



R

PERFORMANCE POCKET GUIDE

ROTATOR[®] TECHNOLOGY

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

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.



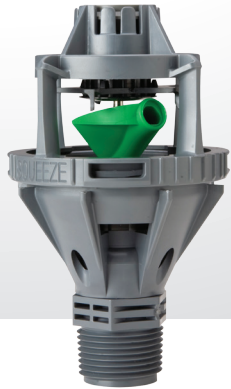
R2000

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)



PLATE
 Green = 1
 Wine = 2
 Blue = 3

NOZZLE
 #35 Orange
 #40 Blue
 #45 Purple
 #50 Green
 #55 Yellow

OR FLOW CONTROL:
 8.5 (#9) GPH
 #11 GPH
 #14 GPH
 #18 GPH
 #24 GPH

Plate/Nozzle Options and Flow Performance in Gallons Per Hour

R5

Plate Options	Recommended Nozzles	PSI					
		15	20	25	30	35	40
BLUE 6° 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		
GREEN 9° 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
WINE 5° 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

FEMALE ACME X R5 ADAPTER	R5 DEFLECTOR CAP	R5 ONE-SIDED STREAM SPLITTER
		

#10616






Use to connect the R5 Rotator to Acme Adapter threads. See page 12 for MNPT Adapters.

#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.

R5 TWO-SIDED STREAM SPLITTER	ACME X DRIP CONFIGURATION	R5 INSTALLATION TOOL
	<p>BARBED TEE (PURCHASE SEPARATELY)</p>  <p>#12431 FEMALE ACME X BARBED TEE FITTING</p>  <p>#11271 MALE ACME ADAPTER</p> 	

#10976 (#12050 for R5 Pop-up) Protects tree trunks — use when R5 Rotators are centered between two trees.

#12431 Female Acme x Barbed Tee to alternate Rotator sprinklers & drip.

#11108 Make installing the R5 Rotator simple.

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
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
 P2 9° RED Radius 18-20' Stream Ht. 14-23"	 Lt. Blue #40 #9306-040	-	-	0.28	0.30	0.32	0.34
	 Lt. Purple #45 #9306-045	0.29	0.32	0.35	0.37	0.39	0.42
	 Dk. Green #50 #9306-050	0.36	0.39	0.43	0.46	0.48	0.51
	NEW! 0.35 10FC* 0.43 10FC*		*Use #9587-xxx. Call factory for part numbers.				
 P4 9° WHITE Radius 18-22' Stream Ht. 13-23"	 Dk. Green #50 #9306-050	-	-	0.43	0.46	0.48	0.51
	 Lt. Yellow #55 #9306-055	0.44	0.48	0.52	0.55	0.59	0.62
	 Lt. Red #60 #9306-060	0.51	0.56	0.61	0.65	0.69	0.73
	0.50 10FC*						
 P4 15° ORANGE Radius 23-27' Stream Ht. 40-50"	 Dk. Green #50 #9306-050	-	0.39	0.43	0.46	0.48	0.51
	 Lt. Yellow #55 #9306-055	-	0.48	0.52	0.55	0.59	0.62
	 Lt. Red #60 #9306-060	-	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, 0.43 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, 0.43 and 0.50 GPM).

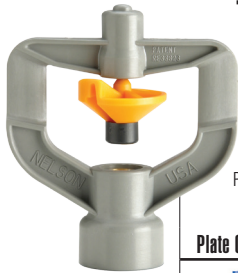
#9914-XXXX

THREAD
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



R10T

Plate/Nozzle Options and Flow Performance in Gallons Per Minute

Plate Options	Recommended Nozzles	PSI					
		25	30	35	40	45	50
 P6 9° BLUE Radius 20-22' Stream Ht. 17-30"	 Gray #8.3 #9306-065	0.61	0.67	0.72	0.77	0.82	0.86
	 White #9 #9306-070	0.70	0.77	0.83	0.89	0.94	1.00
	 Dk. Blue #10 #9306-078	0.88	0.97	1.05	1.12	1.19	1.25
 P6 15° PURPLE 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.					
	 P8 15° GOLD Radius 28-31' Stream Ht. 38-58"	 Orange #11 #9306-086	1.07	1.17	1.27	1.36	1.45
 P8 15° GOLD Radius 28-31' Stream Ht. 38-58"	 Purple #12 #9306-094	1.27	1.39	1.50	1.61	1.70	1.80
	 Yellow #13 #9306-102	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.					
 P8 24° BROWN Radius 27-32' Stream Ht. 67-99"	Additional Nozzles P8 24° Plate only:						
	 Dk. Blue #10 #9306-078 1.0 10FC*	-	0.97	1.05	1.12	1.19	1.25

