



800S Series Golf Sprinklers



800S Series

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 **More than double the lightning protection keeps your system working.**

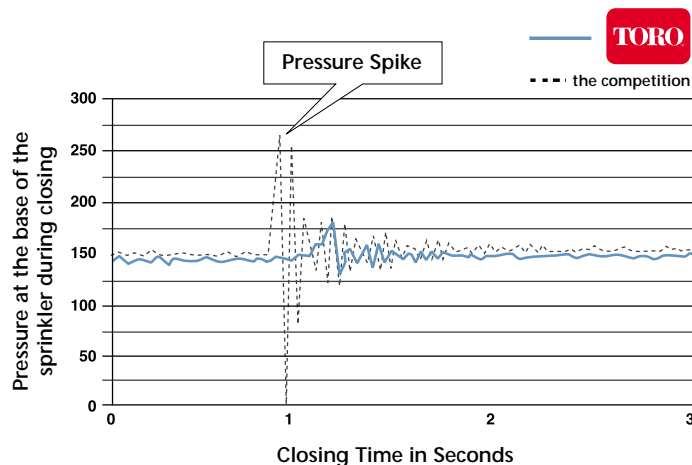
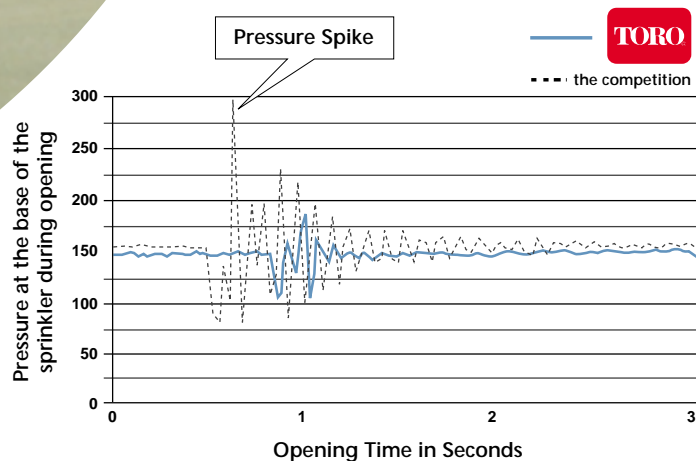
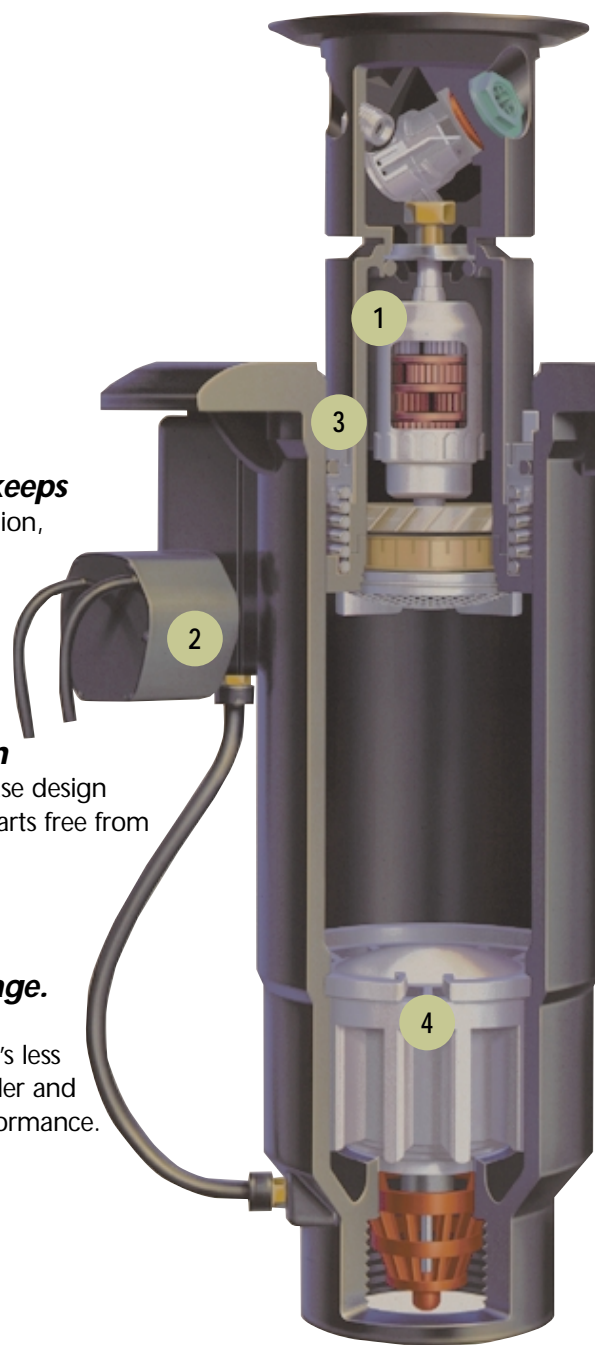
With twice the surge protection, the 800S Series solenoid keeps your system running and reduces the need for replacing parts. When tested, our competitors failed at 7,000 volts while 800S Series exceeds 20,000 volts without fail.

