

## Lowest cost of ownership.

*Improves your bottom line.*

**Fewer parts save time and money.** There are less replacement parts on the 800S Series. And these parts cost about 40% less than competitive parts.



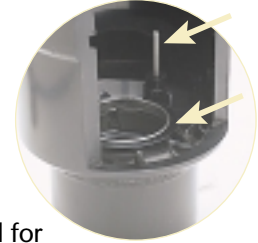
**Operates at lower pressures and amperage to reduce power and wire costs.** Operating at a lower pressure saves energy. That in turn saves money.



**Removable rock screen is easy to service—no special tools required.** The removable rock screen stops debris before damage occurs. It's removable, making servicing a breeze—no special tools are required. What's more, there aren't any threads to strip.



**Indestructible stainless steel valve seat and communication tube—never need replacing.** Both parts are built to last. They will stand the test of time and won't need to be replaced for the life of the sprinkler.



**Upgrade easily and save money.** Conversion assemblies enable upgrades using authentic Toro parts—not imitations. Upgrades are for 600 and 700 Series sprinklers.



# Flexibility.

Conveniently accommodates varying applications and irrigation requirements.

## Trjectory™ 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.



## Selectable pilot valve requires less service components.

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



## Part- and full-circle in one sprinkler.\*

Finally, one sprinkler can accommodate your part- and true-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.



### Specifying Information—830S & 850S

8X4S X X XX X X

Body Inlet	Arc	Body Threads	Valve Type	Nozzle	Pressure Regulation*	Optional
3—1" 5—1½"	4—Full-circle	0—NPT 4—ACME 5—BSP	1—Normally Open Hydraulic 2—Check-O-Matic 6—Electric	<b>834S</b> 31 32 33 34 35 36 37 <b>854S</b> 52 53 54 55 56 57 58 59	6—65 psi (4,5 Bar) 8—80 psi (5,5 Bar)	E—Effluent Model D—Decoder Model N—Nickel-plated Model

For Example:

When specifying a full-circle 830S Series Sprinkler with NPT threads, #34 nozzle, an electric valve and pressure regulation at 65 psi (4,5 Bar), 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.

### Specifying Information—835S & 855S

8X5S X X XX X X

Body Inlet	Arc	Body Threads	Valve Type	Nozzle	Pressure Regulation*	Optional
3—1" 5—1½"	5—Part-circle and Full-circle In One	0—NPT 4—ACME 5—BSP	1—Normally Open Hydraulic 2—Check-O-Matic 6—Electric	<b>835S</b> 31 32 33 34 35 36 37 <b>855S</b> 52 53 54 55 56 57 58 59	6—65 psi (4,5 Bar) 8—80 psi (5,5 Bar)	E—Effluent Model D—Decoder Model N—Nickel-plated Model

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.



**TORO** Count on it.

# 800S Series



G O L F   S P R I N K L E R S

## Based on proven technology.

When creating the 800S Series sprinkler, we started with technology that works. Then we enhanced it. This blend of old and new defines strength, control, reliability and efficiency.

And with the introduction of the 835S and 855S Series models, the bar is raised once again. Flexibility has been redefined.



## Reliability.

*Works every time.*

**1 Smooth rotation for extended drive life.**

A double-turbine seal to keep oil in and water out, a stronger output torque and a larger diameter turbine combine to make up the Constant-velocity gear-drive design. The 800S Series ensures smooth rotation to extend sprinkler life. This gear-drive design is proven—it has been around for nearly 40 years.

