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PERFORMANCE POCKET GUIDE

# ROTATOR® TECHNOLOGY

A composite image showing the Rotator irrigation technology in use. The top portion shows a wide view of a field with multiple parallel irrigation lines and nozzles spraying water. The middle portion is a close-up of a nozzle spraying water onto a cluster of blueberries. The bottom portion shows a nozzle spraying water onto a row of young plants in a field.

Save water,  
save energy  
and do a better  
job of irrigating.

[NELSONIRRIGATION.COM](http://NELSONIRRIGATION.COM)

# Proven



# ROTATOR®



**R5**

9 - 29 GPH  
7 - 19' RAD.  
6°, 9°  
INVERTED 6°



**R10**

0.3 - 0.7 GPM  
18 - 27' RAD.  
9°, 15°



**R10T**

0.6 - 2.1 GPM  
20 - 32' RAD.  
9°, 15°, 24°

# performance

**Nelson's complete line of Rotator® sprinklers** offers many solutions to meet your tree & vine and solid set irrigation needs. More uniform water distribution patterns can be achieved, reliability is enhanced, application rates are reduced, costs and maintenance are lowered, and riser vibration is eliminated with this revolutionary sprinkler technology.

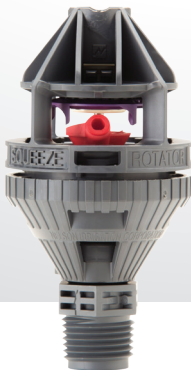


## R2000

0.7 - 3.5 GPM

21 - 37' RAD.

6°, 9°, 12°, 15°, 24°

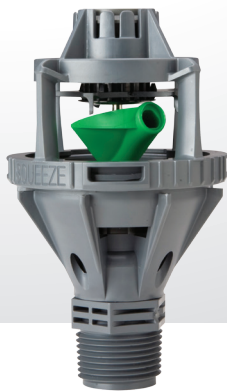


## R2000LP / WF

0.9 - 5.7 GPM

30 - 45' RAD.

25°



## R33LP / R33

2.9 - 9.6 GPM

37 - 51' RAD.

25°

# #9836-XXX (11261-XXX FOR POP-UP)



# R5

PLATE	NOZZLE	OR FLOW CONTROL:
Green = 1	#35 Orange	8.5 (#9) GPH
Wine = 2	#40 Blue	#11 GPH
Blue = 3	#45 Purple	#14 GPH
	#50 Green	#18 GPH
	#55 Yellow	#24 GPH

Plate/Nozzle Options and Flow Performance in Gallons Per Hour

Plate Options	Recommended Nozzles	PSI					
		15	20	25	30	35	40
<b>BLUE</b> Low Pressure Model UPRIGHT MOUNT Radius 10-16' Stream Ht. 5-19"	#35 Orange			9.5	10.5	11.4	12.1
	#40 Blue		10.8	12.2	13.3	14.4	
	#45 Purple	11.7	13.7	15.4	16.8	18.2	
	#50 Green	14.3	16.8	18.8	20.6	22.3	
	#55 Yellow	17.4	20.3	22.8	25.0		
<b>GREEN</b> High Pressure Model UPRIGHT MOUNT Radius 12-19' Stream Ht. 18-33"	#35 Orange				10.5	11.4	12.1
	#40 Blue				13.3	14.4	15.5
	#45 Purple			15.4	16.8	18.2	19.6
	#50 Green			18.8	20.6	22.3	23.9
	#55 Yellow			22.8	25	27	29
<b>WINE</b> INVERTED MOUNT Radius 7-14' Stream Ht. 3-10"	#35 Orange			9.5	10.5	11.4	12.1
	#40 Blue		10.8	12.2	13.3	14.4	15.5
	#45 Purple	11.7	13.7	15.4	16.8	18.2	
	#50 Green	14.3	16.8	18.8	20.6		

See following page for notes on nozzle cleaning and flow control nozzles.

## Recommended Pressure Range in PSI

5FC Nozzle Option*	BLUE	GREEN	WINE
8.5 GPH Orange 5FC	25-45		25-45
11 GPH Blue 5FC	20-45	30-45	15-45
14 GPH Purple 5FC	15-40	25-45	15-45
18 GPH Yellow 5FC	15-35	25-45	15-35
24 GPH Red 5FC	15-35	25-45	15-30

# R5 ACCESSORIES

R5 DEFLECTOR CAP	R5 ONE-SIDED STREAM SPLITTER	R5 TWO-SIDED STREAM SPLITTER
		

## #10951

Reduce the R5 radius down to 3-4 feet for watering newly-planted trees.

