



Toro 835S and 855S Series Sprinklers

52'-100' (16,8-29,6m) Radius

Toro's new models include the same great features of the 800S Series *plus* flexibility features to accommodate all your tough watering requirements.

Trujectory™ adjustment fine-tunes nozzle spray height and helps provide true head-to-head coverage.

- Trajectory adjustments from the top of the sprinkler allow for fine-tuning from 7° to 30° to compensate for windy conditions, and to spray under low-hanging obstructions, up bunker faces and along natural habitats.

Part- and full-circle in one sprinkler.

- Finally, one sprinkler can accommodate your part- and full-circle applications. No need to stock service parts for two different sprinklers.

Back nozzle capable.

- Provides the flexibility for fine-tuning any watering requirement. Perfect for inset part-circle sprinklers that need a little water on the back side.

Selectable pilot valve requires less service components.

- A selectable pilot valve accommodates multiple pressures on any given course.

835S Series

Specifications

- Radius: 52'-92' (15,8-28,0m)
- Flow rate: 13.7-45.3 GPM (51,9-171,5 LPM)
- Arc: Full- and part-circle in one
 - Full-circle: 360° unidirectional clockwise rotation
 - Part-circle: 40°-330°
- Trajectory: adjustable from 7°-30° in 1-degree increments
- Pilot valve: selectable at 50 psi, 65 psi, 80 psi and 100 psi
- Recommended operating pressure range: 65-100 psi (4,5-6,9 Bar)
- Max. pressure: 150 psi (10,3 Bar)
- Min. pressure: 40 psi (2,8 Bar)
- Activation options:
 - Electric Valve-In-Head
 - Normally Open Valve-In-Head
 - Check-O-Matic (maintains 37' [11,2 m] of elevation change)

- Electric Valve-In-Head solenoid: 24 V ac, 50/60 Hz
 - Inrush: 50 Hz: 0.17 Amps
60 Hz: 0.12 Amps
 - Holding: 50 Hz: 0.15 Amps
60 Hz: 0.10 Amps

Nozzle variations: seven (31, 32, 33, 34, 35, 36 and 37)

- Four in-line nozzles, rotating stream pattern
- Optional back nozzle
- Precipitation rates:
 - Minimum: .46"/hr.
 - Maximum: .63"/hr.
- Stator variations: 2
- Inlet size: 1" NPT, BSP or ACME
- Apex at 65 psi, 25°:
 - 31 nozzle: 15' 3" @ 46'
 - 32 nozzle: 16' 1" @ 49'
 - 33 nozzle: 16' 4" @ 51'
 - 34 nozzle: 16' 11" @ 53'
 - 35 nozzle: 17' 5" @ 56'
 - 36 nozzle: 18' 0" @ 58'
 - 37 nozzle: 18' 6" @ 60'



- Body height: 10"
- Body diameter: 6½"
- Pop-up to nozzle: 3¼"
- Weight: 2.98 lbs.

835S Series Performance Chart—U.S.

Base Pressure	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)	
	Blue	Gray	Red	Gray	Orange	Gray	Orange	Gray	Blue	Gray	Blue	Gray	Orange	Gray
psi	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM
50	52	13.7	61	17.1	64	20.2	69	27.4	—	—	—	—	—	—
65	54	15.5	63	20.5	66	22.9	74	30.0	76	32.4	80	34.0	—	—
80	57	17.0	67	22.6	70	25.3	77	33.2	79	35.8	84	37.5	86	40.8
100	59	18.9	72	25.2	74	28.2	80	37.0	84	39.9	88	42.5	92	45.3
Low-flow Stator							Medium-flow Stator					High-flow		