**2 Nearly three times the lightning protection keeps your system working.**

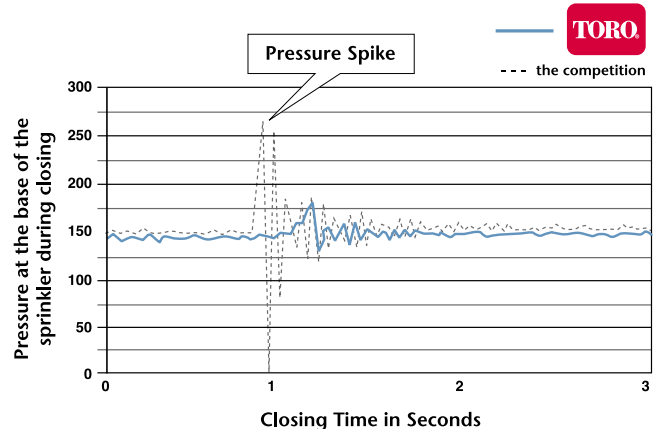
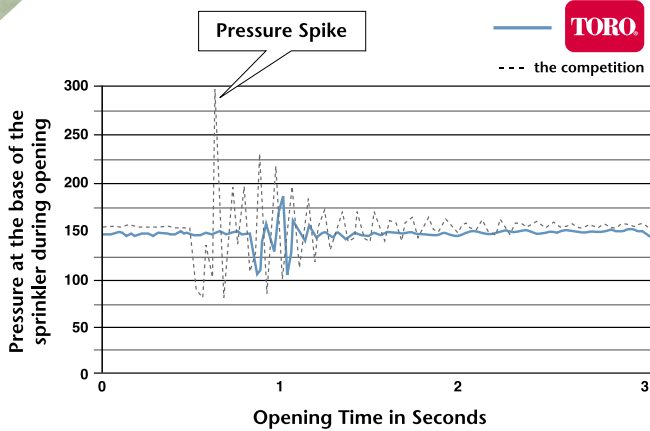
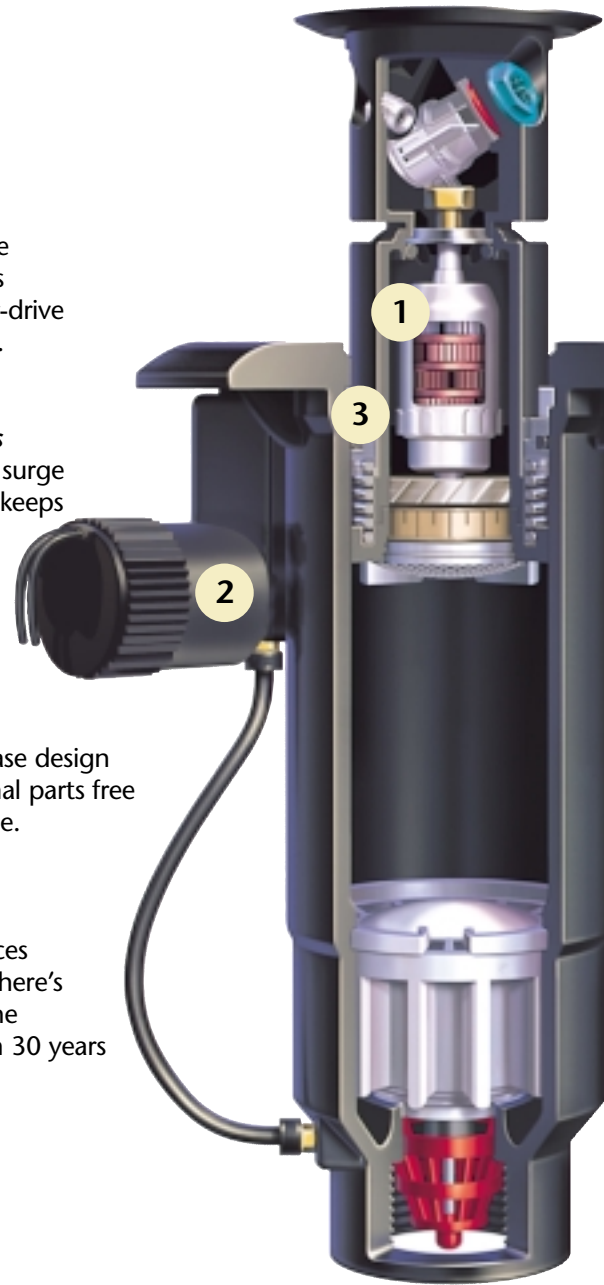
With nearly three times the surge protection, the 800S Series Spike-Guard™ solenoid keeps your system running and reduces the need for replacing parts. When tested, our competitors failed at 7,000 volts while 800S Series exceeds 20,000 volts without fail.

**3 Internal parts are protected to maintain sprinkler operation.**

The 800S Series' closed-case design uniquely defends against impact and keeps internal parts free from debris contamination. It's also easy to service.

**4 Steady piston valve reduces system damage.**

The steady piston valve opening and closing reduces pressure shock to the sprinkler's hydraulic system. There's less water hammer, pressure spikes and damage to the sprinkler and overall system. It's also time-proven with 30 years of performance.



# Durability.

Built to last even in the toughest conditions.

## Debris-resistant nozzles eliminate clogging.

800S Series nozzles include a built-in stream straightener while the inner/intermediate nozzles eliminate clogging. A pre-screen has been added that allows in only debris that is sure to flow through the nozzle opening.