## #10746

Protects tree trunks — use when R5 Rotators are mounted 2-4 feet from a tree.

## #10976

Protects tree trunks — use when R5 Rotators are centered between two trees.

FEMALE ACME X R5 ADAPTER	R5 INSTALLATION TOOL	MNPT ADAPTER
		

## #10616

Use to connect the R5 Rotator to Acme Adapter threads.

## #11108

Make installing the R5 Rotator simple.

## 3/8" - #9465

## 1/2" - #9316-002

## 3/4" - #9466

Available with 3/8", 1/2" or 3/4" inlet. Use w/ #10616.

**FILTRATION & NOZZLE CLEANING FOR THE R5:** 75 mesh or finer filtration is suggested. The plate and nozzle of the R5 should not be removed when cleaning plugged nozzles. Any attempt to do so will likely cause permanent damage.

\*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.



# R10

## #9913-XXXX

NOZZLE













THREAD  
 3/8" = 0  
 1/2" = 1  
 Acme = 2

PLATE  
 Red = 1  
 White = 2  
 Orange = 7

### Example:

R10 Rotator®  
 with 1/2" Thread (1),  
 White Plate (2) and Red  
 #60 Nozzle (60) =  
 #9913-1260

Plate/Nozzle Options and Flow Performance in Gallons Per Minute

Plate Options	Recommended Nozzles	PSI					
		25	30	35	40	45	50
<b>P2 9° RED</b> Radius 18-20' Stream Ht. 14-23"	  Lt. Blue #40 <a href="#">#9306-040</a>	-	-	0.28	0.30	0.32	0.34
	 Lt. Purple #45 <a href="#">#9306-045</a>	0.29	0.32	0.35	0.37	0.39	0.42
	 Dk. Green #50 <a href="#">#9306-050</a>	0.36	0.39	0.43	0.46	0.48	0.51
	0.35 10FC*	*Use #9587-xxx. Call factory for part numbers.					
<b>P4 9° WHITE</b> Radius 18-22' Stream Ht. 13-23"	  Dk. Green #50 <a href="#">#9306-050</a>	-	-	0.43	0.46	0.48	0.51
	 Lt. Yellow #55 <a href="#">#9306-055</a>	0.44	0.48	0.52	0.55	0.59	0.62
	 Lt. Red #60 <a href="#">#9306-060</a>	0.51	0.56	0.61	0.65	0.69	0.73
	0.50 10FC*						
<b>P4 15° ORANGE</b> Radius 23-27' Stream Ht. 40-50"	  Dk. Green #50 <a href="#">#9306-050</a>	-	0.39	0.43	0.46	0.48	0.51
	 Lt. Yellow #55 <a href="#">#9306-055</a>	-	0.48	0.52	0.55	0.59	0.62
	 Lt. Red #60 <a href="#">#9306-060</a>	-	0.56	0.61	0.65	0.69	0.73
	0.50 10FC*						

\*Within the recommended pressure range of 25-50 PSI, the 0.35 and 0.50 10FC flow control nozzles are flow regulating within a flow range of no more than 0% greater and 10% less than their nominal flow (0.35 and 0.50 GPM).













