



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



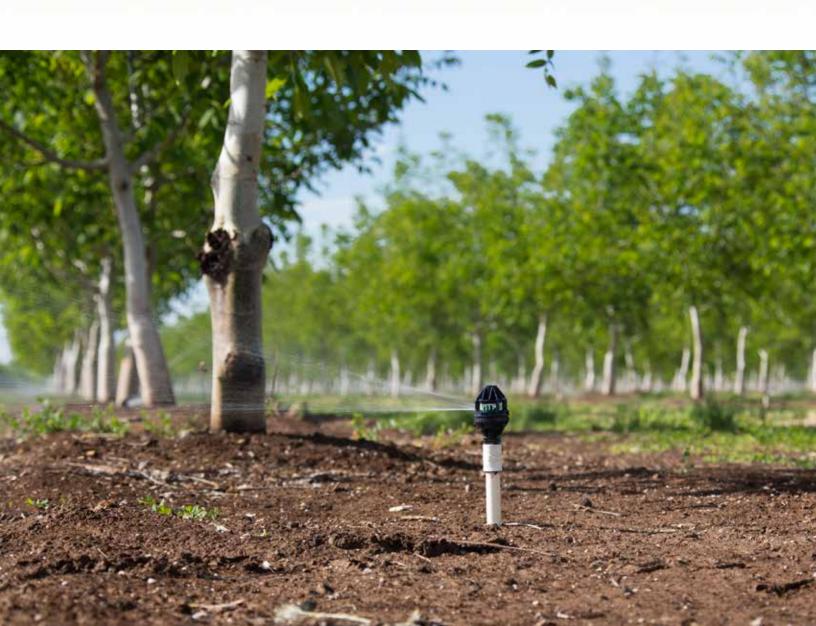
R2000 0.7 - 3.5 GPM 150 - 792 LPH



R2000LP/WF 0.9 - 5.7 GPM 191 - 1295 LPH

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

MINIOTION IN ACCORDINATION IN ACCORDINATION



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!



Diffused stream for high uniformity

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



 High Uniformity Proven Reliability

- - Long Throw Distance
 - Low Cost, Less Maintenance
- Low Application Rate
- No Riser Vibration
- · No Splash Down

sprinkler matches the value,

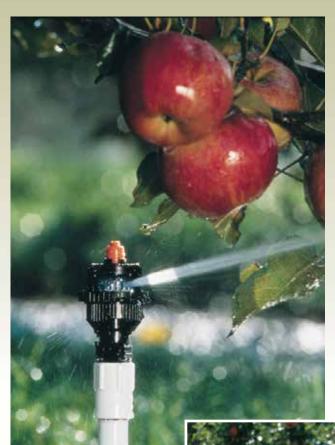
Quick Snap-Apart Design

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



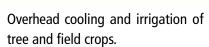
reliability, and uniformity of the R2000.

CROP APPLICATIONS



Under canopy irrigation of tree crops.

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

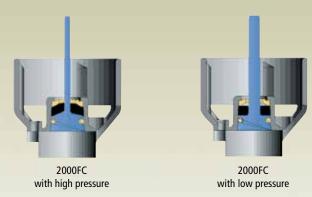




The R2000 used as part of a portable irrigation system that utilizes polyethylene pipe for laterals in combination with the Nelson FT5 feedtube assembly.

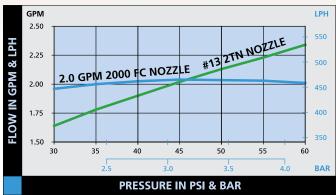
FLOW REGULATING OPTIONS

Nelson 2000FC Flow Control Nozzle



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



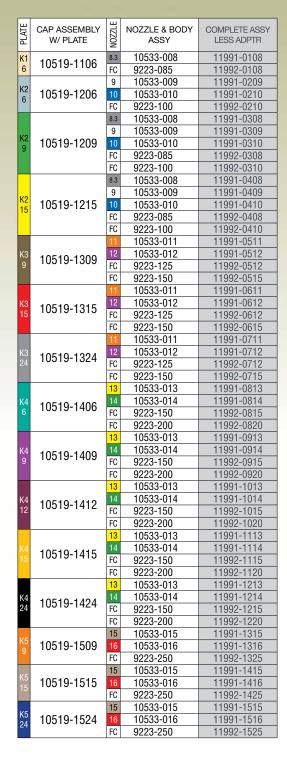
Flow control nozzles (2000FC) are an excellent low cost option when system pressure ranges between 30-60 PSI (2.0-4.0 BAR). When system pressure differences are more extreme the Nelson Mini Regulator or Mini Regulator Drain Check are ideal products.