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.

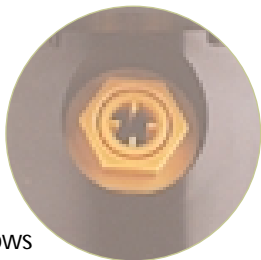


Durability.

Built to last even in the toughest conditions.

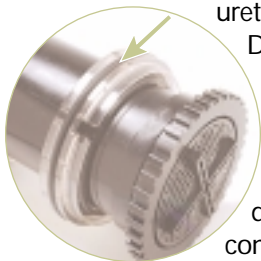
Debris-resistant nozzles eliminate clogging.

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.



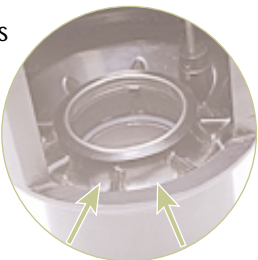
Riser seal protects against debris contamination.

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.



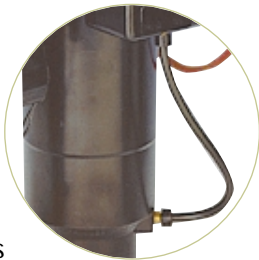
Debris traps prevent contamination and damage.

DebrisBuster™—just as its name states—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			Nozzle Set 32			Nozzle Set 33			Nozzle Set 34			Nozzle Set 35			Nozzle Set 36			Nozzle Set 37		
	PSI	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius
50		13.8	51	17.4	59	20.4	61	24.8	66	29.0	67	30.1	69	32.1	69						
65		15.7	54	19.9	63	23.3	65	28.3	73	33.2	75	34.5	77	37.1	77						
80		17.4	57	22.1	67	25.8	71	31.5	79	36.8	81	38.5	81	40.4	83						
100		19.3	57	24.7	71	28.8	79	35.2	81	41.3	87	42.6	87	45.2	91						

Radius shown in feet
Toro recommends the use of a 1½" (30mm) swing joint at flows over 25 GPM (95 LPM)
Sprinkler radius of throw per ASAE standard S398.1

860S Series Performance Chart—U.S.

Base Pressure	Nozzle Set 61			Nozzle Set 62			Nozzle Set 63			Nozzle Set 64			Nozzle Set 65			Nozzle Set 66			Nozzle Set 67		
	PSI	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius
50		13.1	52	16.7	56	21.1	57	25.0	61	29.0	63	29.8	63	31.4	63						
65		14.1	53	19.4	57	24.3	59	28.7	67	33.5	69	34.5	69	36.2	69						
80		18.8	53	21.6	59	27.1	63	31.2	69	37.7	73	39.1	73	40.6	77						
100		20.8	53	24.4	60	30.3	65	36.4	71	42.1	75	43.4	75	45.7	81						

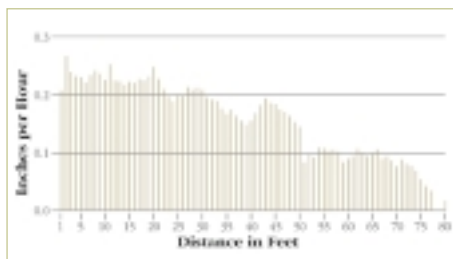
Radius shown in feet
Toro recommends the use of a 1½" (30mm) swing joint at flows over 25 GPM (95 LPM)
Sprinkler radius of throw per ASAE standard S398.1

Performance.

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

Exact flow and spray uniformity for superior coverage.

The 800S Series three-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.



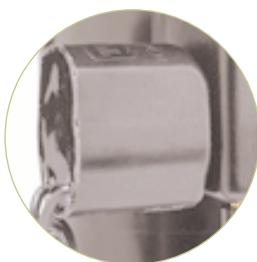
Reliable rotation speeds provide more control and saves water.

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



Low-power solenoid reduces wire costs and saves money.

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



High pop-up clears taller grasses.

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



850S Series Performance Chart—U.S.

