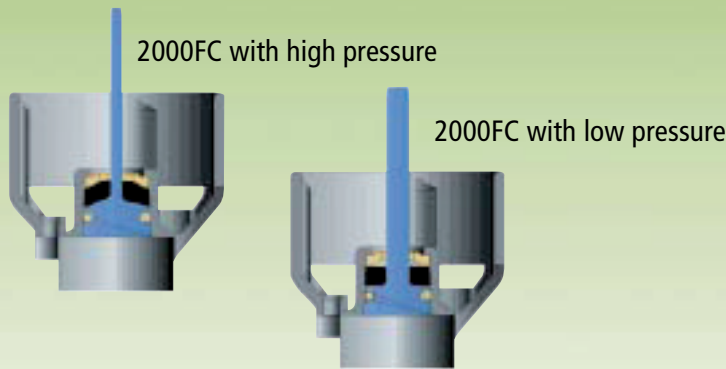
Overhead cooling and irrigation of tree and field crops.



The R2000 used as part of a portable irrigation system that utilizes polyethylene pipe for laterals in combination with the Nelson FT5 feedtube assembly.

R2000 NOZZLE & FLOW REGULATING OPTIONS

Nelson 2000FC Flow Control Nozzle



Nelson 2TN Nozzle

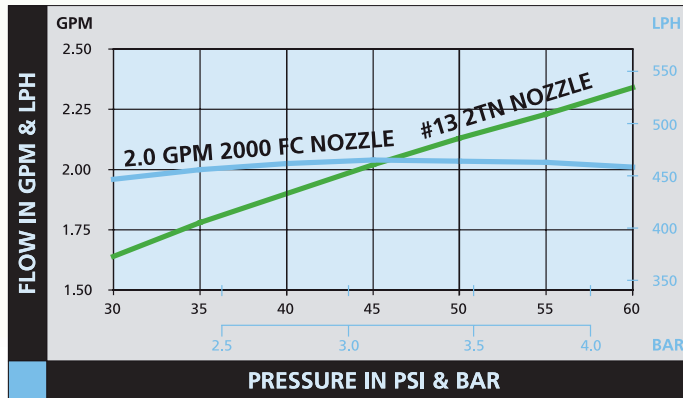


- made of Xenoy® for long wear and high accuracy
- color-coded for easy identification
- easy change snap in or out design

Xenoy® is a registered trademark of General Electric Company.

The 2000FC nozzles illustrated above are operating at the same flow. As pressure increases, the flexible flow washers reduce the orifice opening size giving a constant flow over a wide range of pressure.

2000FC nozzle and 2TN nozzle flow rates with changes in pressure



Why use Flow Control Nozzles?

- constant flow over a range of pressure
- increases field uniformity
- low cost, high value





















Nelson Mini Regulator

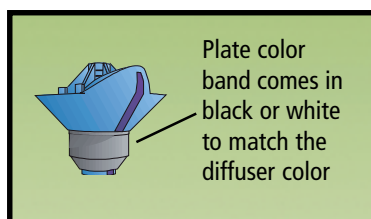
The mini regulator used in combination with 2TN nozzles also maintains a constant flow over a wide range of pressure. In addition it can be used when pressures exceed the highest recommended pressure for flow control nozzles. If pressure is maintained at or below the nominal rating, the mini regulator maximizes the potential to conserve water because every sprinkler in a system delivers exactly the same flow, droplet size, and distribution uniformity.

Two options to regulate flow: flow control nozzles or the Nelson Mini Regulator. Flow control nozzles (2000FC) are an excellent low cost option when system pressure ranges between 30-60 PSI. When system pressure differences are more extreme the Nelson Mini Regulator is an ideal product.

