



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.

MINION IRRIGATION CORPORATION



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

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.



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

reliability, and uniformity of the R2000.

CROP APPLICATIONS

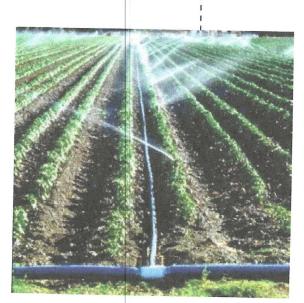


Under canopy irrigation of tree crops.

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



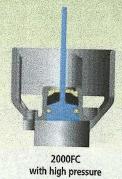
Overhead cooling and irrigation of tree and field crops.



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

FLOW REGULATING OPTIONS

Nelson 2000FC Flow Control Nozzle

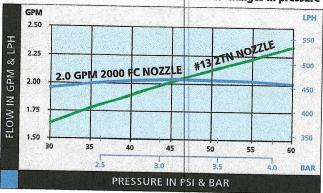




2000FC with low pressure

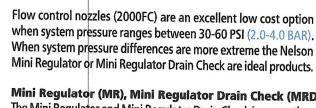
The 2000FC nozzles illustrated above are operating at the same flow. As pressure increases, the flexible flow washers reduce the orifice opening size giving a constant flow over a wide range of pressure.

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



	20,00,00,00				
	PLATE	CAP ASSEMBLY W/ PLATE	NOZZIE		COMPLETE ASSY LESS ADPTR
C127 178	K1	10519-1106	j,	10000 000	11991-0108
	6		F	7220 000	11992-0108
	K2	10510 1000	9	10000 000	11991-0209
	h	10519-1206	10	10533-010	11991-0210
			FC	000	11992-0210
			3.3	10533-008	11991-0308
	(2		9	10533-009	11991-0309
	u	10519-1209	FO 0000 000	11991-0310	
			FC	9223-085	11992-0308
			FC	9223-100	11992-0310
			3.3		11991-0408
K	(2		9	10533-009	11991-0409
	5	10519-1215	10	10533-010	11991-0410
			FC	9223-085	11992-0408
			FC	9223-100	11992-0410
			11	10533-011	11991-0511
	3	10519-1309	12	10533-012	11991-0512
9	9	10019-1009	FC	9223-125	11992-0512
			FC	9223-150	11992-0515
			11	10533-011	11991-0611
K		10519-1315	12	10533-012	11991-0612
1	5	10313-1313	FC	9223-125	11992-0612
			FC	9223-150	11992-0615
			11	10533-011	11991-0711
K	3	10519-1324	12	10533-012	11991-0712
24	10018-1024	10013-1324	FC	9223-125	11992-0712
			FC	9223-150	11992-0715
			13	10533-013	11991-0813
K4		10519-1406	14	10533-014	11991-0814
6		10015 1400	FC	9223-150	11992-0815
			FC	9223-200	11992-0820
			13	10533-013	11991-0913
K4		10519-1409	14	10533-014	11991-0914
9		10010 1400	FC	9223-150	11992-0915
			FC	9223-200	11992-0920
			13	10533-013	11991-1013
K4		10519-1412	14	10533-014	11991-1014
12			FC	9223-150	11992-1015
	L		FC	9223-200	11992-1020
			13	10533-013	11991-1113
(4		10019-1415	14	10533-014	11991-1114
10			FC	9223-150	11992-1115
	_		FC	9223-200	11992-1120
		<u></u>	13	10533-013	11991-1213
K4 24		111519-1424	14	10533-014	11991-1214
24		<u> </u>	FC	9223-150	11992-1215
	L		FC	9223-200	11992-1220
K5	١.		15	10533-015	11991-1315
9			16	10533-016	11991-1316
10000			FC	9223-250	11992-1325
K 5		10-10 1-1-	15	10533-015	11991-1415
K5 15		_	16	10533-016	11991-1416
	_		-C	9223-250	11992-1425
K5		10540 4504	15	10533-015	11991-1515
24	7		16	10533-016	11991-1516
150			C	9223-250	11992-1525

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.