Base Pressure	Nozzle Set 51		Nozzle Set 52		Nozzle Set 53		Nozzle Set 54		Nozzle Set 55		Nozzle Set 56		Nozzle Set 57		Nozzle Set 58	
PSI	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius
50	14.0	52	18.3	60	21.0	62	26.3	66	31.0	72	32.5	72	36.0	72	40.5	76
65	16.0	55	21.0	64	24.0	66	30.0	72	35.5	78	37.0	80	41.0	82	46.5	84
80	17.5	56	23.0	68	26.8	70	33.0	76	39.5	82	41.0	82	45.5	83	51.0	90
100	19.5	60	26.0	70	30.0	76	37.0	78	44.0	88	46.0	88	51.0	90	57.0	96

Radius shown in feet
Sprinkler radius of throw per ASAE standard S398.1

880S Series Performance Chart—U.S.

Base Pressure	Nozzle Set 81		Nozzle Set 82		Nozzle Set 83		Nozzle Set 84		Nozzle Set 85		Nozzle Set 86		Nozzle Set 87		Nozzle Set 88	
PSI	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius
50	14.1	52	19.1	59	21.7	60	26.5	63	30.9	68	32.2	68	34.2	68	37.6	69
65	17.5	57	22.1	61	25.0	63	30.5	67	35.7	75	37.2	75	39.4	75	43.5	77
80	19.5	61	24.6	67	26.7	67	34.1	71	39.9	77	41.6	77	44.1	77	48.6	79
100	21.9	61	27.6	67	30.3	71	38.4	75	44.8	78	45.5	83	49.6	83	54.7	83

Radius shown in feet
Sprinkler radius of throw per ASAE standard S398.1

800S Series

Lowest cost of ownership.

Improves your bottom line.

Fewer parts save time and money. It's simple—less parts means a lower overall cost (up to 40% less than the competition), including any future replacement parts.



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.



Operates at lower pressures and amperage to reduce power and wire costs.

Operating at a lower pressure saves energy. That in turn saves money.

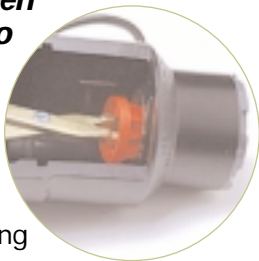


Upgrade easily and save money. Trust what you know—don't replace quality with substandard imitations. Convert your old 600 and 700 Series sprinklers with genuine Toro parts.



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.



Specifying Information—830S & 850S Series Sprinklers

8X4S							X	X	XX	X	X
Body Inlet	Arc	Body Threads	Valve Type	Nozzle	Pressure Regulation*	Optional					
830S 3—1"	4—Full-circle	0—NPT 4—ACME 5—BSP	1—Normally Open Hydraulic 2—Check-O-Matic 6—Electric	830S 31 32 33 34 35 36 37	5—50 PSI (3,5 Bar) 6—65 PSI (4,5 Bar) 8—80 PSI (5,5 Bar) 1—100 PSI (6,9 Bar)	E—Effluent Model					
850S 5—1½"				850S 51 52 53 54 55 56 57 58 59							

For Example:

When specifying a 830S Series Sprinkler with NPT threads, #34 nozzle, an electric valve and pressure regulation at 50 PSI (3,5 Bar), you would specify:

834S-06-345

* Electric only.

Specifying Information—860S & 880S Series Sprinklers

8XXS X X XX X X						
Body Inlet	Arc	Body Threads	Valve Type	Nozzle	Pressure Regulation*	Optional
<u>860S</u> 6—1"	4—Full-circle 5—Adjustable Part-circle	0—NPT 4—ACME 5—BSP	1—Normally Open Hydraulic 2—Check-O-Matic 6—Electric	860S 61 62 63 64 65 66 67	5—50 PSI (3,5 Bar) 6—65 PSI (4,5 Bar) 8—80 PSI (5,5 Bar)	E—Effluent Model
<u>880S</u> 8—1½"				<u>880S</u> 81 82 83 84 85 86 87 88	1—100 PSI (6,9 Bar)	
For Example: When specifying a full-circle 880S Series Sprinkler with NPT threads, #82 nozzle, an electric valve and pressure regulation at 65 PSI (4,5 Bar), you would specify: 884S-06-826						

* Electric only.

800S Series Sprinkler

Reliability

Works every time.

Durability

Built to last.

Performance

Superior coverage.

Lowest cost of ownership

Improves your bottom line.

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. What's more, we're not the only ones that think so...

John Zimmers,
Golf Course
Superintendent,
Oakmont Golf
and Country Club,
Oakmont, Pennsylvania



"The 800S Series sprinkler

uses the cutting-edge

technology that I wanted

for my course. Precision

and control were big factors

and the 800S Series'

features deliver."

A Tradition of Dependability



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