







R10LP/R10 0.3 - 1.34 GPM 61 - 311 LPH



R10 Turbo 0.6 - 2.1 GPM 140 - 469 LPH



R2000 0.7 - 3.5 GPM 150 - 792 LPH



R2000LP/WF 0.9 - 5.7 GPM 191 - 1295 LPH

The R10LP/R10 and R10 Turbo are part of the Nelson Rotator® family of sprinklers.

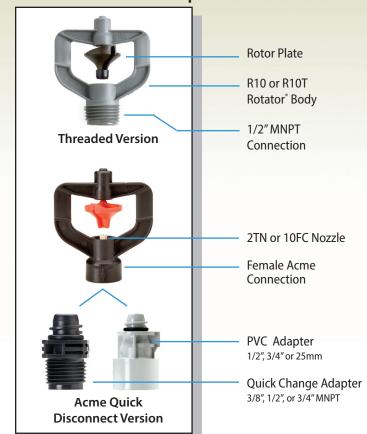
MINIOTION IN CORPORATION



No other



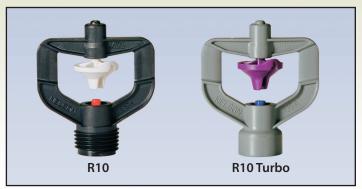
R10 & R10 Turbo Components



agricultural sprinkler matches the dependability

Ultra Reliable Low-Volume Sprinklers

Filling the need for small, low-volume sprinklers that perform reliably in the mid-range between micro and a regular size sprinkler, Nelson R10 and R10 Turbo (R10T) Rotators are right on target. Incorporating the same proven, patented drive principle and advanced sprinkler technology used in other Nelson Rotators, the R10 and R10T are making their mark in a wide variety of orchard and field irrigation applications. A new low pressure version, the R10LP with the Green Plate, became available in the spring of 2024.



A special motor (brake) design in the R10 Turbo Rotators has more resistance to maximize radius, reliability, and uniformity.

Nelson 2TN Nozzle

- · long wear and high accuracy
- · color-coded for easy identification
- · easy change snap in or out design



For durability, dependability and doing a better job of uniform water application, the choice is simple. Nelson R10 and R10 Turbo.



and durability of the R10 and R10 Turbo.

APPLICATIONS



Under canopy irrigation for tree crops.



For irrigation of field crops. The R10T Rotator is used as part of a portable irrigation system that utilizes polyethylene pipe for laterals in combination with the Nelson FT5 feedtube assembly.



Nelson Low Angle Road Guard (Red)



Nelson High Angle Road Guard (Orange)



Road guards easily snap on to convert the R10 and R10 Turbo Rotators to part-circle operation (irrigates 200°). Cutting guides are provided at 10° increments to increase the amount of arc irrigated.



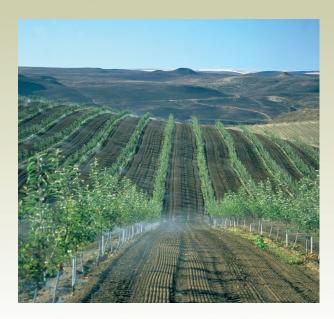
Nelson R10 Stream Splitters





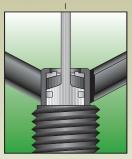
Choose from the Red, One-Sided Stream Splitter or the Blue, Two-Sided Stream Splitter depending on tree proximity. Simply snap on to the R10 Rotator and protect adjacent tree trunks by creating a small wedge shape in the wetted pattern. This helps keep tree trunks dry and reduces disease problems.

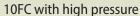
-- R 10 NOZZLE OPTIONS -- AND FLOW REGULATION

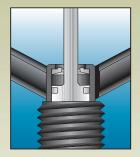


Why use Flow Control Nozzles?

