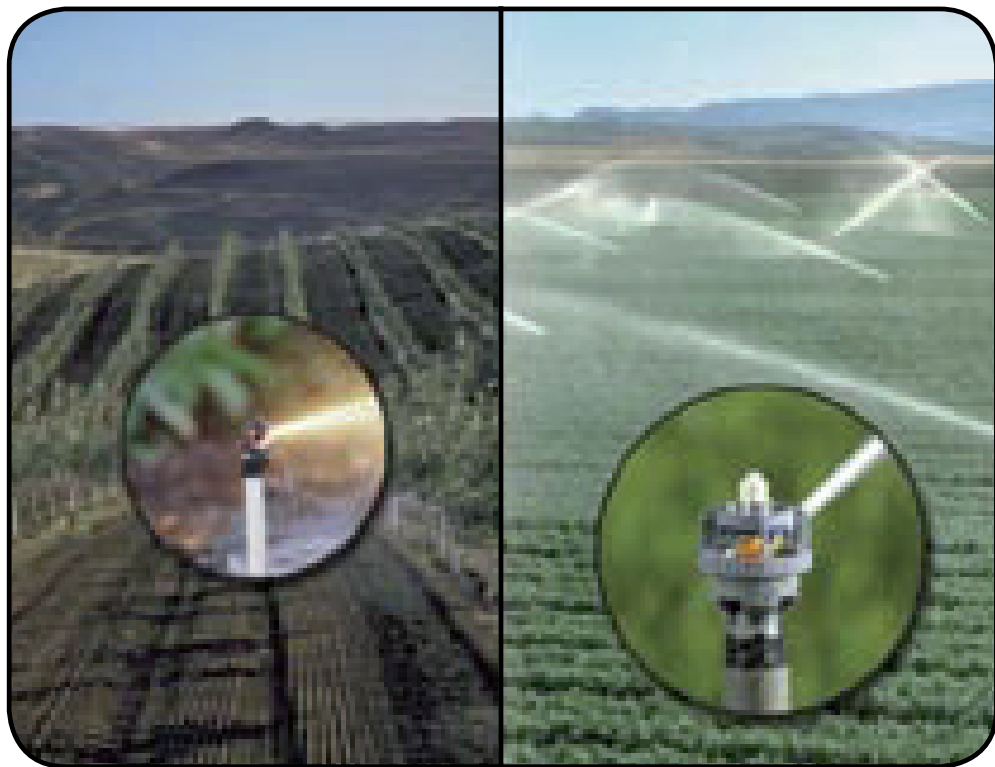




SAVE WATER, SAVE ENERGY
and do a better job of irrigating.

rotator[®] technology

ROTATOR PERFORMANCE DETAILS



Copyright © 2006 Nelson Irrigation Corporation

Auckland NZ
PH: (09) 919 7600
FAX: (09) 919 7604

Distributed by: **aquaspec**
www.aquaspec.co.nz 0800 353 966

Christchurch NZ
PH: (03) 968 3230
FAX: (03) 968 3231

PROVEN 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. *High uniformity means improved yield and grade.*

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.

Always be sure:

- To use the nozzle size that is recommended for the plate.
- The operating pressure is within the recommended range.

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

Auckland NZ
PH: (09) 919 7600
FAX: (09) 919 7604

Distributed by: **aquaspec**
www.aquaspec.co.nz 0800 353 966

Christchurch NZ
PH: (03) 968 3230
FAX: (03) 968 3231

R5



Plate |
#9836-XXX

Plate: Green = 1
Wine = 2
Blue = 3

Nozzle: #35 Orange, #40 Blue, #45 Purple, #50 Green, #55 Yellow, or Flow Control: #9 (32 lph), #11 (41 lph), #14 (53 lph), #18 (68 lph), #24 (90 lph)

Flow in LPH

Plate Options	Recommended Nozzles	BAR							
		1.0	1.25	1.50	1.75	2.0	2.25	2.5	2.75
BLUE LOW PRESSURE MODEL upright mount Radius 3.4 - 4.9 m	#35 Orange			34	36	39			
	#40 Blue	34	39	43	46	49			
	#45 Purple	44	49	54	59	63			
	#50 Green	53	60	66	72	77			
	#55 Yellow	65	73	80	87				
GREEN HIGH PRESSURE MODEL upright mount Radius 4.2 - 5.2 m	#35 Orange					39	42	44	46
	#40 Blue				46	49	53	56	59
	#45 Purple				59	63	67	70	74
	#50 Green				72	77	81	86	91
	#55 Yellow				87	93	99	104	110
WINE inverted mount Radius 3.3 - 4.6 m	#35 Orange				36	39	42	44	46
	#40 Blue			43	46	49	53	56	59
	#45 Purple	44	49	54	59	63	67	70	74
	#50 Green	53	60	66	72	77			

FILTRATION & NOZZLE CLEANING: 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.