MRDC

MDC



Plate/Nozzle Options and Flow Performance in GPM and LPH

Plate		Plate	1110	Recommended			- 488			nu l	-1 01					
Series		Options		Nozzles	3		- T -	PS		1		4	-	BAI		
K1		K1 6° Cream		Gray #8.3	+									3.0	3.5	4.0
		Radius: 21-25' (6.4-7.6 m) Stream Ht.: 15-25" (38-64 cm)		.85 2000FC	.6	nin the re	commende	ed pressure	range of	30-60 PS	1 (2 0-4 0 1	PAR) the	9F 2000	56.4		
К2		K2 6° Light Blue			regi	lading wi	min a now	range of n	o more tha	n 3.5% gr	eater and 8	% less tha	an the nom	inal flow o	f .85 GPM	ele is flow (193 LPH).
NZ.	1	Radius: 22-26' (6.7-7.9 m) Stream Ht.: 15-32" (β8-81 cm)		White #9 Dark Blue #10	.97				1			100 27 3				
				1.0 2000FC	With regu	in the re lating wit	commende hin a flow	d pressure range of no	range of more than	30-60 PSI n 3.5% gre	(2.0-4.0 E ater and 8	BAR), the % less tha	1.0 2000 n the nomi	FC flow co	ntrol nozz	le is flow 227 LPH).
	4	K2 9° Green Radius: 23-27′ (7.0-8.2 m)		Gray #8.3	.67		2 .77	.82	.86	.90	.94	150	166	183	197	210
	-	Stream Ht.: 18-37" (46-94cm)		White #9 Dark Blue #10	.77	1	1		1.00 1.25	1.05		172 217				245 306
	17	K2 15° Yellow Radius: 27-30' (8.2-9.1 m)		.85 2000FC	With regul	in the rec	ommende in a flow r	d pressure ange of no	range of more than	30-60 PSI 3.5% gre	(2.0-4.0 B ater and 89	AP\ the	9E 2000 E	C 0		
1/2	Lagret .	Stream Ht.: 31-55 " (79-140 cm		1.0 2000FC	With	n the rec	ommende	pressure	range of	30-60 PSI	(2.0-4.0 B ater and 8%	AR) the	1 0 2000 5	c days and		
К3	2)	K3 9° Brown Radius: 25-28' (7.6-8 5 m)		Orange #11	1.17	1.2	1.36	1.45	1.53	1.61	1.68	261	294	323	350	375
		Stream Ht.: 19-33" (48-84 cm)		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)		1.25 2000FC	regula	iung with	n a now ra	nge of no r	nore than .	3.5% grea	2.0-4.0 BA ter and 8%	less than	the nomina	al flow of 1.	25 GPM (2	84 LPH).
	29	Stream Ht.: 38-63" (97-160 cm K3 24° Gray	3-63" (97-160 cm) 1.5 2000FC Within the recommended pressure range of 30-60 PSI (2.0-4.0 BAR), the 1.5 2000 regulating within a flow range of no more than 3.5% greater and 8% less than the nom	.5 2000 Fo the nomin	C flow con al flow of 1	trol nozzl 1.5 GPM (3	e is flow 41 LPH).									
		Radius: 29-35' (8.8-10.7 m) Stream Ht.: 68-103" (173-262 c	n)													
K4	4	K4 6° Turquoise Radius: 21-25' (6.1-7.6 m)	10	Yellow #13	1.64	1.78	1.90	2.02	2.13	2.23	2.34	366	411	451	487	521
	-	Stream Ht.: 10-24" (25-61 cm)	8	Green #14	1.85	2.00	2.15	2.28	2.40	2.53	2.64	413	463	509	550	590
	4	K4 9° Purple Radius: 26-32′ (7.9-9.4 m)		1.5 2000 FC	Within regular	the reco	nmended a flow rai	pressure ra	ange of 30	0-60 PSI (:	2.0-4.0 BA er and 8%	R), the 1.	5 2000 FC	flow cont	rol nozzle	is flow
	-	Stream Ht.: 28-42" (71-107 cm)		2.0 2000 FC	Within	the reco	nmended	pressure ra	ange of 30)-60 PSI (2.0-4.0 BA er and 8%	R) the 2	0 2000 FC	flow cont	rol pozzlo	in flam
	*	K4 12° Wine Radius: 27-31' (8.2-9.4 m) Stream Ht.: 32-51" (81-130 cm)												_		- T wit Hyr
	*	K4 15° Gold Radius: 27-33′ (8.2-10 1 m) Stream Ht.: 40-60″ (102-152 cm)														
	7	K4 24° Black Radius: 28-36' (8.5-11.0 m) Stream Ht.: 65-100" (165-254 cm)													
K5	41	K5 9° Orange Radius: 27-31' (8.2-9.4 m)		Tan #15	2.17	2.35	2.53	2.67	2.82	2.97	3.11	485	544	597	647	695
		Stream Ht.: 25-42" (54-107 cm)		Dark Red #16	2.50	2.70	2.89	3.07	3.23	3.40	3.54	559	624	685	739	792
1	3	K5 15° Tan Radius: 31-36' (9.4-11.0 m) Stream Ht.: 36-49" (91-124 cm)		2.5 2000FC	Within regulation	the recom	mended p a flow rang	ressure rai	nge of 30- ore than 3.	60 PSI (2. 5% greate	.0-4.0 BAR r and 8% le), the 2.5 ess than th	2000 FC ne nominal	flow control	ol nozzie GPM (56	s flow B LPH).
,	*	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.