- · constant flow over a range of pressure
 - · increases field uniformity
 - · low cost, high value



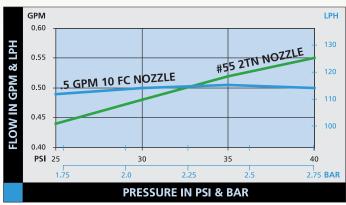




10FC with low pressure

Nelson 10FC Flow Control Nozzle

The 10FC nozzles illustrated above are operating at the same flow. As pressure increases, the flexible flow washers reduce the orifice opening size and emit a constant flow over a wide range of pressure. They assure uniform application of water throughout your crop.



10FC nozzle and 2TN nozzle flow rates with changes in pressure

- Flow control nozzles (10FC) are an excellent low cost option when system pressure ranges between 25-50 PSI (1.7-3.4 BAR). When system pressure differences are more extreme the Nelson Mini Regulator or Mini Regulator Drain Check are ideal products. See page 8.

NEW! Low Pressure R10LP Plate/Nozzle Options and Flow Performance in GPM and LPH

ĺ	Plate			PSI											BAR						
		Plate Options	Recommended	20		22		25		28		30		1.5		1.75		7	2		
	Series		Nozzles	Flow	Rad. (ft)	Flow	Rad. (m)	Flow	Rad. (m)	Flow	Rad. (m)										
	P6		Dk. Blue #78		_	0.83	23	0.88	23	0.93	24	0.97	25	187	7.0	201	7.0	217	7.6		
		P6 15° Green Rad. 22-25′ (6.7-7.6 m)	Orange #86	0.95	23	1.00	23	1.07	24	1.13	24	1.17	25	225	7.0	245	7.3	261	7.6		
		Stream Ht. 30-45" (76-114 cm)	Purple #94	1.14	22	1.19	23	1.27	24	1.34	24			269	6.7	290	7.3	311	7.3		

R10 Plate/Nozzle Options and Flow Performance in GPM and LPH

Plate	Plate	Recommended	PSI							BAR					
Series	Options	Nozzles	25	30	35	40	45	50	1.75	2	2.25	2.5	2.75	3	3.25
P2	P2 9° Red Radius 18-20' (5.5-6.1 m) Stream Ht.14-23" (36-58 cm)	Lt. Blue #40 Lt. Purple #45 Dk. Green #50	.29	.32	.28 .35 .43	.30 .37 .46	.32 .39 .48	.34 .42	66.4 82.3	71.3 87.2	61.4 76.3 93.4	64.7 80.6 99.4	68.0 83.9 104	71.3 87.2 108	74.6 91.5 112
		.35 10FC (79 LPH) .43 10FC (98 LPH)	Within the recommended pressure range of 25-50 PSI (1.75-3.25 BAR), the .35 10 FC flow control nozzle is flow regulating within a flow range of no more than 0% greater and 10% less than the nominal flow of .35 GPM (79.5 LPH).												
P4	P4 9° White Radius 18-22' (5.5-6.7 m) Stream Ht. 14-24" (36-61 cm) P4 15° Orange Radius: 23-25' (7.0-7.6 m) Stream Ht. 40-50" (102-127 cm)	Dk. Green #50 Lt. Yellow #55 Lt. Red #60	44 .51	 .48 .56	.43 .52 .61	.46 .55	.48 .59 .69	.51 .62 .73	— 101 117	— 107 125	93.4 114 133	99.4 120 141	104 125 147	108 131 154	112 137 161
		.50 10FC (114 LPH)												control no: GPM (114	