Recommended Pressure Range in BAR for 5FC Nozzles

5FC NOZZLE OPTION*	BLUE	GREEN	WINE
32 LPH Orange 5FC	1.4-2.8	—	1.4-3.1
41 LPH Blue 5FC	1-2.8	1.7-3.1	1-3.1
53 LPH Purple 5FC	1-2.4	1.7-3.1	1-3.1
68 LPH Yellow 5FC	1-2	1.7-3.1	1-2
90 LPH Red 5FC	1-2	1.7-3.1	1-1.7

*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.

Auckland NZ
PH: (09) 919 7600
FAX: (09) 919 7604

Distributed by: **aquaspec**
www.aquaspec.co.nz 0800 353 966

Christchurch NZ
PH: (03) 968 3230
FAX: (03) 968 3231













R10

Flow in LPH

Thread ———— | ———— Nozzle
 Plate
#9913-XXXX

Thread: 3/8" = 0 **Plate:** Red = 1
 1/2" = 1 White = 2
 Acme = 2 Blue = 3

Example: R10 Rotator with Acme Thread (2), Blue Plate (3) and Gray #65 Nozzle (65) = #9913-2365

Plate Options	Recommended Nozzles	BAR						
		1.75	2.00	2.25	2.50	2.75	3.00	3.25
P2 9° RED Radius 5.5-6.1 m Stream Ht. 38-51 cm 	 Lt. Blue #40 #9306-040	—	—	61.4	64.7	68.0	71.3	74.6
	 Lt. Purple #45 #9306-045	66.4	71.3	76.3	80.6	83.9	—	—
	 Dk. Green #50 #9306-050 .35 10FC (79.5 lph)*	82.3	87.2	93.4	99.4	104	—	—
P4 9° WHITE Radius 5.5-6.4 m Stream Ht. 33-53 cm 	 Dk. Green #50 #9306-050	—	—	93.4	99.4	104	108	112
	 Lt. Yellow #55 #9306-055	101	107	114	120	125	—	—
	 Lt. Red #60 #9306-060 .50 10FC (114 lph)*	117	125	133	141	147	—	—
P6 9° BLUE Radius 5.8-6.4 m Stream Ht. 43-53 cm 	 Gray #65 #9306-065	140	150	158	166	175	—	—
	 White #70 #9306-070	160	172	182	192	202	—	—
	 Dk. Blue #9306-078 .75 10FC (170 lph)*	201	217	230	242	—	—	—

*Use #9587-xxx. Call factory for part numbers. Flow control nozzle sizes are flow regulating within a flow range of no more than 0% greater and 10% less than the nominal flow.

Auckland NZ
 PH: (09) 919 7600
 FAX: (09) 919 7604

Distributed by: **aquaspec**
 www.aquaspec.co.nz 0800 353 966

Christchurch NZ
 PH: (03) 968 3230
 FAX: (03) 968 3231

R10T














Flow in LPH

Thread | | Nozzle
#9914-XXXX

Thread: 3/8" = 0
 1/2" = 1
 Acme = 2
Plate: Blue = 3
 Purple = 4; Yellow = 6
 Brown = 5

Example: R10T Rotator with 1/2" Thread (1), Brown Plate (5) and Purple #94 Nozzle (94) = #9914-1594

Plate Options	Recommended Nozzles	BAR						
		1.75	2.00	2.25	2.50	2.75	3.00	3.25
P6 9° BLUE Radius 5.8-6.7 m Stream Ht. 43-58 cm 	 Gray #65 #9306-065	140	150	158	166	175	183	190
	 White #70 #9306-070	160	172	182	192	202	210	219
	 Dk. Blue #78 #9306-078	201	217	230	242	254	266	276
P6 15° PURPLE Radius 7.3-7.9 m Stream Ht. 86-102 cm 	.75 10FC (170 lph)*							
	1.0 10FC (222 lph)*							
P8 15° GOLD Radius 7.6-8.8 m Stream Ht. 91-106 cm 	 Orange #86 #9306-086	245	261	278	294	308	323	337
	 Purple #94 #9306-094	290	311	329	347	365	380	396
	 Yellow #102 #9306-102	343	366	389	411	431	451	469
P8 24° BROWN Radius 9.1-9.4 m Stream Ht. 157-226 cm 	1.25 10FC (284 lph)*							
	1.5 10FC (341 lph)*							
Additional Nozzles for P8 24° Plate only:  Dk. Blue #78 #9306-078	1.0 10FC (227 lph)*	201	217	230	242	254	266	276