Mini Regulator (MR), Mini Regulator Drain Check (MRDC) and Mini Drain Check (MDC)

The Mini Regulator and Mini Regulator Drain Check increase the potential to conserve water when the pressure is maintained at or above the nominal rating of the regulator. Every sprinkler in a system delivers exactly the same flow, droplet size, and distribution uniformity. The MR and MRDC are available in 30, 35, 40, 45, 50 or 60 PSI (2.0, 2.4, 2.8, 3.1, 3.4 or 4.0 BAR) nominal pressures.

The Drain Check feature (available in the MRDC and MDC) eliminates sprinkler drizzle during shut down and start up. The Mini Drain Check is available in 20 and 35 PSI (1.4-2.4 BAR) options.

All models have a Male Acme Outlet and 1/2" FNPT or Female Acme Inlet for direct connection to PVC or threaded adapters.





Plate/Nozzle Options and Flow Performance in GPM and LPH

Plate	Plate			ecommended	i PSI BAR											
Series		Options		Nozzles	30	35	40	45	50	55	60	2.0	2.5	3.0	3.5	4.0
K1	K1 6° Cream Radius: 21-25' (6.4-7.6 m)		ı	Gray #8.3	.67	.72	.77	.82	.86	.90	.94	150	166	183	197	210
	Stream Ht.: 15-25" (38-64 cm)		.85 2000FC Within the recommended pressure range of 30-60 PSI (2.0-4.0 BAR), the .85 2000 FC flow control nozzle regulating within a flow range of no more than 3.5% greater and 8% less than the nominal flow of .85 GPM (19													
K2	3	K2 6° Light Blue Radius: 22-26' (6.7-7.9 m) Stream Ht.: 15-32" (38-81 cm)		White #9 Dark Blue #10	.77 .97	.83 1.05	.89 1.12	.94 1.19	1.00 1.25	1.05 1.31	1.10 1.37	172 217	192 242	210 266	229 286	245 306
				1.0 2000FC							2.0-4.0 BA er and 8%					
	No.	K2 9° Green	and the	Gray #8.3	.67	.72	.77	.82	.86	.90	.94	150	166	183	197	210
		Radius: 23-27' (7.0-8.2 m) Stream Ht.: 18-37" (46-94cm)		White #9	.77	.83	.89	.94	1.00	1.05	1.10	172	192	210	229	245
	All at	K2 15° Yellow Radius: 27-30' (8.2-9.1 m) Stream Ht.: 31-55" (79-140 cm)		Dark Blue #10	.97 Within	1.05 the recom	1.12 mended p	1.19 pressure ra	1.25 ange of 30	1.31 0-60 PSI (2	1.37 2.0-4.0 BA	217 R), the .85	242 5 2000 FC	flow con	286 trol nozzle	306 is flow
	7			Within the recommended pressure range of 30-60 PSI (2.0-4.0 BAR), the .85 2000 FC flo regulating within a flow range of no more than 3.5% greater and 8% less than the nominal flow Within the recommended pressure range of 30-60 PSI (2.0-4.0 BAR), the 1.0 2000 FC flo						l flow of .8		93 LPH).				
				1.0 2000FC							er and 8%					
К3		K3 9° Brown Radius: 25-28' (7.6-8.5 m) Stream Ht.: 19-33" (48-84 cm)		Orange #11	1.17	1.27	1.36	1.45	1.53	1.61	1.68	261	294	323	350	375
				Purple #12	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' (8.2-9.4 m) Stream Ht.: 38-63" (97-160 cm)			1.25 2000FC	Within the recommended pressure range of 30-60 PSI (2.0-4.0 BAR), the 1.25 2000 FC flow control nozzle is flow regulating within a flow range of no more than 3.5% greater and 8% less than the nominal flow of 1.25 GPM (284 LPH).											