R10 Turbo Plate/Nozzle Options and Flow Performance in GPM and LPH

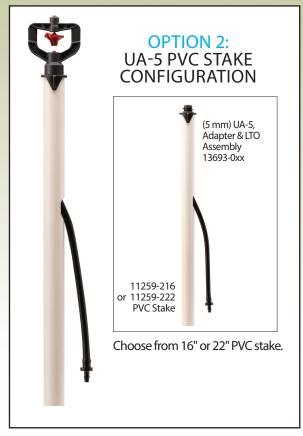
Plate Plate		Recommended	PSI							BAR								
Series	Options	Nozzles	25	30	35	40	45	50	1.75	2	2.25	2.5	2.75	3	3.5			
Р6	P6 9° Blue R.20-22′ (6.1-6.7 m) Stream Ht. 17-30″ (43-76 cm)	Gray #65	.61	.67	.72	.77	.82	.86	140	150	158	166	175	183	197			
		White #70	.70	.77	.83	.89	.94	1.00	160	172	182	192	202	210	229			
		Dk. Blue #78	.88	.97	1.05	1.12	1.19	1.25	201	217	230	242	254	266	286			
	P6 15° Purple	.75 10FC (170 LPH)	Within the recommended pressure range of 25 to 50 PSI (1.75-3.5 BAR), the .75 10 FC flow control nozzle is flow regulating within a flow range of no more than 0% greater and 10% less than the nominal flow of .75 GPM (170 LPH).															
	R. 25-26' (7.6-7.9 m) Stream Ht. 33-49" (84-124 cm)	1.0 10FC (227 LPH)	Within the recommended pressure range of 30 to 50 PSI (2-3.5 BAR), the 1.0 10 FC flow control nozzle is flow regulating within a flow range of no more than 0% greater and 10% less than the nominal flow of 1.0 GPM (227 LPH).										ating					
P8	P8 15° Gold R. 26-30′ (7.9-9.1 m) Stream Ht. 38-58″ (97-147 cm) P8 24° Brown	Orange #86	1.07	1.17	1.27	1.36	1.45	1.53	245	261	278	294	308	323	350			
		Purple #94	1.27	1.39	1.50	1.61	1.70	1.80	290	311	329	347	365	380	412			
		Yellow #102	1.50	1.64	1.78	1.90	2.02	2.13	343	366	389	411	431	451	487			
		1.25 10FC (284 LPH)	Within the recommended pressure range of 30 to 50 PSI (2-3.5 BAR), the 1.25 10 FC flow control nozzle is flow regulating within a flow range of no more than 3.5% greater and 8% less than the nominal flow of 1.25 GPM (284 LPH).										ating					
	R. 27-33' (8.2-10.1 m) Stream Ht. 64-99"	1.5 10 FC (341 LPH)	Within the recommended pressure range of 30 to 50 PSI (2-3.5 BAR), the 1.5 10 FC flow control nozzle is flow regulating within a flow range of no more than 3.5% greater and 8% less than the nominal flow of 1.5 GPM (341 LPH).									ating						
	(163-251 cm)	Dk. Blue #78 for use with P8 24° plate only	_	.97	1.05	1.12	1.19	1.25	_	217	230	242	254	266	286			
		1.0 10FC (227 LPH) for use with P8 24° plate only							PSI (2-3.5 I 10% less t					flow regul LPH).	ating			

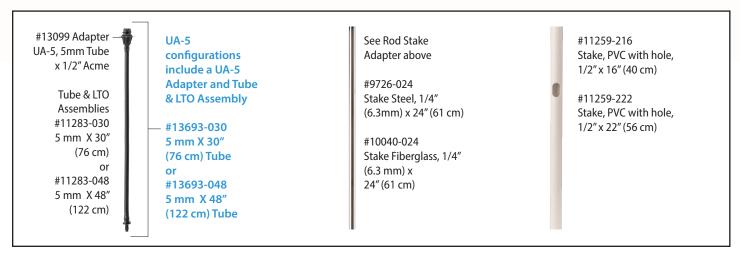
The performance data in this section has been recorded under ideal test conditions and may be adversely affected by poor hydraulic entrance conditions, slope, riser tilt, temperature, wind or other factors. Always be sure to use the nozzle size that is recommended for the plate. The operating pressure should be within the recommended range. Only the nozzle and plate combinations grouped together in the above chart are recommended. The absence of flow data on the above chart indicates the pressure is outside the recommended range.