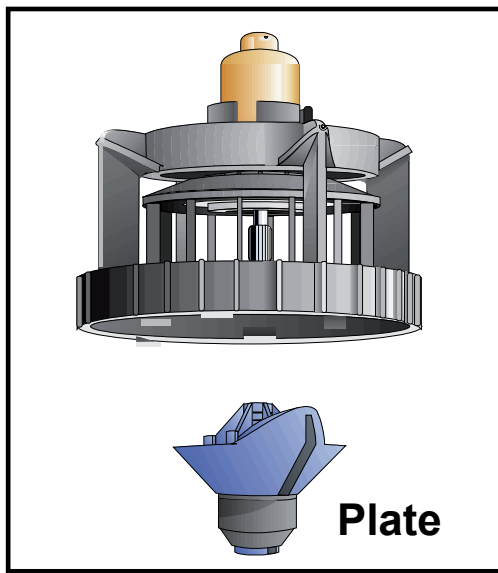
*Use #9587-xxx. Call factory for part numbers. The 10 FC flow control nozzle size .75 is flow regulating within a flow range of no more than 0% greater and 10% less than the nominal flow. Flow control nozzle sizes 1.0, 1.25, 1.5 are flow regulating within a flow range of no more than 2.5% greater and 8% less than the nominal flow. (See above 2 BAR.)

Auckland NZ
 PH: (09) 919 7600
 FAX: (09) 919 7604

Distributed by: **aquaspec**
 www.aquaspec.co.nz 0800 353 966

Christchurch NZ
 PH: (03) 968 3230
 FAX: (03) 968 3231

R2000



Cap Assembly with Plate

#10519-xxxx

(See part numbers for cap assemblies with plates on page 7)

Flow Control Body with Nozzle

.85 2000 FCN
#9223-085

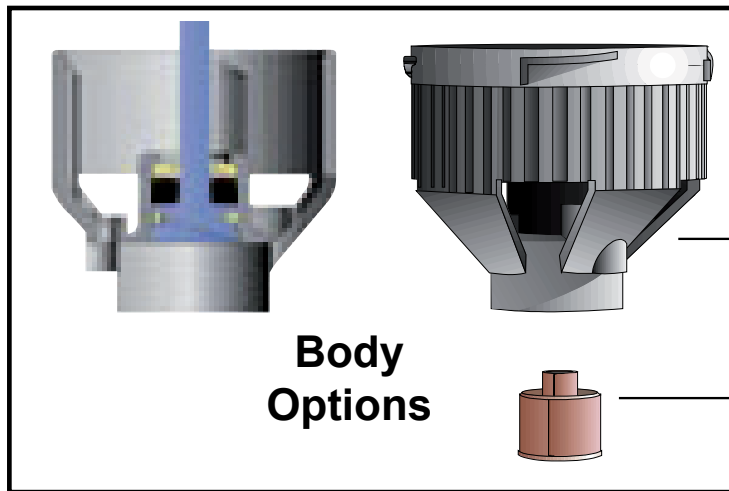
1.0 2000 FCN
#9223-100

1.25 2000 FCN
#9223-125

1.5 2000 FCN
#9223-150

2.0 2000 FCN
#9223-200

2.5 2000 FCN
#9223-250



Body Options

2T Body & Nozzle Assy

#10533-xxx

(-008, 009, 010 etc.)