## #9914-XXXX

THREAD  
 3/8" = 0  
 1/2" = 1  
 Acme = 2

PLATE  
 Blue = 3  
 Purple = 4  
 Brown = 5  
 Gold = 6

**Example:**  
 R10T Rotator®  
 with Acme Thread (2),  
 Purple Plate (4) and  
 Blue #10 Nozzle (78) =  
 #9914-2478

Plate/Nozzle Options and Flow Performance in Gallons Per Minute

Plate Options	Recommended Nozzles	PSI					
		25	30	35	40	45	50
 <b>P6 9° BLUE</b> Radius 20-22" Stream Ht. 17-30"	 Gray #8.3 <a href="#">#9306-065</a>	0.61	0.67	0.72	0.77	0.82	0.86
	 White #9 <a href="#">#9306-070</a>	0.70	0.77	0.83	0.89	0.94	1.00
	 Dk. Blue #10 <a href="#">#9306-078</a>	0.88	0.97	1.05	1.12	1.19	1.25
 <b>P6 15° PURPLE</b> Radius 24-27" Stream Ht. 31-49"	0.75 10FC* 1.0 10FC*	*Use #9587-xxx. Call factory for part numbers. Recommended pressure range for 0.75 10FC is 25-50 PSI, while the pressure range for the 1.0 10FC is 30-50 PSI.					
	 <b>P8 15° GOLD</b> Radius 28-31" Stream Ht. 38-58"	 Orange #11 <a href="#">#9306-086</a>	1.07	1.17	1.27	1.36	1.45
 <b>P8 15° GOLD</b> Radius 28-31" Stream Ht. 38-58"	 Purple #12 <a href="#">#9306-094</a>	1.27	1.39	1.50	1.61	1.70	1.80
	 Yellow #13 <a href="#">#9306-102</a>	1.50	1.64	1.78	1.90	2.02	2.13
	1.25 10FC* 1.5 10FC*	Recommended pressure range for 1.25 and 1.5 10FC is 30-50 PSI.					
 <b>P8 24° BROWN</b> Radius 27-32" Stream Ht. 67-99"	Additional Nozzles P8 24° Plate only:						
	 Dk. Blue #10 <a href="#">#9306-078</a> 1.0 10FC*	-	0.97	1.05	1.12	1.19	1.25

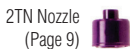
# R10T

\*Within the recommended pressure ranges (see notations within the table on the right), the 0.75 and 1.0 10FC flow control nozzles are flow regulating within a flow range of no more than 0% greater and 10% less than their nominal flow (0.75 and 1.0 GPM), while the 1.25 and 1.5 10FC are flow regulating within a flow range of no more than 3.5% greater and 8% less than their nominal flow (1.25 and 1.5 GPM).

# R2000



CAP ASSEMBLY WITH PLATE



NOZZLE & BODY ASSEMBLY



PLATE	CAP ASSEMBLY W/ PLATE	NOZZLE	NOZZLE & BODY ASSY	COMPLETE ASSY LESS ADPTR
K1 6	10519-1106	8.3	10533-008	11991-0108
		FC	9223-085	11992-0108
K2 6	10519-1206	9	10533-009	11991-0209
		10	10533-010	11991-0210
		FC	9223-100	11992-0210
		8.3	10533-008	11991-0308
K2 9	10519-1209	9	10533-009	11991-0309
		10	10533-010	11991-0310
		FC	9223-085	11992-0308
		FC	9223-100	11992-0310
K2 15	10519-1215	8.3	10533-008	11991-0408
		9	10533-009	11991-0409
		10	10533-010	11991-0410
		FC	9223-085	11992-0408
		FC	9223-100	11992-0410
		11	10533-011	11991-0511
K3 9	10519-1309	12	10533-012	11991-0512
		FC	9223-125	11992-0512
		FC	9223-150	11992-0515
		11	10533-011	11991-0611
K3 15	10519-1315	12	10533-012	11991-0612
		FC	9223-125	11992-0612
		FC	9223-150	11992-0615
		11	10533-011	11991-0711
K3 24	10519-1324	12	10533-012	11991-0712
		FC	9223-125	11992-0712
		FC	9223-150	11992-0715
		13	10533-013	11991-0813
K4 6	10519-1406	14	10533-014	11991-0814
		FC	9223-150	11992-0815
		FC	9223-200	11992-0820
		13	10533-013	11991-0913
K4 9	10519-1409	14	10533-014	11991-0914
		FC	9223-150	11992-0915
		FC	9223-200	11992-0920
		13	10533-013	11991-1013
K4 12	10519-1412	14	10533-014	11991-1014
		FC	9223-150	11992-1015
		FC	9223-200	11992-1020
		13	10533-013	11991-1113
K4 15	10519-1415	14	10533-014	11991-1114
		FC	9223-150	11992-1115
		FC	9223-200	11992-1120
		13	10533-013	11991-1213
K4 24	10519-1424	14	10533-014	11991-1214
		FC	9223-150	11992-1215
		FC	9223-200	11992-1220
		15	10533-015	11991-1315
K5 9	10519-1509	16	10533-016	11991-1316
		FC	9223-250	11992-1325
		15	10533-015	11991-1415
		16	10533-016	11991-1416
K5 15	10519-1515	FC	9223-250	11992-1425
		15	10533-015	11991-1515
		16	10533-016	11991-1516
		FC	9223-250	11992-1525



