



834S/854S SERIES GOLF ROTORS



The 834S/854S is Toro's full-circle golf sprinkler series. The dual trajectory main nozzle provides exceptional nozzle performance at the 25° standard angle position and great performance in windy applications at the 15° low angle position. And the consistency of the constant velocity full circle drive ensures even water application across the coverage area every time you water.

Features & Benefits

Industries Largest Nozzle Selection

Nozzles from 52' to 100'. Color coded for easy flow and radius identification and threaded from the front to simplify servicing.

20,000 Volt Lightning Rating

Spike-Guard™ solenoid virtually eliminates the need for replacements in high lightning areas. Draws half the amperage of traditional solenoids so you can run twice as many sprinklers simultaneously, reduce the cost of wire during initial installation or increase the distance from controller to sprinkler.

Constant Velocity Full Circle Drive

Ensures consistent rotation speeds when matched with station run times for even water application across the coverage area every time you water.

Radius Reduction Screw for Fine Tuning

In combination with main nozzle sizing and trajectory adjustment the radius reduction screw can effectively reduce the sprinkler throw down to 30'.



Dual Trajectory - 25° or 15°
Provides two selections for the main nozzle trajectory; the 25 degree setting provides maximum distance of throw and the 15 degree setting provides improved wind performance, radius reduction and obstacle avoidance.



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834S Series Performance Chart—25°

Front Nozzle Positions	Nozzle Set 31 (Yellow)		Nozzle Set 32 (Blue)		Nozzle Set 33 (Brown)		Nozzle Set 34 (Orange)		Nozzle Set 35 (Green)		Nozzle Set 36 (Gray)		Nozzle Set 37 (Black)		
	102-0725		102-7001		102-0727		102-7002		102-6908		102-0730		102-4261		
	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-6883
Back Nozzle Positions															
	Yellow	Blue	Yellow	Orange	Yellow	Red	Yellow	Beige	Yellow	Beige	Yellow	Red	Yellow	Gray	
	102-6937	102-2925	102-6937	102-2926	102-6937	102-2928	102-6937	102-2929	102-6937	102-2929	102-6937	102-6944	102-6937	102-6945	
	PSI	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM
50	57	13.0	58	15.5	64	21.9	68	24.4	—	—	—	—	—	—	
65	58	14.6	60	18.0	68	24.4	72	28.1	76	32.2	—	—	—	—	
80	60	16.2	63	20.5	72	26.9	76	31.1	80	35.6	83	38.2	85	41.5	
100	62	17.9	66	23.4	75	29.8	79	34.9	84	49.3	88	43.4	91	46.9	

834S Series Performance Chart—15°

PSI	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM
50	52	12.9	53	15.6	60	21.7	62	25.5	—	—	—	—	—	—
65	53	14.4	54	17.1	61	24.2	64	28.0	67	32.1	—	—	—	—
80	56	16.0	57	19.0	65	26.6	69	31.0	73	35.5	76	38.0	77	41.3
100	57	17.5	59	20.5	67	29.5	71	33.9	75	38.4	80	43.1	81	46.8














































Not recommended at these pressures. Radius shown in feet. Toro recommends the use of a 1 1/4" swing joint at flows over 25-GPM (95-LPM). Sprinkler radius data collected in Toro's zero wind test facility per ASAE standard S398.1.

Actual site conditions must be considered when selecting the appropriate nozzle. All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.

834S Nozzle Apex

Pressure	Nozzle	Apex at 15°	Apex at 25°
65 PSI	31	6' @ 51'	13' @ 54'
	32	6' @ 51'	11' @ 64'
	33	7' @ 59'	13' @ 68'
	34	8' @ 63'	15' @ 74'
	35	9' @ 66'	15' @ 76'
80 PSI	36	8' @ 75'	18' @ 83'
	37	9' @ 74'	19' @ 82'

854S Series Performance Chart—25°

Front Nozzle Positions	Nozzle Set 51  (Yellow)		Nozzle Set 52  (Blue)		Nozzle Set 53  (Brown)		Nozzle Set 54  (Orange)		Nozzle Set 55  (Green)		Nozzle Set 56  (Gray)		Nozzle Set 57  (Black)		Nozzle Set 58  (Red)		Nozzle Set 59  (Beige)			
	102-0725		102-7001		102-0727		102-7002		102-6908		102-0730		102-4261		102-4260		102-4259			
																				
	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Brown	Red Plug	Brown	Red Plug	Red Plug		
102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-6883	102-4335	102-6883	102-4335	102-4335		
Back Nozzle Positions																				
	Yellow	Blue	Yellow	Orange	Yellow	Red	Yellow	Beige	Yellow	Beige	Yellow	Red	Yellow	Gray	Yellow	Gray	Yellow	Gray		
	102-6937	102-2925	102-6937	102-2926	102-6937	102-2928	102-6937	102-2929	102-6937	102-2929	102-6937	102-2929	102-6937	102-6944	102-6937	102-6945	102-6937	102-6945	102-6937	102-6945
PSI	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM
50	58	13.2	59	15.7	64	22.0	70	26.2	—	—	—	—	—	—	—	—	—	—	—	—
65	60	14.8	61	17.5	68	24.8	74	29.3	79	34.2	—	—	—	—	—	—	—	—	—	—
80	61	16.4	64	20.0	72	27.6	78	32.6	83	38.0	85	40.7	87	44.9	91	50.2	96	55.6	99	61.8
100	63	18.1	67	23.6	75	30.4	81	36.7	87	42.5	90	45.8	93	50.2	95	55.4	99	61.8	99	61.8

