

**TORO****SpecSheet**

## 640 Series Sprinklers

**The toughest sprinklers on any turf**

Landscape architects, irrigation consultants and contractors rely on the Toro 640 sprinkler for superior performance.

***Athletic***

**Toro 640 Series  
Sprinklers  
47'-67' Radius**



*Check-O-Matic Valve-In-Head*

**The number one choice  
for U.S. athletic fields.**

Install the 640 Series sprinkler and step up to the best product in the field. Because this Toro gear-driven rotary sprinkler isn't just our top-of-the-line performer. It's the number one choice for U.S. athletic fields. A record we've held for more than a decade running — that's durability.

From professional and amateur athletic playing fields to a variety of commercial installations, 640 sprinklers are an outstanding choice for medium to large turf areas.

**Twice as heavy.  
Twice as tough.**

The body of the 640 sprinkler is specially designed to withstand the most brutal surges and water hammer. We've made it twice as heavy as most other brands, and constructed the bull gear and final drive gears of brass and stainless steel to give you years of reliable performance.

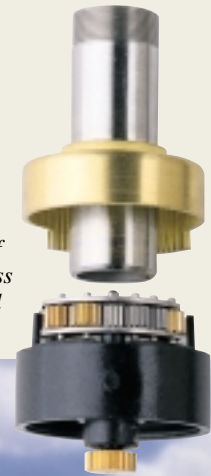
What's more, prying tools can't pop it — or stop it. We've locked the nozzle on the gear drive with a set screw. And a stainless-steel case completely surrounds the nozzle, including the top, so only the radius adjustment screw is exposed — leaving vandals high and dry. The 640 sprinkler is a tough competitor — on any field.



*A rugged stainless-steel case protects the nozzle and drive assembly.*



*Critical bull gear and final drive gears are made of high-strength brass and stainless steel*



**High performance flexibility.**

For flexible installation, we've designed the 640 sprinkler with a radius that can be reduced up to 25 percent. Plus, you can choose from 5 nozzles and 12 different arcs with the option of either the valve-in-head (normally open hydraulic models) or Check-O-Matic models. A standard black rubber cover is available for normal applications; a lavender cap indicates the use of effluent water.

Performance? Count on consistently smooth, uniform application of water and whisper-quiet operation — courtesy of the 640 sprinkler's unique gear-drive design.

**Reduce your liability and maintenance.**

Irrigation systems for public, high traffic applications often come complete with a major drawback — danger. People can trip and fall on protruding sprinklers — making your carefully installed system less than reliable and making you just

plain liable. The 640 sprinkler offers a simple, effective solution. Mounted 1/2" below ground level, the head is never an obstacle. The nozzle pops up only during operation. Otherwise, it's safely out of the way.

**Go with the pro.**

The greenest grass. The strongest body. The easiest installation. The safest, most dependable irrigation. No wonder we back our 640 with a five-year warranty.

On your next project, go with the pro. The Toro 640 Series sprinkler — because every day should be another perfect performance.