			1.5 2000FC	Within the recommended pressure range of 30-60 PSI (2.0-4.0 BAR), the 1.5 2000 FC flow control nozzle is flow regulating within a flow range of no more than 3.5% greater and 8% less than the nominal flow of 1.5 GPM (341 LPH).												
		K3 24° Gray Radius: 29-35′ (8.8-10.7 m) Stream Ht.: 68-103″ (173-262 cm)													,	,
К4	*	K4 6° Turquoise Radius: 21-25' (6.1-7.6 m) Stream Ht.: 10-24" (25-61 cm)		Yellow #13	1.64	1.78	1.90	2.02	2.13	2.23	2.34	366	411	451	487	521
				Green #14	1.85	2.00	2.15	2.28	2.40	2.53	2.64	413	463	509	550	590
		K4 9° Purple Radius: 26-32' (7.9-9.4 m) Stream Ht.: 28-42" (71-107 cm)		1.5 2000 FC		Within the recommended pressure range of 30-60 PSI (2.0-4.0 BAR), the 1.5 2000 FC flow control nozzle is regulating within a flow range of no more than 3.5% greater and 8% less than the nominal flow of 1.5 GPM (341 L										
				2.0 2000 FC	Within	Within the recommended pressure range of 30-60 PSI (2.0-4.0 BAR), the 2.0 2000 FC flow control nozzle is regulating within a flow range of no more than 3.5% greater and 8% less than the nominal flow of 2.0 GPM (454						is flow				
		K4 12° Wine Radius: 27-31' (8.2-9.4 m) Stream Ht.: 32-51" (81-130 cm)			regulati	ng within	d HOW Fall	ge of no n	iore triari s	.5 % great	er anu o 76	iess triair i	ne nomina	ii iiow oi z	.U GPW (4	54 LFN).
	*	K4 15° Gold Radius: 27-33' (8.2-10.1 m) Stream Ht.: 40-60" (102-152 cm)														
	*	K4 24° Black Radius: 28-36' (8.5-11.0 m) Stream Ht.: 65-100" (165-254 cm)														
К5	*	K5 9° Orange Radius: 27-31 ′ (8.2-9.4 m) Stream Ht.: 25-42 ″ (54-107 cm)	ů	Tan #15	2.17	2.35	2.53	2.67	2.82	2.97	3.11	485	544	597	647	695
				Dark Red #16	2.50	2.70	2.89	3.07	3.23	3.40	3.54	559	624	685	739	792
	2	K5 15° Tan Radius: 31-36' (9.4-11.0 m) Stream Ht.: 36-49" (91-124 cm)		2.5 2000FC							2.0-4.0 BA er and 8%					
	*	K5 24° Blue Radius: 32-37' (9.8-11.3 m) Stream Ht.: 76-104" (193-264 cm)														

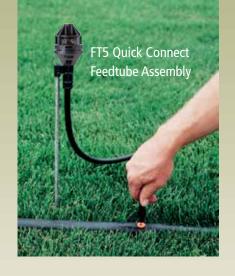
The performance data in this section has been recorded under ideal test conditions and may be adversely affected by poor hydraulic entrance conditions, slope, riser tilt, temperature, wind or other factors. **Always be sure to use the nozzle size that is recommended for the plate**. The operating pressure should be within the recommended range. Only the nozzle and plate combinations grouped together in the above chart are recommended. The color of the diffuser should match the color band on the R2000 plate (i.e. K1 and K2 plates require a white diffuser, K3 and K4 plates require a black diffuser and K5 plates require a gray diffuser). The absence of flow data on the above chart indicates the pressure is outside the recommended range.