2T Body

#9155

2TN Nozzle

(See page 7)

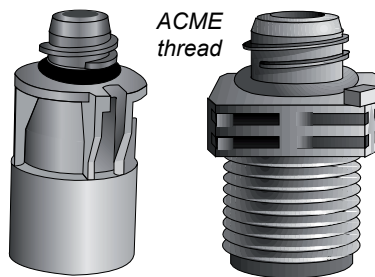
PVC Adapter

1/2" - #10060-001

3/4" - #10060-002

25mm - #10060-003

Adapter Options



ACME thread

MNPT Adapter

3/8" - #9465

1/2" - #9316

3/4" - #9466

TO ORDER (unassembled): Specify Cap Assembly & Plate, Body & Nozzle, and Adapter. For example: R2000, K3 9° = 10519-1309 (cap assy w/ brown plate), 10533-011 (2T Body w/ orange nozzle), 9316 (1/2" MNPT x acme)

Auckland NZ
PH: (09) 919 7600
FAX: (09) 919 7604

Distributed by: **aquaspec**
www.aquaspec.co.nz 0800 353 966

Christchurch NZ
PH: (03) 968 3230
FAX: (03) 968 3231

Flow in LPH

Plate Options	Recommended Nozzles	BAR				
		2.0	2.5	3.0	3.5	4.0
 K2 9° Green Radius 7.0-8.2 m Stream Ht. 43-71 cm #10519-1209  K2 15° Yellow Radius 7.9-8.8 m Stream Ht. 94-122 cm #10519-1215	 Gray #8.3 #9306-065  White #9 #9306-070  Dark Blue #10 .85 2000FC (193 lph)* 1.0 2000FC (227 lph)*	150	166	183	197	210
		172	192	210	229	245
 K3 9° Brown Radius 7.6-8.5 m Stream Ht. 43-64 cm #10519-1309  K3 15° Red Radius 8.2-9.4 m Stream Ht. 104-130 cm #10519-1315  K3 24° Gray Radius 8.8-10.7 m Stream Ht. 185-226 cm #10519-1324	 Orange #11 #9306-086  Purple #12 #9306-094 1.25 2000FC (284 lph)* 1.5 2000FC (341 lph)*	261	294	323	350	375
		311	347	380	412	442
 K4 6° Turquoise Radius 7.0-8.5 m Stream Ht. 33-56 cm #10519-1406  K4 9° Purple Radius 7.3-8.9 m Stream Ht. 54-79 cm #10519-1409  K4 12° Wine Radius 8.8-9.4 m Stream Ht. 79-102 cm #10519-1412  K4 15° Gold Radius 8.8-10.0 m Stream Ht. 79-109 cm #10519-1415  K4 24° Black Radius 8.8-11.0 m Stream Ht. 183-226 cm #10519-1424	 Yellow #13 #9306-102  Green #14 #9306-109 1.5 2000 FC (341 lph)* 2.0 2000 FC (454 lph)*	366	411	451	487	521
		413	463	509	550	590
 K5 9° Orange Radius 8.5-9.8 m Stream Ht. 58-86 cm #10519-1509  K5 15° Tan Radius 9.5-10.4 m Stream Ht. 81-104 cm #10519-1515  K5 24° Blue Radius 10.7-11.6 m Stream Ht. 206-257 cm #10519-1524	 Tan #15 #9306-117  Dark Red #16 #9306-125 2.5 2000FC (568 lph)*	485	544	597	647	695
		559	624	685	739	792

*When using recommended pressure for a given plate and nozzle configuration, 2000FC flow control nozzle