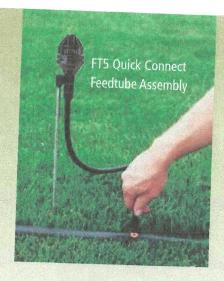
Always be sure to use the nozzle size that is recommended for the plate. The operating pressure should be within the recommended range. Only the nozzle and plate combinations grouped together in the above chart are recommended. The color of the diffuser should match the color band on the R2000 plate (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.

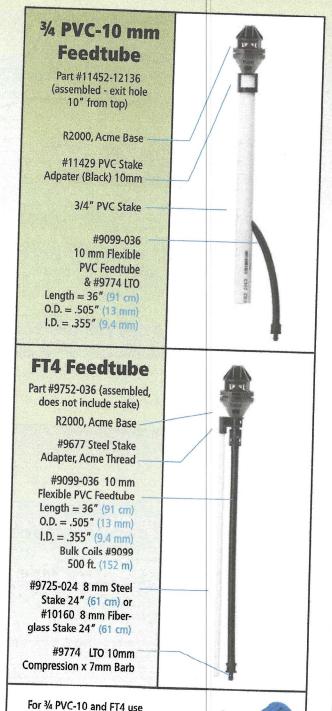
R2000 MOUNTING OPTIONS

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.

Punch Tool #9810 or Drill Tool

#9835-002.

R2000 OPTIONS AND ACCESSORIES

2000 SERIES 2TN Nozzle removal tool	PLATE	R2000(WF) REMOVAL TOOL	R2000(WF) Cap removal tool	NEW-STYLE R2000 STREAM SPLITTER	LEGACY R2000 Stream Splitter
				V	
#12260	#9620	1000	#10689	#12056	#400E7

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

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

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

#12056
Protect adjacent tree
trunks by creating a smal
wedge shape in the wetted
patterr

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

R2000(WF) FLUSH TOOL	NEW STYLE R2000(WF) MOTOR REMOVAL TOOL	COMPRESSION Adapter	R2000(WF) HIGH-ANGLE ROAD GUARD	PC-R2000WF & PC-R2000LP
#9210	#19915	#40C00		

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

#12215 Removes 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) #11296xxxx (PC-R2000LP). Road Guard unassembled

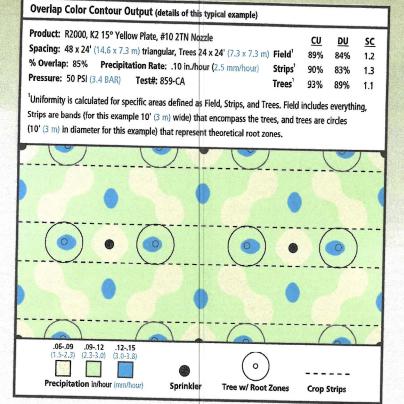
THREADED CAP For acme adapter	FEMALE ACME X 1/2" PVC SPIGOT	PRESSURE GAUGE TAP ASSEMBLY
¥10615	440050	

#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

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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