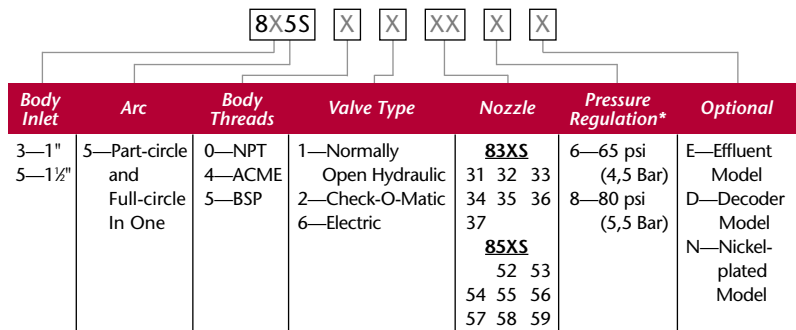
■ Not recommended at these pressures. Radius shown in feet. Toro recommends the use of a 1¼" (30mm) swing joint at flows over 25 GPM (95 LPM). Sprinkler radius of throw per ASAE standard S398.1. All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.

835S Series Performance Chart—Metric

Pressure	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)	
	Blue	Gray	Red	Gray	Orange	Gray	Orange	Gray	Blue	Gray	Blue	Gray	Orange	Gray
Bar	kPa	kg/cm²	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM
3,4	340	3,47	15,9	51,9	18,6	64,7	19,5	76,5	21,0	103,7	—	—	—	—
4,5	450	4,59	16,5	58,7	19,2	77,6	20,1	86,7	22,6	113,6	23,2	122,6	24,4	128,7
5,5	550	5,61	17,4	64,3	20,4	85,5	21,4	95,8	23,5	125,7	24,1	135,5	25,6	141,9
6,9	690	7,04	18,0	71,5	22,0	95,4	22,6	106,7	24,4	140,0	25,6	151,0	26,8	160,9
Low-flow Stator							Medium-flow Stator					High-flow		

■ Not recommended at these pressures. Radius shown in meters. Toro recommends the use of a 1¼" (30mm) swing joint at flows over 25 GPM (95 LPM). Sprinkler radius of throw per ASAE standard S398.1. ● = Main Nozzle ● = Intermediate Nozzle ■ = Inner Nozzle

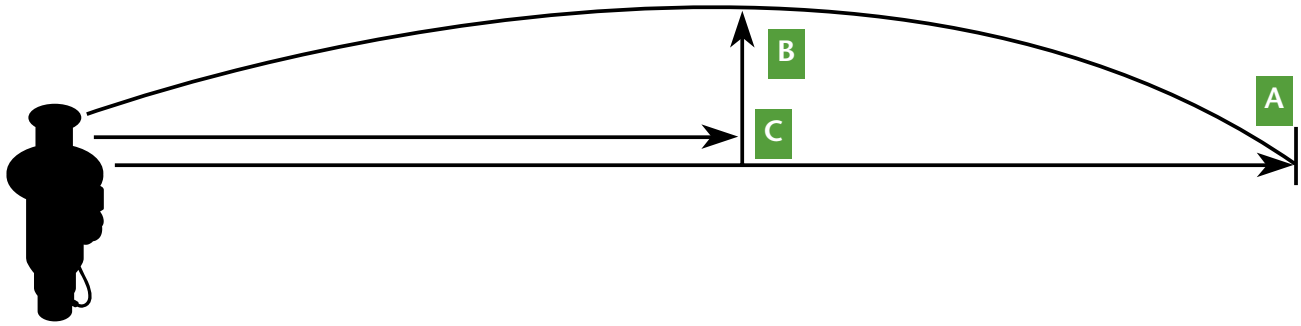
Specifying Information—835S & 855S



For Example:

When specifying an 835S Series Sprinkler with NPT threads, #34 nozzle, an electric valve and pressure regulation at 65 psi (4,5 Bar), you would specify: **835S-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.



835S Trajectory Performance Data

Nozzle/PSI/GPM	#31 nozzle @ 65 psi, 14.5 gpm						#32 nozzle @ 65 psi, 19.4 gpm						#33 nozzle @ 65 psi, 22.0 gpm					
Trajectory	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°
"A" Radius	46'	46'	50'	53'	56'	50'	46'	49'	51'	55'	58'	54'	54'	56'	59'	62'	67'	61'
"B" Spray Height	4'	4'	5'	8'	11'	13'	3'	4'	6'	9'	12'	15'	4'	5'	7'	9'	13'	15'
"C" Distance from Head	25'	25'	26'	33'	33'	33'	20'	24'	28'	34'	34'	34'	23'	28'	32'	34'	35'	35'