Auckland NZ
PH: (09) 919 7600
FAX: (09) 919 7604

Distributed by: **aquaspec**
www.aquaspec.co.nz 0800 353 966

Christchurch NZ
PH: (03) 968 3230
FAX: (03) 968 3231

R2000WF



Assembled R2000WF

WF12 #10
9928-1210

WF12 #11
9928-1211

WF12 #12
9928-1212

WF14 #13
9928-1413

WF14 #14
9928-1414

WF16 #15
9928-1615

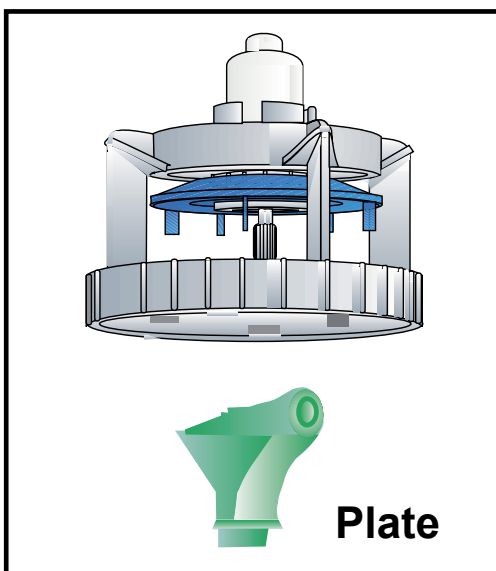
WF16 #16
9928-1616

WF18 #18
9928-1818

WF20 #20
9928-2020

PVC Adapter

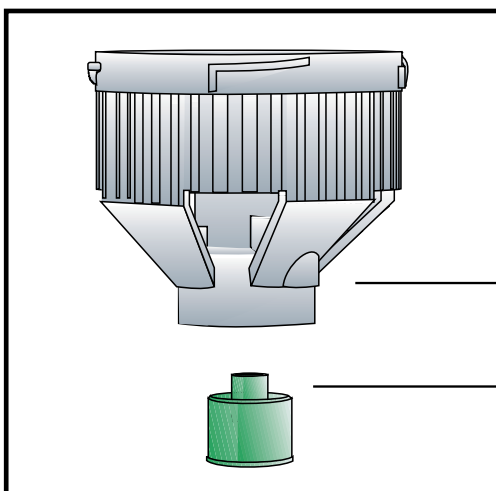
1/2" - #10060-001
3/4" - #10060-002
25mm - #10060-003



Cap Assembly with Plate

#10299-xxx

(See part numbers for cap assemblies with plates on page 9)



WF Body & Nozzle Assy

#9920-xxx

(-010,011, 012 etc.)

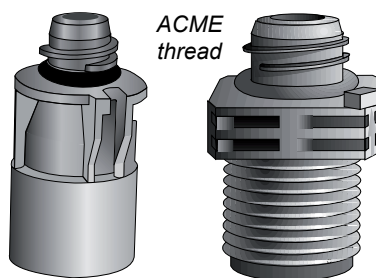
WF Body

#9920

2TN Nozzle

(See page 9)

Adapter Options



MNPT Adapter

3/8" - #9465
1/2" - #9316
3/4" - #9466















TO ORDER (unassembled): Specify Cap Assembly & Plate, Body & Nozzle, and Adapter. For example: R2000WF, WF20 = 10299-120 (cap assy w/ brown plate), 9920-020 (WF Body w/ brown nozzle), 9466 (3/4" MNPT x acme)

Auckland NZ
PH: (09) 919 7600
FAX: (09) 919 7604

Distributed by: **aquaspec**
www.aquaspec.co.nz 0800 353 966

Christchurch NZ
PH: (03) 968 3230
FAX: (03) 968 3231

Flow in LPH

Plate Options*	Recommended Nozzles	BAR				
		2.0	2.5	3.0	3.5	4.0
Purple WF12  Radius 10.4-11.3 m #10299-110 (w/ #10) #10299-112 (w/ #11 or #12 Nozzle)	#10 Blue** #9306-078 	217	242	266	286	306
	#11 Orange #9306-086 	261	294	323	350	375
	#12 Purple #9306-094 	311	347	380	412	442
Green WF14  Radius 11.9-12.5 m #10299-114	#13 Yellow (13/128) #9306-102 	366	411	451	487	521
	#14 Green (7/64) #9306-109 	413	463	509	550	590
Red WF16  Radius 12.2-12.8 m #10299-116	#15 Tan (15/128) #9306-117 	485	544	597	647	695
	#16 Red (1/8) #9306-125 	559	624	685	739	792
Gold WF18  Radius 12.5-13.1 m #10299-118	#18 Gold (9/64) #9306-141 	716	795	869	940	1001
Dark Brown WF20  Radius 12.8-13.7 m #10299-120	#20 Dark Brown*** #9306-156 	873	966	1062	1144	1222

*All plate options are high angle.

**Always use a purple motor (brake) in combination with a #10 nozzle.

***Always use a gold motor (brake) and brown plate in combination with a #20 nozzle.

R5 ACCESSORIES



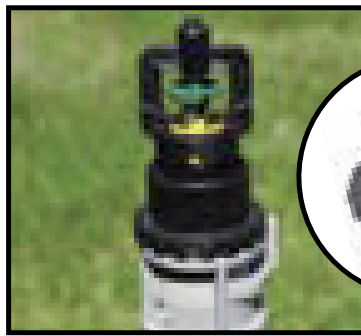
Stream Splitter (1-sided)
10746



Stream Splitter (2-sided)
10976



Deflector Cap
10951



Female Acme x
R5 Adapter **10616**

ROTATOR ACCESSORIES



Threaded Cap
for Acme Adapter
10615



Female Acme x
1/2" PVC Spigot
10352



Pressure Gauge
Tap Assembly
10367



Pressure Gauge
0-60 PSI = **8968-002**
0-100 PSI = **8968-003**
0-160 PSI = **8968-004**