854S Series Performance Chart—15°

PSI	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM
50	52	13.2	53	15.6	61	22.0	65	26.0	—	—	—	—	—	—	—	—	—	—	—	—
65	53	14.8	54	17.1	63	24.8	67	29.2	69	34.1	—	—	—	—	—	—	—	—	—	—
80	56	16.4	58	19.0	68	27.6	72	32.5	75	37.8	79	40.4	81	44.6	85	49.9	87	55.3	94	61.5
100	58	18.1	60	20.5	71	30.4	75	36.4	79	42.3	84	45.5	87	49.9	89	55.1	94	61.5	94	61.5
Stator	102-6929 Blue										102-1940 White						102-1941 White			
Conversions	854S-5154										854S-5557						854S-59			

*Not recommended at these pressures. Radius shown in feet.
Toro recommends the use of a 1¼" swing joint at flows over 25-GPM (95-LPM). Sprinkler radius data collected in Toro's zero wind test facility per ASAE standard S398.1.
Actual site conditions must be considered when selecting the appropriate nozzle.
All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.*

854S Nozzle Apex

Pressure	Nozzle	Apex at 15°	Apex at 25°
65 PSI	51	6' @ 51'	13' @ 54'
	52	6' @ 51'	11' @ 64'
	53	7' @ 59'	13' @ 68'
	54	8' @ 63'	15' @ 74'
	55	9' @ 66'	15' @ 76'
80 PSI	56	8' @ 75'	18' @ 83'
	57	9' @ 74'	19' @ 82'
	58	10' @ 82'	18' @ 87'
	59	11' @ 81'	21' @ 91'



834S/854S SERIES GOLF ROTORS

834S Conversion Assemblies

Models	Description
• 834S-3134	834S w/31-34 Nozzles (33 Nozzle Installed)
• 834S-3537	834S w/35-37 Nozzles (35 Nozzle Installed)
• 834S-3134E	834S w/31-34 Nozzles (33 Nozzle Installed), Effluent
• 834S-3537E	834S w/35-37 Nozzles (35 Nozzle Installed), Effluent



854S Conversion Assemblies

Models	Description
• 854S-5154	854S w/51-54 Nozzles (53 Nozzle Installed)
• 854S-5558	854S w/55-58 Nozzles (55 Nozzle Installed)
• 854S-59	854S w/ 59 Nozzle installed
• 854S-5154E	854S w/51-54 Nozzles (53 Nozzle Installed), Effluent
• 854S-5558E	854S w/55-58 Nozzles (55 Nozzle Installed), Effluent
• 854S-59E	854S w/ 59 Nozzle installed, Effluent,
• 102-5011	690 Adapter allows you to upgrade any 690 with 854S conversions



Features

- Dual Trajectory adjustment on main nozzle - 25° or 15°
- Spike Guard™ solenoid with 20,000 volt lightning rating.
- Constant velocity full circle drive
- Radius reduction screw can effectively reduce the sprinkler throw down to 30'

Operating Specifications

- Inlet:
 - 834S: 1" NPT or ACME
 - 854S: 1 1/2" NPT or ACME
- Radius:
 - 834S: 52' - 91'
 - 854S: 52' - 99'
- Flow Rate:
 - 834S: 13.0 - 46.9 GPM
 - 854S: 13.2 - 61.8 GPM
- Precipitation Rates:
 - 834S: Minimum - .33"/hr; Maximum - .55"/hr
 - 854S: Minimum - .33"/hr; Maximum - .61"/hr
- Pilot Valve: Selectable at 50, 65, 80 and 100 psi
- Recommended Operating Pressure Range: 65-100 psi (maximum-150 psi and minimum-40 psi)
- 24 V ac Electric Valve-in-Head Solenoid models:
 - Inrush: 60 Hz, 0.12 Amps
 - Holding: 60 Hz, 0.10 Amps
- Trajectory: 25° or 15°
- Check-O-Matic models maintains up to 37' elevation

Dimensions

- Body diameter:
 - 834S: 6 1/2"
 - 854S: 7 1/2"
- Body height:
 - 834S: 10"
 - 854S: 11 3/8"
- Weight:
 - 834S: 2.98 lbs.
 - 854S: 3.70 lbs.
- Pop-up height to nozzle: 3 1/4"

Warranty

- Three years
- Five years when installed with Toro Swing Joints

Specifying Information—834S & 854S

8X4S-XX-XXXXX						
Body Inlet	Arc	Body Threads	Valve Type	Nozzle	Pressure Regulation*	Optional
8X4S	4	X	X	XX	X	XX
3—1" 5—1 1/2"	4—Full Circle	0—NPT 4—ACME	1—Normally Open Hydraulic 2—Check-O-Matic 6—Electric	834S—31, 32, 33, 34, 35, 36, 37 854S—51, 52, 53, 54, 55, 56, 57, 58, 59	6—65 psi 8—80 psi 1—100 psi	E—Effluent DL—DC Latching Solenoid For GDC Systems N—Nickel-plated I—Integrated GDC Systems
Example: When specifying an 834S Series Sprinkler with NPT threads, #34 nozzle, an electric valve and pressure regulation at 65 psi you would specify: 834S-06-346						

* Electric models only. All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi. Note: Not all models available. Nickel-plated, corrosion-resistant models are available upon request.