Nozzle/PSI/GPM	#34 nozzle @ 65 psi, 28.9 gpm						#35 nozzle @ 65 psi, 31.5 gpm						#36 nozzle @ 80 psi, 37.0 gpm					
Trajectory	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°
"A" Radius	58'	60'	63'	67'	73'	70'	59'	61'	64'	70'	74'	74'	64'	65'	73'	76'	80'	80'
"B" Spray Height	4'	4'	6'	11'	14'	17'	4'	5'	7'	11'	15'	17'	5'	7'	8'	13'	17'	22'
"C" Distance from Head	24'	26'	35'	39'	39'	39'	30'	32'	36'	43'	43'	43'	25'	38'	40'	44'	45'	45'

Nozzle/PSI/GPM	#37 nozzle @ 80 psi, 39.8 gpm					
Trajectory	7°	10°	15°	20°	25°	30°
"A" Radius	65'	68'	72'	77'	82'	80'
"B" Spray Height	4'	5'	8'	12'	18'	21'
"C" Distance from Head	30'	34'	39'	42'	46'	46'

855S Trajectory Performance Data

Nozzle/PSI/GPM	#51 nozzle @ 65 psi, 14.8 gpm						#52 nozzle @ 65 psi, 19.8 gpm						#53 nozzle @ 65 psi, 22.6 gpm					
Trajectory	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°
"A" Radius	46'	46'	51'	53'	56'	50'	49'	50'	51'	55'	61'	65'	54'	56'	59'	62'	67'	61'
"B" Spray Height	4'	4'	6'	10'	13'	15'	4'	4'	6'	9'	11'	13'	5'	6'	7'	9'	13'	15'
"C" Distance from Head	26'	27'	32'	38'	40'	41'	22'	26'	31'	35'	34'	30'	30'	33'	32'	35'	37'	37'

Nozzle/PSI/GPM	#54 nozzle @ 65 psi, 30.3 gpm						#55 nozzle @ 65 psi, 32.7 gpm						#56 nozzle @ 80 psi, 38.6 gpm					
Trajectory	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°
"A" Radius	58'	60'	63'	67'	73'	70'	59'	62'	66'	70'	76'	77'	72'	73'	75'	81'	83'	82'
"B" Spray Height	5'	6'	8'	10'	15'	17'	6'	6'	9'	11'	15'	17'	6'	7'	8'	13'	18'	22'
"C" Distance from Head	31'	34'	40'	41'	41'	42'	34'	36'	43'	45'	45'	45'	41'	44'	44'	44'	47'	47'

Nozzle/PSI/GPM	#57 nozzle @ 80 psi, 41.9 gpm						#58 nozzle @ 80 psi, 46.2 gpm						#59 nozzle @ 80 psi, 53.3 gpm					
Trajectory	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°
"A" Radius	68'	71'	74'	79'	82'	83'	75'	76'	82'	87'	87'	85'	74'	74'	81'	88'	91'	92'
"B" Spray Height	7'	8'	9'	12'	19'	23'	7'	7'	10'	13'	18'	21'	9'	8'	11'	14'	21'	25'
"C" Distance from Head	40'	40'	41'	41'	45'	45'	43'	43'	43'	45'	45'	45'	45'	45'	49'	49'	49'	49'

855S Series

Specifications

- Radius: 52'–100' (18,6–29,6m)
- Flow rate: 13.9–61.1 GPM (68,3–227,5 LPM)
- Arc: Full- and part-circle in one
 - Full-circle: 360° unidirectional clockwise rotation
 - Part-circle: 40°–330°
- Pilot valve: selectable at 50 psi, 65 psi, 80 psi and 100 psi
- Recommended operating pressure range: 65–100 psi (4,5–7 Bar)
- Maximum pressure: 150 psi (10,3 Bar)
- Minimum pressure: 40 psi (2,8 Bar)
- Activation options:
 - Electric Valve-In-Head
 - Normally Open Valve-In-Head
 - Check-O-Matic (maintains 37' [11,2 m] of elevation change)