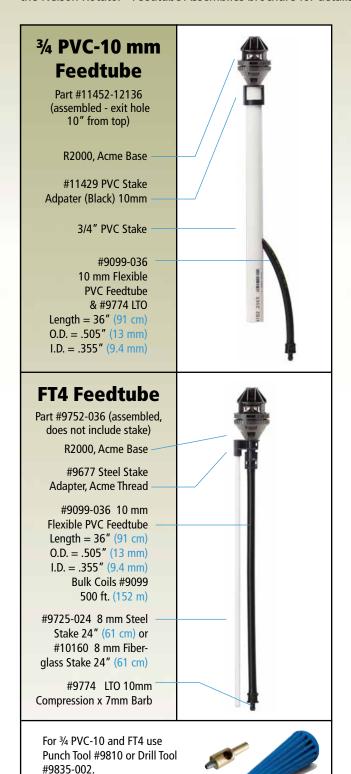
R2000 MOUNTING OPTIONS

10 mm Feedtube Assemblies

The ¾ PVC-10, FT4 and FT5 Feedtube Assemblies all utilize 10 mm feedtube and connect R2000 Rotators to polyethylene laterals. The ¾ PVC-10 is a heavy-duty option that prevents damage caused by equipment, workers and animals chewing on tubing.

The FT4 is for permanent connection while the FT5 has a quick connect and disconnect feature for portable lateral systems. Both assemblies are mounted with steel stakes. See the Nelson Rotator® Feedtube Assemblies brochure for details.











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

R2000 OPTIONS AND ACCESSORIES

2000 SERIES 2TN	R2000(WF)	R2000(WF)	NEW-STYLE R2000	LEGACY R2000
Nozzle removal tool	PLATE REMOVAL TOOL	Cap removal tool	Stream Splitter	Stream Splitter

#12260 Removes the nozzle from the R2000(WF).

#9620Removes the plate from the R2000(WF).

#10689Easily removes the cap assembly on the R2000(WF).

#12056
Protect adjacent tree
trunks by creating a small
wedge shape in the wetted
pattern.

#12057Use on Legacy Style
R2000 to protect adjacent tree trunks.

R2000(WF)	NEW STYLE R2000(WF)	COMPRESSION	R2000(WF) HIGH-ANGLE	PC-R2000WF &
FLUSH TOOL	Motor Removal Tool	Adapter	ROAD GUARD	PC-R2000LP
	EO E			

#9210Disconnect and reconnect sprinkler for nozzle cleaning while under pressure.

#12215Removes the motor from the R2000(WF).

#106231/2" Spigot x Compression Barb connects 10mm tubing to PVC.

#12213-001 Snap on new style R2000(WF) to convert to part-circle operation (190°).

#10242-1xxx (i.e. PC-R2000WF WF12 #11 is #10242-1211); #11296-xxxx (PC-R2000LP). Road Guard unassembled.

THREADED CAP	FEMALE ACME X	PRESSURE GAUGE			
FOR ACME ADAPTER	1/2" PVC SPIGOT	TAP ASSEMBLY			
To the					

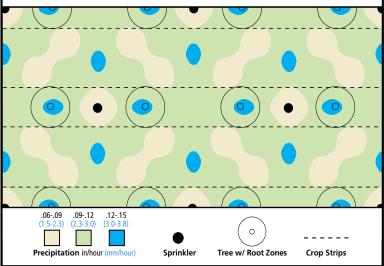
#10615Connects to Acme thread and acts as a shutoff cap.

#10352 Enables easy attachment to a 1/2" PVC riser.

#10367 Female Acme x Male Acme Gauges: 0-60 PSI, #8968-002 0-100 PSI, #8968-003 0-160 PSI, #8968-004

NELSON OVERLAP SOFTWARE

Overlap Color Contour Output (details of this typical example) Product: R2000, K2 15° Yellow Plate, #10 2TN Nozzle CU DU SC Spacing: 48 x 24' (14.6 x 7.3 m) triangular, Trees 24 x 24' (7.3 x 7.3 m) Field¹ 1.2 % Overlap: 85% Precipitation Rate: .10 in./hour (2.5 mm/hour) Strips 90% 83% 1.3 Pressure: 50 PSI (3.4 BAR) Test#: 859-CA Trees 89% 1.1 ¹Uniformity is calculated for specific areas defined as Field, Strips, and Trees. Field includes everything, Strips are bands (for this example 10' (3 m) wide) that encompass the trees, and trees are circles (10' (3 m) in diameter for this example) that represent theoretical root zones.



Overlap

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.

Legacy Low Angle Road Guard (Red)



Legacy 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.

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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