

R33 & R33LP

MADE
IN THE
U.S.A.

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: **3.64-8.18 GPM** (825-1862 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)



 **NELSON**

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 break-through 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)

			R33LP PERFORMANCE RANGE 25-50 PSI								R33 PERFORMANCE RANGE 40-65 PSI			
			Pressure in PSI											
Plate	Nozzle		25	30	35	40	45	50	55	60	65			
Gold 18	9/64"	GPM	2.88	3.15	3.40	3.64	3.86	4.07	4.27	4.46	4.65			
		RAD (ft.)	37	38	40	42	43	42	44	42	44	44	44	
Brown 20	5/32"	GPM	3.52	3.85	4.16	4.45	4.72	5.00	5.22	5.45	5.68			
		RAD (ft.)	38	40	42	43	45	43	45	44	45	46	47	46
Gray 22	11/64"	GPM	4.24	4.64	5.02	5.37	5.70	6.01	6.30	6.57	6.83			
		RAD (ft.)	39	41	44	44	46	44	47	44	47	47	48	48
Green 24	3/16"	GPM	5.00	5.50	5.96	6.38	6.78	7.16	7.52	7.85	8.18			
		RAD (ft.)	41	43	45	46	49	46	49	46	50	50	50	50
Maroon 26	13/64"	GPM	5.90	6.50	7.05	7.55	8.00	8.45	-	-	-			
		RAD (ft.)	43	45	46	47	-	47	-	47	-	-	-	-

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)

			R33LP PERFORMANCE RANGE 1.75-3.50 BAR										R33 PERFORMANCE RANGE 2.75-4.5 BAR			
			Pressure in BAR													
Plate	Nozzle		1.75	2	2.25	2.5	2.75	3	3.25	3.5	3.75	4	4.25	4.5		
Gold 18	3.6 mm	LPH	659	703	745	786	825	862	897	931	964	996	1027	1058		
		RAD (m)	11.0	11.5	11.9	12.3	12.8 13.4	12.8 13.6	12.9 13.7	13.0 13.7	13.7	14.0	14.0	13.7		
Brown 20	4.0 mm	LPH	805	859	911	961	1009	1054	1099	1143	1179	1217	1255	1293		
		RAD (m)	11.6	12.1	12.5	12.9	13.1 14.0	13.2 14.2	13.3 14.5	13.5 14.6	14.7	14.6	14.5	14.3		
Gray 22	4.4 mm	LPH	970	1036	1099	1160	1218	1272	1325	1375	1423	1468	1511	1554		
		RAD (m)	11.9	12.4	13.1	13.4	13.4 14.6	13.4 14.8	13.4 15.1	13.5 15.2	15.0	15.0	14.8	14.6		
Green 24	4.8 mm	LPH	1144	1227	1304	1378	1447	1513	1577	1639	1698	1753	1807	1862		
		RAD (m)	12.5	13.0	13.4	13.8	14.0 14.9	14.0 15.2	14.0 15.4	14.1 15.5	15.5	15.5	15.5	15.2		
Maroon 26	5.2 mm	LPH	1350	1449	1542	1630	1712	1786	1860	1935	-	-	-	-		
		RAD (m)	13.0	13.6	13.6	13.8	14.0 -	14.3 -	14.3 -	14.3 -	-	-	-	-		

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.



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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.

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