Plate Options	Radius & Stream Height	Recommended Nozzles	PSI							
			30	35	40	45	50	55	60	
 K1 6° Cream #9516-106	Rad. 21-25' Str. Ht. 15-25"	 Gray #8.3 #9306-065	0.67	0.72	0.77	0.82	0.86	0.90	0.94	
		0.85 2000FC*								
 K2 6° Lt. Blue #9516-206	Rad. 22-26' Str. Ht. 15-32"	 White #9 #9306-070	0.77	0.83	0.89	0.94	1.00	1.05	1.10	
		 Dk. Blue #10 #9306-078	0.97	1.05	1.12	1.19	1.25	1.31	1.37	
		1.0 2000FC*								
 K2 9° Green #9516-209	Rad. 23-27' Str. Ht. 18-37"	 Gray #8.3 #9306-065	0.67	0.72	0.77	0.82	0.86	0.90	0.94	
 K2 15° Yellow #9516-215	Rad. 27-30' Str. Ht. 31-55"	 White #9 #9306-070	0.77	0.83	0.89	0.94	1.00	1.05	1.10	
		 Dk. Blue #10 #9306-078	0.97	1.05	1.12	1.19	1.25	1.31	1.37	
		0.85 2000FC* & 1.0 2000FC*								
 K3 9° Brown #9516-309	Rad. 25-28' Str. Ht. 19-33"	 Orange #11 #9306-086	1.17	1.27	1.36	1.45	1.53	1.61	1.68	
 K3 15° Red #9516-315	Rad. 27-31' Str. Ht. 38-63"	 Purple #12 #9306-094	1.39	1.50	1.61	1.70	1.80	1.89	1.98	
 K3 24° Gray #9516-324	Rad. 29-35' Str. Ht. 68-103"	1.25 2000FC*								
		1.5 2000FC*								
 K4 6° Turquoise #9516-406	Rad. 21-25' Str. Ht. 10-24"	 Yellow #13 #9306-102	1.64	1.78	1.90	2.02	2.13	2.23	2.34	
 K4 9° Purple #9516-409	Rad. 26-32' Str. Ht. 28-42"	 Green #14 #9306-109	1.85	2.00	2.15	2.28	2.40	2.53	2.64	
 K4 12° Wine #9516-412	Rad. 27-31' Str. Ht. 32-51"	1.5 2000FC* 2.0 2000FC*	*Within the recommended pressure range of 30-60 PSI, the 2000FC flow control nozzles are flow regulating within a flow range of no more than 3.5% greater and 8% less than their nominal flow.							
 K4 15° Gold #9516-415	Rad. 27-33' Str. Ht. 40-60"									
 K4 24° Black #9516-424	Rad. 28-36' Str. Ht. 65-100"									
 K5 9° Orange #9516-509	Rad. 27-31' Str. Ht. 25-42"	 Tan #15 #9306-117	2.17	2.35	2.53	2.67	2.82	2.97	3.11	
 K5 15° Tan #9516-515	Rad. 31-36' Str. Ht. 36-49"	 Dk. Red #16 #9306-125	2.50	2.70	2.89	3.07	3.23	3.40	3.54	
 K5 24° Blue #9516-524	Rad. 32-37' Str. Ht. 76-104"	2.5 2000FC*								

Plate/Nozzle Options and Flow Performance  
in Gallons Per Minute

# R2000WF/LP


















The R2000WF / LP have been designed to be easily repaired. Use these pages determine the recommended plate, nozzle, motor and diffuser combinations when making repairs, or changing nozzle size.



## FULLY ASSEMBLED SPRINKLER LESS ADAPTER

PLATE	NOZZLE	COMPLETE R2000WF CAP & BODY ASSY	WF MOTOR COLOR	COMPLETE R2000LP CAP & BODY ASSY	LP MOTOR COLOR
10	10	9928-1010	Purple	9929-1010	Green
12	11	9928-1211	Ivory	9929-1211	Green
	12	9928-1212	Ivory	9929-1212	Green
14	13	9928-1413	Ivory	9929-1413	Purple
	14	9928-1414	Ivory	9929-1414	Purple
16	15	9928-1615	Ivory	9929-1615	Purple
	16	9928-1616	Ivory	9929-1616	Purple
18	18	9928-1818	Ivory	9929-1818	Purple
20	20	9928-2020	Gold	9929-2020	Purple