Plate/Nozzle Options and Flow Performance in GPM and LPH

Plate Series	Plate Options	Recommended Nozzles	PSI							BAR				
			30	35	40	45	50	55	60	2.0	2.5	3.0	3.5	4.0
K2	 K2 9° Green Radius: 23-27' (7.0-8.2M) Stream Ht.: 17-28" (43-71cm)	 Gray #8.3  White #9	.67	.72	.77	.82	.86	.90	.94	150	166	183	197	210
			.77	.83	.89	.94	1.00	1.05	1.10	172	192	210	229	245
	 K2 15° Yellow Radius: 26-29' (7.9-8.8M) Stream Ht.: 37-48" (94-122cm)	 Dark Blue #10 .85 2000FC 1.0 2000FC	.97	1.05	1.12	1.19	1.25	1.31	1.37	217	242	266	286	306
			.85	.85	.85	.85	.85	.85	.85	193	193	193	193	193
			1.00	1.00	1.00	1.00	1.00	1.00	1.00	227	227	227	227	227
K3	 K3 9° Brown Radius: 25-28' (7.6 to 8.5M) Stream Ht.: 17-25" (43-64cm)	 Orange #11  Purple #12	1.17	1.27	1.36	1.45	1.53	1.61	1.68	261	294	323	350	375
			1.39	1.50	1.61	1.70	1.80	1.89	1.98	311	347	380	412	442
	 K3 15° Red Radius: 27-31' (8.2-9.4M) Stream Ht.: 37-45" (104-130cm)	1.25 2000FC 1.5 2000FC	1.25	1.25	1.25	1.25	1.25	1.25	1.25	284	284	284	284	284
			1.5	1.5	1.5	1.5	1.5	1.5	1.5	341	341	341	341	341
K4	 K4 6° Turquoise Radius: 23-28' (7-8.5M) Stream Ht.: 13-22" (33-56cm)	 Yellow #13  Green #14	1.64	1.78	1.90	2.02	2.13	2.23	2.34	366	411	451	487	521
			1.85	2.00	2.15	2.28	2.40	2.53	2.64	413	463	509	550	590
	 K4 12° Wine Radius: 27-31' (8.8-9.4M) Stream Ht.: 31-40" (79-102cm)	1.5 2000 FC 2.0 2000 FC	1.5	1.5	1.5	1.5	1.5	1.5	1.5	341	341	341	341	341
			2.0	2.0	2.0	2.0	2.0	2.0	2.0	454	454	454	454	454
	 K4 24° Black Radius: 29-36' (8.8-11.0M) Stream Ht.: 72-89" (183-226cm)													
K5	 K5 9° Orange Radius: 28-32' (8.5-9.8M) Stream Ht.: 23-35" (58-86cm)	 Tan #15  Dark Red #16	2.17	2.35	2.53	2.67	2.82	2.97	3.11	485	544	597	647	695
			2.50	2.70	2.89	3.07	3.23	3.40	3.54	559	624	685	739	792
	 K5 24° Blue Radius: 34-38' (10.7-11.6M) Stream Ht.: 81-101" (206-257cm)	2.5 2000FC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	568	568	568	568	568

The performance data in this section has been recorded under ideal test conditions and may be adversely affected by poor hydraulic entrance conditions, slope, riser tilt, temperature, wind or other factors.



Always be sure


- To use the nozzle size that is recommended for the plate.
- The operating pressure is within the recommended range.
- The color of the diffuser for the R2000 matches that of the color band on the R2000 plate.

Only the nozzle and plate combinations grouped together in the above chart are recommended.

R2000 MOUNTING OPTIONS



One of the most common methods of mounting an R2000 is on a PVC riser connected to an underground lateral line.

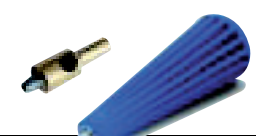


FT4 Feedtube

Part # 9752-036
(assembled, does not include stake)


- #9677 Steel Stake Adapter Acme Thread
- #9099-036 10mm Flexible PVC Feedtube
Length = 36" (91cm)
O.D. = .51" (13mm)
I.D. = .37" (9.4mm)
Bulk Coils #9099
500 ft. (152M)
- #9725-024 8mm Steel Stake 24" (61cm)
or #10160 8mm Fiberglass Stake 24" (61cm)
- #9774 LTO 10mm Compression x 7mm Barb

For FT4 use Punch Tool #9810 or Drill Tool #9835-002.



Nelson FT4 and FT5 Feedtube Assemblies

Nelson FT4 and FT5 Feedtube Assemblies connect R2000 Rotators® to polyethylene laterals. FT4 is for permanent connection and FT5 has a quick connect and disconnect feature for portable lateral systems. Both assemblies are mounted with steel stakes. With the addition of collar #9195 to FT4 or FT5, they can be converted to mount on a 3/4" PVC Stake. See the *Nelson Rotator® Feedtube Assemblies* brochure for details.

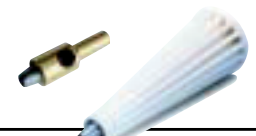


FT5 Feedtube

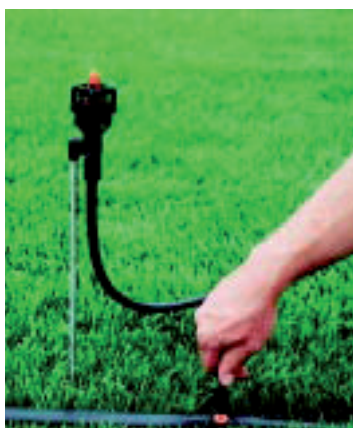
Part # 9737-048
(assembled, does not include stake)

- #9677 Steel Stake Adapter Acme Thread
- #9099-048 10mm Flexible PVC Feedtube
Length = 48" (122cm)
O.D. = .51" (13mm)
I.D. = .37" (9.4mm)
Bulk Coils #9099
500 ft. (152M)
- #9725-048 8mm Steel Stake 48" (122cm)
- #9740 QC LTO 10mm Compression x Male QC
- #9739 QC Barb Female QC x 10mm Barb

For FT5 use Punch Tool #9776 or Drill Tool #9835-001.