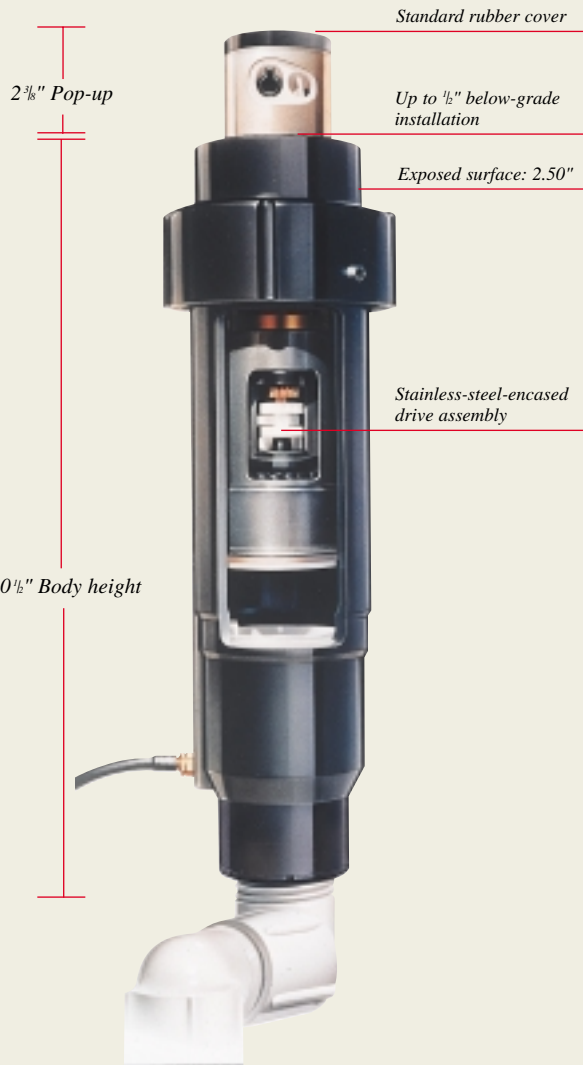


*Small exposed surface, flush top and heavy-duty retraction spring make prying up the 640 Series sprinkler virtually impossible.*



In addition, the pop-up nozzle streamlines maintenance. Unlike an above-ground sprinkler, the head never needs edge trimming.

It's safe to say that the 640 sprinkler helps you spend more time managing. And less time worrying.



**640 Valve-In-Head**

**Specifying Information**

64X 0X XX XXX X					
Arc	Valve Type	Nozzle	Special Arc		Optional
0—Special Arc	1—Normally Open	40	045°	148°	E—Effluent Model
1—90°	Valve-In-Head	41	060°	173°	
2—180°	2—Check-O-Matic	42	108°	192°	
3—270°		43	127°	238°	
4—360°		44			

For Example:  
When specifying a 640 Series Sprinkler with a 108° arc, #43 nozzle and a check valve, you would specify:

**640-02-43-108**



## Toro 640 Series Sprinklers 47'-67' Radius

### Features

- Selection of 5 nozzles and 12 arcs
- Valve-in-head (normally open hydraulic models)
- Adjustment screw allows up to 25% radius reduction
- Standard rubber cover
- Check-O-Matic models available — eliminating low-head drainage
- Up to 1/2" below-grade installation

- Vandal-resistant cap with locking set screw
- Small exposed surface diameter
- Stainless-steel-encased nozzle and drive assembly
- Gear-drive design
- Basket filter screen
- Stainless-steel retraction spring
- Pop-up design
- Durable engineering plastic, brass and stainless-steel construction
- Recommended operating pressure: 40-90 PSI
- Maximum operating pressure: 150 PSI
- Pop-up to nozzle: 2 3/8"
- 1" female-threaded inlet, BSP threads available
- Trajectory: 27°

- Dimensions:
  - Exposed surface diameter: 2 1/2"
  - Body diameter: 2 1/2"
  - Cap diameter: 3 1/4"
  - Body height:
    - Check-O-Matic: 9"
    - Valve-in-head: 10 1/2"
- Check-O-Matic maintains 15' elevation change

### Apex at 50 PSI

Nozzle	27°
	Maximum Ht. of Spray
40	13'11"
41	14'
42	15'
43	18'8" @ 60 PSI
44	19'6" @ 75 PSI