## Plate/Nozzle Options and Flow Performance in Gallons Per Minute

Plate Options	Recommended Nozzles	Model & Radius	PSI									
			25	30	35	40	45	50	55	60	65	
 #12113 <b>BLUE WF10</b>	 Dk. Blue #10 #9306-078	R2000LP Rad. 30-32'	0.88	0.97	1.05	1.12	1.19	1.25	-	-	-	
	Nozzle/Body Assy. (5/64") #9920-010	R2000WF Rad. 33-35'	-	-	-	1.12	1.19	1.25	1.31	1.37	1.44	
 <b>PURPLE WF12</b> #10452	 Orange #11 #9306-086	R2000LP Rad. 32-34'	1.07	1.17	1.27	1.36	1.45	1.53	-	-	-	
	Nozzle/Body Assy. (11/128") #9920-011	R2000WF Rad. 35-37'	-	-	-	1.36	1.45	1.53	1.61	1.68	1.76	
	 Purple #12 #9306-094	R2000LP Rad. 33-35'	1.27	1.39	1.50	1.61	1.70	1.80	-	-	-	
	Nozzle/Body Assy. (3/32") #9920-012	R2000WF Rad. 37-38'	-	-	-	1.61	1.70	1.80	1.89	1.98	2.06	
 <b>GREEN WF14</b> #9877	 Yellow #13 #9306-102	R2000LP Rad. 33-36'	1.50	1.64	1.78	1.90	2.02	2.13	-	-	-	
	Nozzle/Body Assy. (13/128") #9920-013	R2000WF Rad. 37-38'	-	-	-	1.90	2.02	2.13	2.23	2.34	2.45	
	 Green #14 #9306-109	R2000LP Rad. 34-37'	1.70	1.85	2.00	2.15	2.28	2.40	-	-	-	
	Nozzle/Body Assy. (7/64") #9920-014	R2000WF Rad. 38-40'	-	-	-	2.15	2.28	2.40	2.53	2.64	2.75	
 <b>RED WF16</b> #9931	 Tan #15 #9306-117	R2000LP Rad. 34-37'	1.98	2.17	2.35	2.53	2.67	2.82	-	-	-	
	Nozzle/Body Assy. (15/128") #9920-015	R2000WF Rad. 39-41'	-	-	-	2.53	2.67	2.82	2.97	3.11	3.24	
	 Red #16 #9306-125	R2000LP Rad. 36-38'	2.28	2.50	2.70	2.89	3.07	3.23	-	-	-	
	Nozzle/Body Assy. (1/8") #9920-016	R2000WF Rad. 39-41'	-	-	-	2.89	3.07	3.23	3.40	3.54	3.68	
 #9870 <b>GOLD WF18</b>	 Gold #18 #9306-141	R2000LP Rad. 38-39'	2.92	3.20	3.44	3.68	3.89	4.11	-	-	-	
	Nozzle/Body Assy. (9/64") #9920-018	R2000WF Rad. 41-42'	-	-	-	3.68	3.89	4.11	4.30	4.48	4.66	
 #9878 <b>BRN. WF20</b>	 Dk. Brown #20 #9306-156	R2000LP Rad. 40-42'	3.56	3.90	4.18	4.48	4.76	5.00	-	-	-	
	Nozzle/Body Assy. (5/32") #9920-020	R2000WF Rad. 42-45'	-	-	-	4.48	4.76	5.00	5.25	5.47	5.69	

# R10-R2000(WF) ACCESSORIES These work for R10, R10T, R2000, R2000LP, & R2000WF, unless otherwise specified.

R10 ONE-SIDED STREAM SPLITTER	R10 TWO-SIDED STREAM SPLITTER	LEGACY LOW-ANGLE ROAD GUARD
		

## #11285

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

## #11275

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

## #9590-030

Snap on R10, R10T or legacy R2000(WF) to convert to part-circle operation (200°).

LEGACY HIGH-ANGLE ROAD GUARD	PVC ADAPTER	MNPT ADAPTER
		

## #9879

Snap on R10, R10T or legacy R2000(WF) to convert to part-circle operation (200°).

## 1/2" - #10060-001

## 3/4" - #10060-002

## 25 mm - #10060-003

Available with 1/2", 3/4" or 25 mm inlet.

## 3/8" - #9465

## 1/2" - #9316-002

## 3/4" - #9466

Available with 3/8", 1/2" or 3/4" inlet.