FT5 Quick Connect Feedtube Assembly



Pressure Gauge Tap Assembly #10367
(order gauge separately)



Use Stake Installation Tool #10287 for 6.3mm Steel Stake and #10288 for 8mm Steel Stake



R2000 OPTIONS AND ACCESSORIES



Nelson Flush Tool (#9210)

The Nelson Flush Tool can be used to disconnect and reconnect the sprinkler for nozzle cleaning while under pressure without getting the irrigator soaked. In addition, the top of the flush tool will disengage the Rotator® motor from the cap for changing or replacing the diffuser, cap or motor.



Nelson Plate Removal Tool (#9620)

Nelson Plate Removal Tool for ease of changing or replacing R2000 Rotator plates.



Nelson R2000 Stream Splitter (#9397)

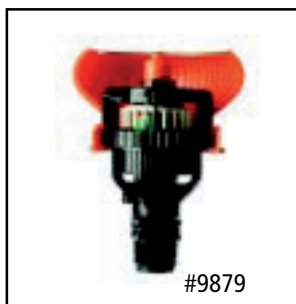
Effectively splits the water stream around the trunk of a tree, helping to prevent tree injury of disease.



Nelson Low Angle Road Guard (Red)



Nelson High Angle Road Guard (Orange)

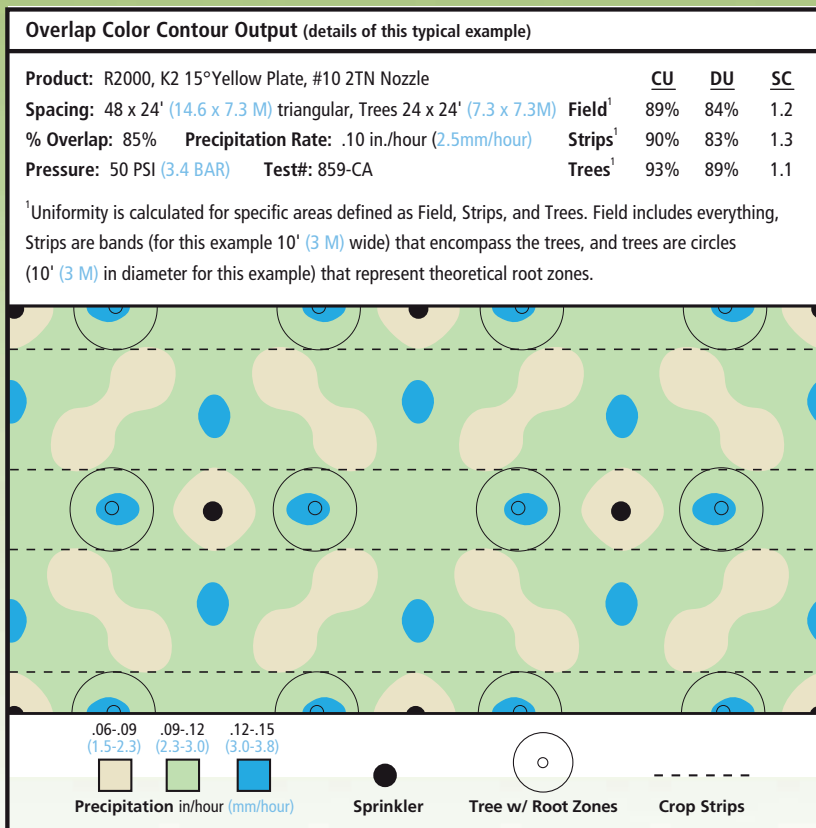


Road guards easily snap on to convert the R2000 to part-circle operation (irrigates 200°). Cutting guides are provided at 10° increments to increase the amount of arc irrigated.



NELSON OVERLAP SOFTWARE

Overlap 2.0

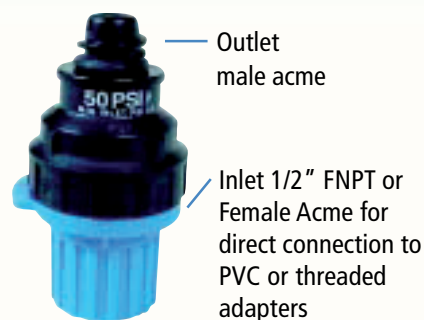


Nelson Overlap Computer Software Package (#3001) determines the nozzle size, pressure, and optimum sprinkler spacing for your irrigation system to achieve the highest possible uniformity. Complete performance information for the R2000 (including radius, stream height, and Overlap color contours with CU, DU, SC and % overlap) is available from your Nelson dealer or the Nelson factory.

Mini Regulator Drain Check

- Checks flow up to a pressure between 55 and 65% of the nominal pressure rating.
- Eliminates drizzle or drainage during shut down or start up.
- Conserves water through higher sprinkler efficiency because pressure and flow are regulated.
- Improves crop stand by eliminating seed wash out from low-pressure streams.
- Conserves water by preventing drainage of pipes between irrigation cycles.

Factory set pressure options: 35 PSI (2.4 BAR), 40 PSI (2.8 BAR), 45 PSI (3.1 BAR), 50 PSI (3.4 BAR)



WARRANTY AND DISCLAIMER

Nelson R2000 Rotators®, Feedtube 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.

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