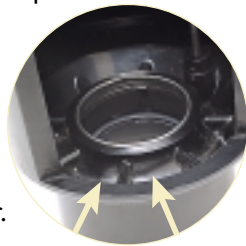
## Riser seal protects against debris contamination.

The urethane over-molded DuraSeal™ riser seal has the right amount of flush on pop-up and pop-down, avoiding permanent damage from debris contamination.



## Debris traps prevent contamination and damage.

DebrisBuster™—just as its name states—it traps sediment before damage to the valve or seat can occur.



## Durable construction prolongs sprinkler life.

The body is molded from ABS engineering-grade plastic, incorporating indestructible stainless steel and brass fittings. The 800S Series sprinklers' construction defines strength—the strongest in the industry.



## Pilot valve protection reduces the need for replacements.

The body mounting minimizes damage and ensures continued operation even if the flange is damaged.



830S 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	■ RED	● BLUE	■ RED	● ORANGE	■ RED	● ORANGE	■ RED	● GRAY	■ RED	● GRAY	■ RED	● RED	■ RED	
psi	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	
50	55	13.7	61	17.5	63	20.4	67	24.9	69	28.2	69	29.4	69	32.2	
65	57	15.5	65	20.0	67	23.3	73	28.4	77	32.3	77	33.7	77	36.2	
80	60	17.2	69	22.2	71	25.8	79	31.7	82	35.9	83	37.6	83	40.5	
100	63	19.2	73	24.8	75	28.8	81	35.4	88	40.4	89	42.2	91	45.3	
Low-flow Stator										Medium-flow Stator					

Not recommended at these pressures. Radius shown in feet. Toro recommends the use of a 1/4" (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

850S Series Performance Chart—U.S.

Base Pressure	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	■ RED	● ORANGE	■ RED	● ORANGE	■ RED	● GRAY	■ RED	● GRAY	■ RED	● RED	■ RED	● RED	■ RED	● BEIGE	■ RED
psi	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM
50	61	18.0	63	20.8	69	26.1	71	30.3	73	31.7	74	35.1	75	38.5	75	43.9
65	67	20.4	69	23.8	75	29.9	78	34.5	81	36.1	83	39.8	83	42.9	83	50.2
80	71	22.7	73	26.4	79	33.0	84	38.4	87	40.0	89	44.1	90	47.6	91	55.7
100	73	25.4	75	29.5	83	37.0	89	42.9	91	44.8	95	49.3	96	53.2	97	60.1
Low-flow Stator								Medium-flow Stator				High-flow Stator				

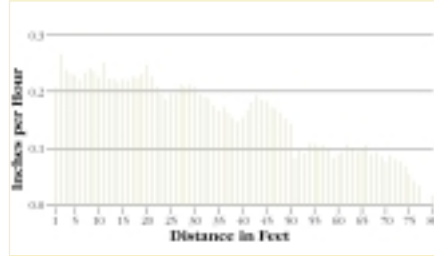
Not recommended at these pressures. Radius shown in feet. Toro recommends the use of a 1/4" (30mm) swing joint at flows over 25 GPM (95 LPM). Sprinkler radius of throw per ASAE standard S398.1  
 ● = Main Nozzle ● = Intermediate Nozzle ■ = Inner Nozzle

# Performance.

*Superior coverage. The right amount of water, where you need it.*

## Exact flow and spray uniformity for superior coverage.

The 800S Series nozzle configuration provides better distribution uniformity, nozzle flexibility and system efficiency.



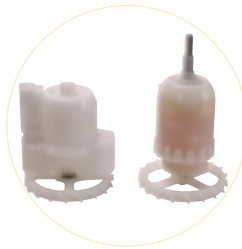
## Precise pressure regulation—the right amount of water, where you need it.

With precise pressure regulation, you are covered from all angles. The pilot valve provides accurate, consistent pressure regulation, exact flow and proper distribution uniformity.



## Reliable rotation speeds provide more control and saves water.

The guesswork is taken out. The Constant-velocity Drive provides reliable rotation speed—from sprinkler to sprinkler.



## High pop-up clears taller grasses.

The higher 4" pop-up height makes 800S Series applicable to most large turf applications.



## Low-power solenoid reduces wire costs and saves money.

The 800S Series low-powered Spike-Guard™ solenoid has less than half the current amperage of other solenoids so you can run more sprinklers simultaneously or reduce wiring costs.



## Unidirectional rotation ensures uniform coverage.

When utilizing the full-circle setting, unidirectional rotation provides even and uniform water coverage.

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 1/4" (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—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 1/4" (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.