2000 SERIES 2TN NOZZLE REMOVAL TOOL	R2000(WF) PLATE REMOVAL TOOL	R2000(WF) CAP REMOVAL TOOL
		

**#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).

R2000(WF) FLUSH TOOL	NEW STYLE R2000(WF) MOTOR REMOVAL TOOL	COMPRESSION ADAPTER
		

**#9210**

Disconnect and reconnect sprinkler for nozzle cleaning while under pressure.

**#12215**

Removes the motor from the R2000(WF).

**#10623**

1/2" Spigot x Compression Barb connects 10mm tubing to PVC.




# R10-R2000(WF) ACCESSORIES These work for R10, R10T, R2000, R2000LP, & R2000WF, unless otherwise specified.

NEW-STYLE R2000 STREAM SPLITTER	LEGACY R2000 STREAM SPLITTER	PC-R2000WF & PC-R2000LP
		

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

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



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

R2000(WF) HIGH-ANGLE ROAD GUARD	THREADED CAP FOR ACME ADAPTER	FEMALE ACME X 1/2" PVC SPIGOT
		

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

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

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

FEMALE ACME X PVC (1" OR 3/4")	PRESSURE GAUGE TAP ASSEMBLY
	

### #12214

For detachable risers.

Connection options:

3/4" Socket or 1" Spigot"

### #10367 Female Acme x

Male Acme Gauges:

0-60 PSI, #8968-002

0-100 PSI, #8968-003

0-160 PSI, #8968-004

## MINI REGULATOR/DRAIN CHECK OPTIONS

For **(Brown) MINI REGULATOR DRAIN CHECK (MRDC)** and **(Gray) MINI REGULATOR (MR)** specify pressure: 20, 30, 35, 40, 45, 50 or 60 PSI nominal pressures — and specify connection. The **(Green) MDC** is a check valve only that opens 2-5 PSI below the nominal pressure rating. Available in 20 and 35 PSI options. The R10-R2000(WF) sprinklers directly connect to the Acme outlet. The R5 requires the #10616 adapter. The R33 cannot be used with these mini regulator options.

1/2" FNPT INLET X ACME OUTLET	ACME INLET X ACME OUTLET	1/2" MNPT INLET X ACME OUTLET
		

MRDC #10406-0XX  
(SHOWN);

MR #10020-0XX;

MDC #11140-020

or -035

MRDC #10407-0XX;

MR #10099-0XX

(SHOWN);

MDC #11139-020

or -035

MRDC #11153-0XX;

MR #11149-0XX;

MDC #11157-020 or

-035 (SHOWN)

# 4 mm Stake & Tubing Options for the R5

## 1/2" PVC-4



### FULL ASSY\*

#11260-21824

4 mm x 24" tubing,  
18" stake

Choose the stake & tubing option that best suits your needs. Installation is fast and simple. Order as parts — some models available as full assemblies. Common configurations are listed with part numbers but different tubing and stake lengths are also available.

1/2" PVC stake (with 4 mm tubing) protects tubing.

## FT-01



### FULL ASSY\*

#10745-024

4 mm x 24" tubing,  
12" stake or

#10744-036

4 mm x 36" tubing,  
17.5" stake

## FT-02



### UNASSEMBLED

#10136 adapter,  
#9960-930 tubing,  
2 #9987 hanger rod  
clips (required),

24" steel stake  
#9726-024 or 24"  
fiberglass stake  
#10040-024

## FT-03






### UNASSEMBLED

#10136 adapter,  
#9960-930 tubing,

24" steel stake  
#9726-024 or 24"  
fiberglass stake  
#10040-024



## 5 mm Stake & Tubing Options for the R5 & R10

FT2	1/2 PVC-5	3/4 PVC-5
 <p><b>ASSY* LESS STAKE</b>  <b>#9741-030</b>                      5 mm x 30" tubing,                      24" steel stake  <b>#9726-024</b> or 24"                      fiberglass stake  <b>#10040-024</b></p>	 <p><b>FULL ASSY*</b>  <b>#11284-22130</b>                      5 mm x 30" tubing,                      21" stake</p>	 <p><b>FULL ASSY*</b>  <b>#11455-12130</b>                      5mm x 30" tubing,                      21" stake</p>

1/2" PVC stake (with 5 mm tubing) protects tubing.

3/4" PVC stake (with 5 mm tubing) protects tubing.