Auckland NZ
PH: (09) 919 7600
FAX: (09) 919 7604

Distributed
by:
aquaspec
www.aquaspec.co.nz

0800 353 966

Christchurch NZ
PH: (03) 968 3230
FAX: (03) 968 3231

Mini Regulator

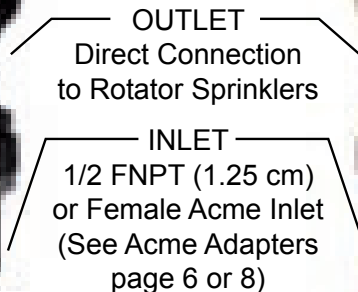
(shown on R2000)

30 PSI (2 bar),
35 PSI (2.4 bar),
40 PSI (2.8 bar),
45 PSI (3.1 bar)
or 50 PSI (3.4 bar)
Options

FNPT Inlet,
10020-xxx
Acme Inlet,
10099-xxx



The pressure option completes the part no. (i.e. a 50 PSI FNPT Inlet MiniRegulator is #10020-050)



Mini Regulator Drain Check

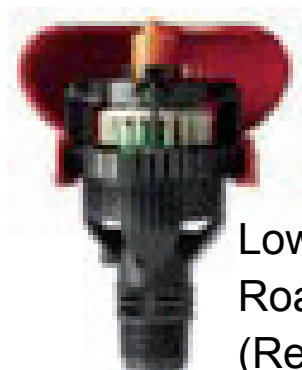
(shown on R2000WF)

30 PSI (2 bar),
35 PSI (2.4 bar),
40 PSI (2.8 bar),
45 PSI (3.1 bar)
or 50 PSI (3.4 bar)
Options

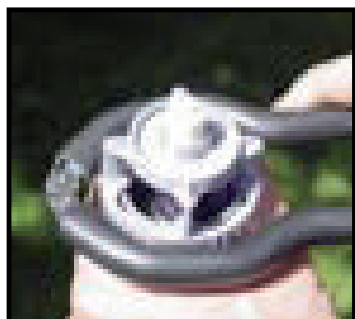
FNPT Inlet,
10406-xxx
Acme Inlet,
10407-xxx



High Angle Road Guard (Orange) **9879**



Low Angle Road Guard (Red) **9590-030**



R2000(WF) Cap Removal Tool **10689**



R2000(WF) Flush Tool **9210**

MISC.

R10 Stream Splitter (Standard) **10404**; (Wide) **10593**

R2000 Stream Splitter **9397**

R2000 Plate Removal Tool **9620**

R2000 Deflector Cap **10649**

R2000 Protector (Metal "Coyote Guard") **10398**

Heavy Duty Male Acme x 1/2 MNPT **10619**

R2000 Security Lock: Security Screw Removal Tool **9347**;

Security Screw **9329**, Internal Locking Device **10045**, PVC Adapter

Auckland NZ
PH: (09) 919 7600
FAX: (09) 919 7604

Distributed by: **aquaspec**

www.aquaspec.co.nz

0800 353 966

Christchurch NZ
PH: (03) 968 3230
FAX: (03) 968 3231

WARRANTY AND DISCLAIMER

Nelson Rotator® Sprinklers, 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.

Rotator® is a registered trademark of Nelson Irrigation Corporation. Products in this brochure may be covered by one or more of the following U.S. Patent Numbers 4,796,811, 5,058,806, 5,297,737, 5,372,307, 5,823,580, 5,875,815, DES312,865, RE33,823 and other U.S. Patents pending or corresponding issued or pending foreign patents.



NELSON IRRIGATION CORPORATION

848 Airport Rd.
Walla Walla, WA 99362 U.S.A.
Tel: 509.525.7660
info@nelsonirrigation.com



**NELSON IRRIGATION CORPORATION
OF AUSTRALIA PTY LTD**

35 Sudbury Street, Darra QLD 4074
Tel: +61 7 3715 8555
info@nelsonirrigation.com.au

**SAVE WATER, SAVE ENERGY AND
DO A BETTER JOB OF IRRIGATING.
WWW.NELSONIRRIGATION.COM**

Auckland NZ
PH: (09) 919 7600
FAX: (09) 919 7604

Distributed
by: **aquaspec**
www.aquaspec.co.nz 0800 353 966

Christchurch NZ
PH: (03) 968 3230
FAX: (03) 968 3231