- Electric Valve-In-Head solenoid: 24 V ac, 50/60 Hz
 - Inrush: 50 Hz: 0.17 Amps
60 Hz: 0.12 Amps
 - Holding: 50 Hz: 0.15 Amps
60 Hz: 0.10 Amps
- Nozzle variations: eight (52, 53, 54, 55, 56, 57, 58 and 59)
- Four in-line nozzles, rotating stream pattern
- Optional back nozzle
- Precipitation rates:
 - Minimum: .50"/hr.
 - Maximum: .72"/hr.
- Stator variations: 3
- Inlet size: 1½" NPT, BSP or ACME
- Apex at 80 psi, 25°:
 - 52 nozzle: 19' 0" @ 46'
 - 53 nozzle: 20' 10" @ 51'
 - 54 nozzle: 21' 0" @ 53'
 - 55 nozzle: 22' 8" @ 62'
 - 56 nozzle: 23' 6" @ 64'
 - 57 nozzle: 24' 6" @ 64'
 - 58 nozzle: 25' 0" @ 66'
 - 59 nozzle: 25' 4" @ 68'
- Body height: 11 ⅝"
- Body diameter: 7 ½"
- Pop-up to nozzle: 3 ¼"
- Weight: 3.70 lbs.



855S Series Performance Chart—U.S.

Base Pressure	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)	
	Blue	Gray	Red	Gray	Orange	Gray	Orange	Gray	Blue	Gray	Blue	Gray	Orange	Gray	Blue	Gray	Blue	Gray
psi	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM
50	52	13.9	62	17.4	66	20.7	69	28.6	—	—	—	—	—	—	—	—	—	—
65	54	15.7	64	20.8	68	23.4	74	31.2	76	33.8	81	35.7	—	—	—	—	—	—
80	57	17.2	68	22.9	72	25.3	77	34.4	79	37.2	85	39.4	89	43.6	92	47.5	96	57.0
100	59	19.1	73	25.5	76	28.7	80	38.2	84	41.3	89	43.7	94	48.5	95	51.1	100	61.1
	Low-flow Stator								Medium-flow Stator								High-flow	

Not recommended at these pressures. Radius shown in feet. Toro recommends the use of a 1¼" (30mm) swing joint at flows over 25 GPM (95 LPM). Sprinkler radius of throw per ASAE standard S398.1. All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.

855S Series Performance Chart—Metric

Pressure	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)			
	Bar	kPa	kg/cm²	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM	
	Blue	Gray	Red	Gray	Orange	Gray	Orange	Gray	Blue	Gray	Blue	Gray	Orange	Gray	Blue	Gray	Blue	Gray		
3,4	340	3,47	15,9	52,6	18,9	65,9	20,1	78,3	21,0	108,3	—	—	—	—	—	—	—	—		
4,5	450	4,59	16,5	59,4	19,5	78,3	20,7	88,6	22,6	113,1	23,2	127,9	24,7	135,1	—	—	—	—		
5,5	550	5,61	17,4	65,1	20,7	86,7	22,0	97,7	23,5	130,2	24,1	140,8	25,9	149,1	27,1	165,0	28,1	179,8	29,3	215,7
6,9	690	7,04	18,0	72,3	22,3	96,5	23,2	108,6	24,4	144,6	25,6	156,3	27,1	165,4	28,7	183,6	29,0	194,9	30,5	231,3
	Low-flow Stator								Medium-flow Stator								High-flow			

Not recommended at these pressures. Radius shown in meters. Toro recommends the use of a 1¼" (30mm) swing joint at flows over 25 GPM (95 LPM). Sprinkler radius of throw per ASAE standard S398.1.



835S Series Conversion Assembly



855S Series Conversion Assembly for Ribbed Bodies



855S Series Conversion Assembly for Ribless Bodies



Attention:
600, 700 and 800S Series Users

835S/855S Conversion Assemblies

- Trjectory™ adjustment
- Full- and part-circle in one sprinkler
- Back nozzle capable

Quickly upgrades existing Toro sprinklers to the latest technology to provide key 835S/855S features.