## 10 mm Stake & Tubing Options for the R10-R2000(WF)

FT4	3/4 PVC-10	FT5
 <p><b>ASSY* LESS STAKE</b>  <b>#9752-036</b>                      10mm x 36" tubing                      24" steel stake  <b>#9725-024</b> or 24"                      fiberglass stake  <b>#10160</b></p>	 <p><b>FULL ASSY*</b>  <b>#11452-12136</b>                      10mm x 36" tubing,                      21" stake</p>	 <p><b>ASSY* LESS STAKE</b>  <b>#9737-048</b>                      10mm x 36" tubing                      48" steel stake  <b>#9725-048</b> or                      24" fiberglass stake  <b>#10160</b></p>

3/4" PVC stake (with 10 mm tubing) protects tubing.

Quick disconnect/reconnect feature facilitates use of LD polyethylene pipe (1.25" to 2") in a portable system (50-80 psi).

# R33LP/R33



Nelson Irrigation Corporation recommends that the R33 & R33LP be stocked and purchased as a full assembly. Please order all other parts for the purpose of repairs only.



Retainer #11039

Plate (Page 15)

Bearing  
#11077

Body  
#11076











Nozzle (Page 13)

Adapter w/ O-ring  
#11344

O-ring  
#11343

PLATE & NOZZLE	ASSEMBLED R33 CAP, BODY & ADAPTER	ASSEMBLED R33 CAP, BODY (NO ADAPTER)
18	11466-1018	11336-018
20	11466-1020	11336-020
22	11466-1022	11336-022
24	11466-1024	11336-024
26	11466-1026	11336-026

PLATE & NOZZLE	ASSEMBLED R33LP CAP, BODY & ADAPTER	ASSEMBLED R33LP CAP, BODY (NO ADAPTER)
18	11466-1118	11336-118
20	11466-1120	11336-120
22	11466-1122	11336-122
24	11466-1124	11336-124
26	11466-1126	11336-126

Plate Options	Recommended Nozzles	Model & Radius	PSI								
			25	30	35	40	45	50	55	60	65
 <b>GOLD 18</b> #10974-018	 Gold #18 #11078-018 (9/64")	R33LP Rad. 37-42'	2.88	3.15	3.40	3.64	3.86	4.07	-	-	-
		R33 Rad. 43-44'	-	-	-	3.64	3.86	4.07	4.27	4.46	4.65
 <b>BROWN 20</b> #10974-020	 Brown #20 #11078-020 (5/32")	R33LP Rad. 38-44'	3.52	3.85	4.16	4.45	4.72	5.00	-	-	-
		R33 Rad. 45-47'	-	-	-	4.45	4.72	5.00	5.22	5.45	5.68
 <b>GRAY 22</b> #10974-022	 Gray #22 #11078-022 (11/64")	R33LP Rad. 39-44'	4.24	4.64	5.02	5.37	5.70	6.01	-	-	-
		R33 Rad. 46-48'	-	-	-	5.37	5.7	6.01	6.3	6.57	6.83
 <b>GREEN 24</b> #10974-024	 Green #24 #11078-024 (3/16")	R33LP Rad. 41-46'	5.00	5.50	5.96	6.38	6.78	7.16	-	-	-
		R33 Rad. 49-50'	-	-	-	6.38	6.78	7.16	7.52	7.85	8.18
 <b>MAROON 26</b> #10974-026	 Maroon #26 #11078-026 (13/64")	R33LP Rad. 43-47'	5.90	6.50	7.05	7.55	8.00	8.45	-	-	-
		R33 (Prelim.) Rad. 46-51'	-	-	-	7.55	8.00	8.45	8.85	9.25	9.60

## R33LP/R33 ACCESSORIES

R33LP/R33 FLUSH TOOL	R33LP/R33 ROAD GUARD	33TN NOZZLE REMOVAL TOOL	DIFFUSER/MOTOR INSTL/RMV TOOL
			

(Short) **#11161-001**;  
 (Long) **#11161-002**  
 Disconnect and re-connect sprinkler for nozzle cleaning while under pressure.

**#11363**  
 Snap on R33LP/R33 to convert to part-circle operation.

**#11473**  
 Removes the nozzle from the R33 body.

**#11478**  
 Aids in disassembling and reassembling the cap assembly, motor and diffuser.

Only the nozzle and plate combinations grouped together in the enclosed charts are recommended. The absence of flow data on a given chart indicates the pressure is outside the recommended range.

The performance data in this booklet 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.



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