

ROTATOR® Model(s)	Nozzle Series	Nozzle Size	Nozzle Color	Nozzle Diameter in Inches	Nozzle Diameter in MM	2 Times Smaller in Inches	2 Times Smaller in MM	3 Times Smaller in Inches	3 Times Smaller in MM	5 Times Smaller in Inches	5 Times Smaller in MM
R5	R5	#30	Black	0.029	0.72	0.014	0.36	0.010	0.24	0.006	0.14
		#35	Orange	0.033	0.85	0.017	0.42	0.011	0.28	0.007	0.17
		#40	Blue	0.038	0.97	0.019	0.48	0.013	0.32	0.008	0.19
		#45	Purple	0.043	1.09	0.021	0.54	0.014	0.36	0.009	0.22
		#50	Green	0.047	1.20	0.024	0.60	0.016	0.40	0.009	0.24
		#55	Yellow	0.052	1.33	0.026	0.66	0.017	0.44	0.010	0.27
R10	2TN	#60	Red	0.057	1.45	0.028	0.72	0.019	0.48	0.011	0.29
		#40	Light Blue	0.040	1.02	0.020	0.51	0.013	0.34	0.008	0.20
		#45	Light Purple	0.045	1.14	0.023	0.57	0.015	0.38	0.009	0.23
		#50	Dark Green	0.050	1.27	0.025	0.64	0.017	0.42	0.010	0.25
R10T & R2000	2TN	#55	Light Yellow	0.055	1.40	0.028	0.70	0.018	0.47	0.011	0.28
		#60	Light Red	0.060	1.52	0.030	0.76	0.020	0.51	0.012	0.30
R10T, R2000, R2000WF & R2000LP	2TN	#8.3	Gray	0.065	1.65	0.033	0.83	0.022	0.55	0.013	0.33
		#9	White	0.070	1.79	0.035	0.89	0.023	0.60	0.014	0.36
R2000, R2000WF, & R2000LP	2TN	#10 (5/64)	Dark Blue	0.078	1.98	0.039	0.99	0.026	0.66	0.016	0.40
		#11 (11/128)	Orange	0.086	2.18	0.043	1.09	0.029	0.73	0.017	0.44
		#12 (3/32)	Purple	0.094	2.39	0.047	1.19	0.031	0.80	0.019	0.48
		#13 (13/128)	Yellow	0.102	2.59	0.05	1.30	0.03	0.86	0.02	0.52
R2000WF, R2000LP & R33	33TN	#14 (7/64)	Green	0.109	2.77	0.05	1.38	0.04	0.92	0.02	0.55
		#15 (15/128)	Tan	0.117	2.97	0.06	1.49	0.04	0.99	0.02	0.59
		#16 (1/8)	Red	0.125	3.18	0.06	1.59	0.04	1.06	0.03	0.64
		#17 (17/128)	Turquoise	0.133	3.37	0.07	1.69	0.04	1.12	0.03	0.67
R2000WF, R2000LP & R33	33TN	9/64 or #18	Gold	0.141	3.57	0.07	1.79	0.05	1.19	0.03	0.71
		5/32 or #20	Brown	0.156	3.97	0.08	1.98	0.05	1.32	0.03	0.79
R33	33TN	11/64 or #22	Gray	0.172	4.37	0.09	2.18	0.06	1.46	0.03	0.87
		3/16 or #24	Green	0.188	4.76	0.09	2.38	0.06	1.59	0.04	0.95
		13/64 or #26	Maroon	0.203	5.16	0.10	2.58	0.07	1.72	0.04	1.03
		7/32 or #28		0.219	5.56	0.11	2.78	0.07	1.85	0.04	1.11

Conversion Table

U.S. MESH	INCHES	MICRONS
3	0.265	6730
4	0.187	4760
5	0.157	4000
6	0.132	3360
7	0.111	2830
8	0.094	2380
10	0.079	2000
12	0.066	1680
14	0.056	1410
16	0.047	1190
18	0.039	1000
20	0.033	841
25	0.028	707
30	0.023	595
35	0.020	500
40	0.017	400
45	0.014	354
50	0.012	297
60	0.010	250
70	0.008	210
80	0.007	177
100	0.006	149
120	0.005	125
140	0.004	105
170	0.004	88
200	0.003	74

The nozzle information above is provided to assist in making filtration decisions for ROTATOR® systems. Filtration needs should be addressed on every ROTATOR® system. After gaining a complete understanding of the contaminant load of the water source, consult with local irrigation system design experts, irrigators, and growers to determine the degree of filtration required. In general Rotator systems should have filtration to a level that is from 2 to 5 times smaller than the Diameter of the nozzle. Smaller nozzles require higher levels of filtration. Because the R5 Rotator nozzles are more difficult to unplug, Nelson Irrigation recommends 75 mesh (or 5 time smaller than the nozzle diameter) filtration for the standard R5 Rotator. For flow control nozzles select a standard nozzle size with the same flow rate at a pressure that is near the higher side of the recommended pressure range.

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