*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

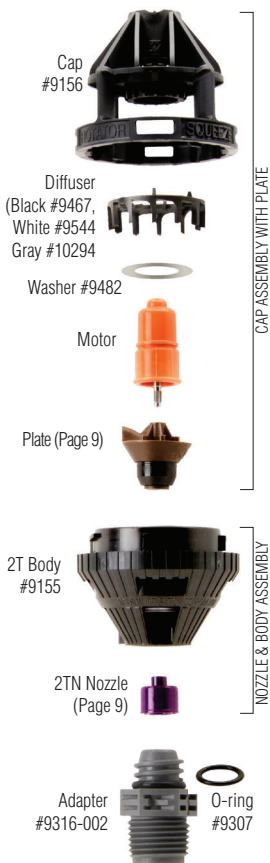


PLATE	CAP ASSEMBLY W/ PLATE	NOZZLE	NOZZLE & BODY ASSY	COMPLETE ASSY LESS ADPTR
K1 6	10519-1106	8.3	10533-008	11991-0108
		FC	9223-085	11992-0108
K2 6	10519-1206	9	10533-009	11991-0209
		10	10533-010	11991-0210
		FC	9223-100	11992-0210
		8.3	10533-008	11991-0308
K2 9	10519-1209	9	10533-009	11991-0309
		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
K5 24	10519-1524	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

25° Plate Options	Recommended Nozzles	Model & Radius	PSI								
			25	30	35	40	45	50	55	60	65
 12113 BLUE WF10	 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
 PURPLE WF12 #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
 GREEN WF14 #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
 RED WF16 #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 GOLD WF18	 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 BRN. WF20	 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

ROTATOR® TECHNOLOGY HAS MADE ITS MARK ON SOLID SET IRRIGATION.

The R2000WF has been effectively obsoleting ½” brass impact sprinklers by providing superior uniformity in real world conditions. CONSIDER OTHER NELSON PRODUCTS TO MAXIMIZE THE EFFICIENCY OF ROTATOR SPRINKLERS.



DRAIN CHECK

Combine Rotator® Sprinklers with Mini Regulator Drain Checks (MRDC) or Mini Drain Checks (MDC) to prevent drain down on system start up and shut down. Pressure regulation improves overall crop uniformity.



CONTROL VALVE

Use Nelson's new plastic IN-LINE (2", 3", 4") or TEE (2") 1000 Series Control Valves for easy manual on/off, pressure control, and/or automation.



AUTOMATION

TWIG® WIRELESS CONTROLS.

Simply connect Nelson TWIGs to Nelson Control Valves and tie into the TD200 Controller for automation of new or existing installations.



R2000CW



Cow Wash #11993-XXXX

- #11993-1014 (Green Nozzle)
- #11993-1016 (Dk. Red Nozzle)
- #11993-1018 (Gold Nozzle)

Cap
#9156



Washer #9482



Light Green
Motor



CAP ASSEMBLY WITH PLATE

2T Body
#9155



2TN Nozzle
(#14, #16
or #18)







NOZZLE & BODY ASSEMBLY

Adapter
#9316-002



O-ring
#9307



Plate Options	Radius & Stream Height	Recommended Nozzles	PSI						
			30	35	40	45	50	55	60
 K4 12° Wine #9516-412	Rad. 27-31" Str. Ht. 31-40"	 Green #14 #9306-109	1.85	2.00	2.15	2.28	2.40	2.53	2.64
		 Dk. Red #16 #9306-125	2.50	2.70	2.89	3.07	3.23	3.40	3.54
		 Gold #18 #9306-141	3.20	3.44	3.68	3.89	4.11	4.30	4.48

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 SOCKET OR SPIGOT	CAP X PVC SOCKET OR SPIGOT	PRESSURE GAUGE TAP ASSEMBLY
		

#12214-001
For detachable risers.
3/4" Female Acme x 3/4"
PVC Socket or 1" PVC
Spigot

#12214-003
For detachable risers.
Cap, Female Acme x 3/4"
PVC Socket or 1" PVC
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" FNPT INLET X 1/2" MNPT 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 **#11150-0XX**;
MR **#11146-0XX**;
MDC **#11154-020** 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	FT3	1/2 & 3/4 PVC-5
 <p>ASSY* LESS STAKE #9741-030 5 mm x 30" tubing, 24" steel stake #9726-024 or 24" fiberglass stake #10040-024</p>	 <p>FULL ASSY* #12601-030 5 mm x 30" tubing, 12" stake or #12600-030 17.5" stake</p>	 <p>FULL ASSY* #11284-22130 5 mm x 30" tubing, 21" stake (1/2" bore) FULL ASSY* #11455-12130 5mm x 30" tubing, 21" stake (3/4" bore)</p>

1/2 " or 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>ASSY* LESS STAKE #9752-036 10mm x 36" tubing 24" steel stake #9725-024 or 24" fiberglass stake #10160</p>	 <p>FULL ASSY* #11452-12136 10mm x 36" tubing, 21" stake</p>	 <p>ASSY* LESS STAKE #9737-048 10mm x 36" tubing 48" steel stake #9725-048 or 24" fiberglass stake #10160</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.











