

R33 & R33LP



ROTATOR[®] SPRINKLERS

Direct Replacements for 3/4" Brass Sprinklers



PROVEN PERFORMANCE

R33 (Gray Motor)

Pressure: **40-65 PSI** (2.75-4.5 BAR)
Flow Range: **3.64-9.60 GPM** (825-1935 LPH)
Nozzles: **9/64", 5/32", 11/64", 3/16"**
(3.6 mm, 4.0 mm, 4.4 mm, 4.8 mm)

R33LP (Purple Motor) for Low Pressure

Pressure: **25-50 PSI** (1.75-3.5 BAR)
Flow Range: **2.88-8.45 GPM** (659-1935 LPH)
Nozzles: **9/64", 5/32", 11/64", 3/16", 13/64"**
(3.6 mm, 4.0 mm, 4.4 mm, 4.8 mm, 5.2 mm)



FIELD-PROVEN TECHNOLOGY



ROTATOR® TECHNOLOGY OBSOLETES THE IMPACT SPRINKLER



A new standard of PERFORMANCE and VALUE from a brand recognized and trusted for high quality irrigation products — Nelson introduces the new R33 & R33LP Rotator sprinklers.

- ◆ HIGH UNIFORMITY
- ◆ EASY TO CLEAN
- ◆ LONG WEAR LIFE
- ◆ NO RISER VIBRATION
- ◆ EASY TO REPAIR
- ◆ NO SEALS UNDER PRESSURE



The Road Guard (#11363) easily snaps on to convert the R33 and R33LP to part-circle operation.



The R33 Rotator® from Nelson Irrigation is an innovation that saves money, saves time and performs better than the 3/4" brass impact sprinklers it's designed to obsolete.

Created as an upgrade to replace the Nelson F33 brass sprinkler, the R33 uses Nelson's proven Rotator Technology® to provide longer throw distance, fight the wind better and deliver uniform coverage. With new advancements in speed control, our breakthrough design allows the sprinkler to move from a slow mode back to a fast mode throughout its rotation. By reducing the speed of rotation intermittently, the R33 produces a wind-fighting pattern with maximum throw distance. The fast mode also assists in filling out the water pattern for greater uniformity.

While brass sprinklers are prone to damage, clogging and theft, the R33 is easy to clean, easy to repair and costs less to replace. Without a drive arm, the sprinkler creates no riser vibration. It also has a long wear life because no seals or bearings are exposed to water pressure.

The R33 is also available in a low pressure model (the R33LP). Both are suitable for permanent-set, portable-pipe and wheel-line applications for all type of crops, including forage crops, vegetables, grain and pastures, as well as tree and vine crops.

R33

Learn more about the R33 Rotator and other innovative products from Nelson Irrigation. Call 1.509.525.7660 or visit www.nelsonirrigation.com.



R33 PARTS



Quick, snap-apart design allows for easy nozzle cleaning.

- 1 - Cap Assembly
- 2 - Motor — R33 (gray), R33LP (purple)
- 3 - Cap
- 4 - Diffuser
- 5 - Plate
- 6 - Body
- 7 - 33TN Nozzle (color coded)
- 8 - Quick Change Adapter (3/4" MNPT)



The Flush Tool (Short #11161-001 and Long #11161-002) can be used to disconnect and reconnect the sprinkler for nozzle cleaning while under pressure without getting the irrigator soaked.

COMBINED R33 / R33LP PERFORMANCE (U.S. UNITS)

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
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

Radius in feet. Measured indoors in no wind with plates mounted 18 inches above collection cups. The absence of data for a particular model/plate/nozzle combination indicates the pressure is outside the recommended range.

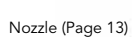
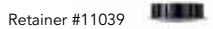
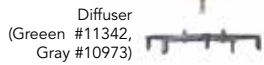
COMBINED R33 / R33LP PERFORMANCE (METRIC UNITS)

Plate/Nozzle Options and Flow Performance in Liters Per Hour

Plate Options	Recommended Nozzles	Model & Radius (m)	BAR							
			1.75	2.0	2.5	2.75	3.0	3.5	4.0	4.5
GOLD 18 #10974-018	Gold #18 #11078-018 (9/64")	R33LP R. 11.3-12.8	659	703	786	825	862	931	-	-
		R33 R. 13.1-13.4	-	-	-	825	862	931	996	1058
BROWN 20 #10974-020	Brown #20 #11078-020 (5/32")	R33LP R. 11.6-13.4	805	859	961	1009	1054	1143	-	-
		R33 R. 13.7-14.3	-	-	-	1009	1054	1143	1217	1293
GRAY 22 #10974-022	Gray #22 #11078-022 (11/64")	R33LP R. 11.9-13.4	970	1036	1160	1218	1272	1375	-	-
		R33 R. 14.0-14.6	-	-	-	1218	1272	1375	1468	1554
GREEN 24 #10974-024	Green #24 #11078-024 (3/16")	R33LP R. 12.5-14.0	1144	1227	1378	1447	1513	1639	-	-
		R33 R. 14.9-15.2	-	-	-	1447	1513	1639	1753	1862
MAROON 26 #10974-026	Maroon #26 #11078-026 (13/64")	R33LP R. 13.1-14.3	1350	1449	1630	1712	1786	1933	-	-
		R33 (Prelim.) R. 14.9-15.5	-	-	-	1712	1786	1933	2065	2184

Radius in meters. Measured indoors in no wind with plates mounted .46 meters above collection cups. The absence of data for a particular model/plate/nozzle combination indicates the pressure is outside the recommended range.

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



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WARRANTY AND DISCLAIMER:

Nelson R33 Rotators are warranted for one year from the date of the 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.

This product may be covered by one or more of the following U.S. Patent Numbers 4796811, RE33823, DES312865, 5372307, 5971297, 7584904 and other U.S. Patents pending or corresponding issued or pending foreign patents.