UA-5 (5mm) UNIVERSAL MOUNTING CONFIGURATIONS

SELECT (UA-5 CONFIGURED ASSEMBLIES) OR (PARTS) + (ROD STAKE ADPATER & STAKE) OR (PVC STAKE)



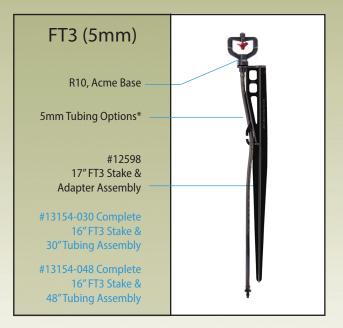




For 5 mm options use Punch Tool #9349 or Drill Tool #9835-003.



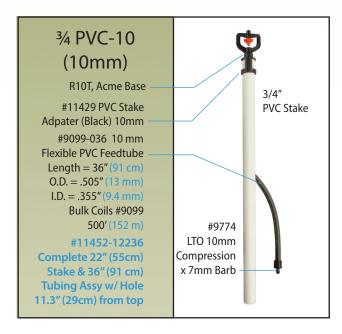






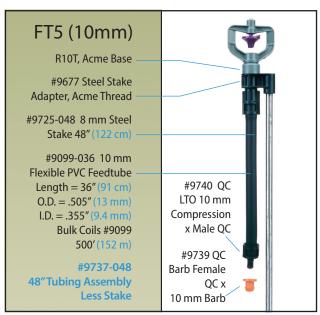
10 mm Feedtube Assemblies

The ¾ PVC-10, FT4 and FT5 Feedtube Assemblies all utilize 10 mm feedtube and connect R10 & R10 Turbo Rotators to polyethylene laterals. The ¾ PVC-10 is a heavy-duty option that prevents damage caused by equipment, workers and animals chewing on tubing. The FT4 is for permanent connection while the FT5 has a quick connect and disconnect feature for portable lateral systems. Both assemblies are mounted with steel stakes. With the addition of collar #9195 to FT4 or FT5, they can be converted to mount on a 3/4″ PVC stake.





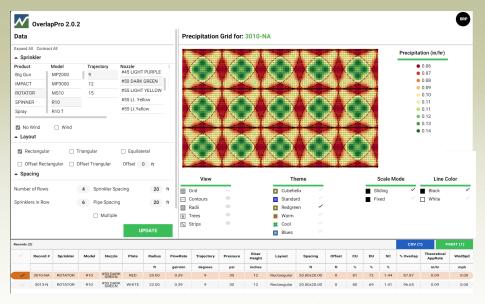




OverlapPro®

OverlapPro is an online software program (www.overlappro.com) capable of analyzing the theoretical uniformity of permanent or solid set sprinkler spacing. Select a specific sprinkler model configuration and spacing criteria, and the software will calculate the following:

- · Precipitation Rate
- Christiansen's Coefficient of Uniformity (CU)
- Distribution Uniformity (DU)
- Scheduling Coefficient (SC)



OverlapPro allows you to graphically depict and chart theoretical performance for comparative purposes.



Mini Regulator (MR), Mini Regulator Drain Check (MRDC) and Mini Drain Check (MDC)

The Mini Regulator and Mini Regulator Drain Check increase the potential to conserve water when the pressure is maintained at or above the nominal rating of the regulator. Every sprinkler in a system delivers exactly the same flow, droplet size, and distribution uniformity. The MR and MRDC are available in 25, 30, 35, 40, 45, or 50 PSI (1.7, 2.0, 2.4, 2.8, 3.1 or 3.4 BAR) nominal pressures.

The Drain Check feature (available in the MRDC and MDC) eliminates sprinkler drizzle during shut down and start up. The Mini Drain Check is available in 20 and 35 PSI (1.4-2.4 BAR) options.

MR, MRDC & MDC Connection Options								
Inlet	Outlet							
Female Acme, ½" MNPT, ½" FNPT	Male Acme, ½" MNPT							









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