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



O-ring #11343

24° Plate Options	Recommended Nozzles	Model & Radius	PSI								
			25	30	35	40	45	50	55	60	65
 GOLD 18 #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
 BROWN 20 #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
 GRAY 22 #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
 GREEN 24 #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
 MAROON 26 #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.

#11826-2XX (SEE BELOW FOR ASSEMBLIES)

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



S5

Plate/Nozzle Options and Flow Performance in Gallons Per Hour

Plate Options	Recommended Nozzles	PSI					
		15	20	25	30	35	40
WINE 5° INVERTED MOUNT Radius 9-13'	#35 Orange			9.5	10.5	11.4	12.1
	#40 Blue	9.3	10.8	12.2	13.3	14.4	15.5
	#45 Purple	10.8	13.7	15.4	16.8	18.2	19.6
	#50 Green	14.3	16.8	18.8	20.6	22.3	
	#55 Yellow	17.4	20.3	22.8	25.0		

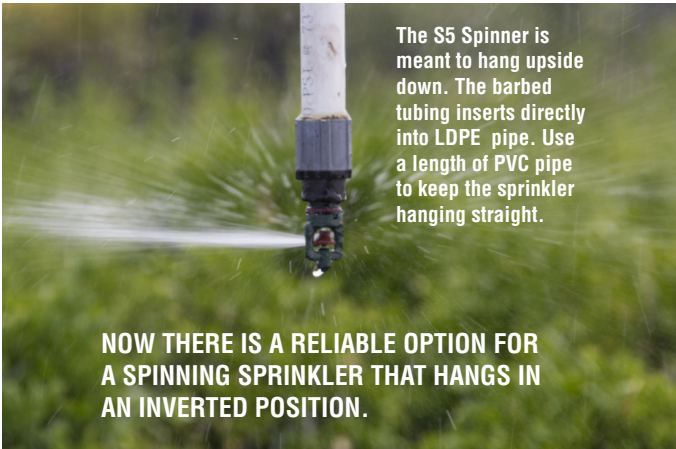
Recommended Pressure Range in PSI

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

*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. 8.5 Orange 5FC nominal flow is 8.5 GPH, 11 Blue 5FC nominal flow is 11 GPH, 14 Purple 5FC nominal flow is 14 GPH, 18 Yellow 5FC nominal flow is 18 GPH, 24 Red 5FC nominal flow is 24 GPH.

Use the S5 Spinner for irrigation in organic and conventional production where all pipe and sprinklers are attached to the trellis wire and are thus up and out of the way of cultivation equipment. Applications include tree fruit, vineyards, greenhouse and kiwi. Sealed bearing prevents stalling – even in conditions of blowing sand and dust. The S5 can be applied to concentrate water application more heavily in the tree row with less being applied to the drive alley center.

FILTRATION & NOZZLE CLEANING: 75 mesh or finer filtration is suggested.



The S5 Spinner is meant to hang upside down. The barbed tubing inserts directly into LDPE pipe. Use a length of PVC pipe to keep the sprinkler hanging straight.

NOW THERE IS A RELIABLE OPTION FOR A SPINNING SPRINKLER THAT HANGS IN AN INVERTED POSITION.

FT-04 Stake Assembly

COMPLETE ASSEMBLIES INCLUDE:

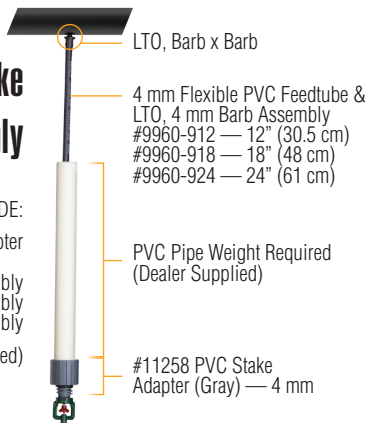
4 mm tubing, LTO & 11258 adapter

#12422-012 — 12" Assembly

#12422-018 — 18" Assembly

#12422-024 — 24" Assembly

PVC Pipe Weight (not included)



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.



848 Airport Road, Walla Walla, WA 99362 U.S.A.

Tel: +1 509.525.7660 / Fax: +1 509.525.7907

info@nelsonirrigation.com / nelsonirrigation.com

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