### Specifications

- Radius: 47'-67'
- Flow rate: 6.0-25.0 GPM

640 Series Performance Chart

Nozzle	PSI	Radius	GPM	360°		270°		238°		192°		180°		173°		148°		127°		108°		90°		60°		45°	
				△	□	△	□	△	□	△	□	△	□	△	□	△	□	△	□	△	□	△	□	△	□	△	□
40	40	47'	6.0	0.25	0.26	0.33	0.35	0.38	0.40	0.47	0.49	0.50	0.52	0.52	0.54	0.61	0.64	0.71	0.74	0.83	0.87	1.00	1.05	1.50	1.57	2.00	2.09
	50	50'	6.7	0.25	0.26	0.33	0.34	0.37	0.39	0.46	0.48	0.49	0.52	0.51	0.54	0.60	0.63	0.70	0.73	0.82	0.86	0.99	1.03	1.48	1.55	1.97	2.06
	60	52'	7.3	0.25	0.26	0.33	0.35	0.38	0.39	0.47	0.49	0.50	0.52	0.52	0.54	0.60	0.63	0.70	0.74	0.83	0.87	0.99	1.04	1.49	1.56	1.98	2.08
	70	53'	8.0	0.26	0.27	0.35	0.36	0.40	0.41	0.49	0.51	0.52	0.55	0.54	0.57	0.64	0.67	0.74	0.78	0.87	0.91	1.05	1.10	1.57	1.65	2.09	2.19
	80	54'	8.6	0.27	0.28	0.36	0.38	0.41	0.43	0.51	0.53	0.54	0.57	0.56	0.59	0.66	0.69	0.77	0.81	0.90	0.95	1.08	1.14	1.63	1.70	2.17	2.27
90	55'	9.2	0.28	0.29	0.37	0.39	0.42	0.44	0.52	0.55	0.56	0.59	0.58	0.61	0.68	0.71	0.79	0.83	0.93	0.98	1.12	1.17	1.68	1.76	2.24	2.34	
41	40	48'	9.5	0.38	0.40	0.50	0.53	0.57	0.60	0.71	0.74	0.76	0.79	0.79	0.83	0.92	0.97	1.07	1.13	1.26	1.32	1.52	1.59	2.27	2.38	3.03	3.18
	50	53'	10.2	0.33	0.35	0.44	0.47	0.50	0.53	0.63	0.66	0.67	0.70	0.69	0.73	0.81	0.85	0.95	0.99	1.11	1.17	1.33	1.40	2.00	2.10	2.67	2.80
	60	54'	11.0	0.35	0.36	0.46	0.48	0.52	0.55	0.65	0.68	0.69	0.73	0.72	0.76	0.84	0.88	0.98	1.03	1.16	1.21	1.39	1.45	2.08	2.18	2.77	2.91
	70	55'	11.9	0.36	0.38	0.48	0.50	0.55	0.57	0.68	0.71	0.72	0.76	0.75	0.79	0.88	0.92	1.02	1.07	1.20	1.26	1.45	1.52	2.17	2.27	2.89	3.03
	80	56'	12.7	0.37	0.39	0.49	0.52	0.56	0.59	0.70	0.73	0.74	0.78	0.77	0.81	0.91	0.95	1.06	1.11	1.24	1.30	1.49	1.56	2.23	2.34	2.98	3.12
90	57'	13.4	0.38	0.40	0.50	0.53	0.57	0.60	0.71	0.74	0.76	0.79	0.79	0.83	0.92	0.97	1.07	1.13	1.26	1.32	1.52	1.59	2.27	2.38	3.03	3.18	
42	40	52'	12.0	0.41	0.43	0.54	0.57	0.62	0.65	0.76	0.80	0.82	0.85	0.85	0.89	0.99	1.04	1.16	1.21	1.36	1.42	1.63	1.71	2.45	2.56	3.26	3.42
	50	55'	12.9	0.39	0.41	0.52	0.55	0.59	0.62	0.73	0.77	0.78	0.82	0.82	0.85	0.95	1.00	1.11	1.16	1.31	1.37	1.57	1.64	2.35	2.46	3.14	3.29
	60	56'	14.0	0.41	0.43	0.55	0.57	0.62	0.65	0.77	0.81	0.82	0.86	0.85	0.89	1.00	1.05	1.16	1.22	1.37	1.43	1.64	1.72	2.46	2.58	3.28	3.44
	70	57'	14.7	0.42	0.44	0.55	0.58	0.63	0.66	0.78	0.82	0.83	0.87	0.87	0.91	1.01	1.06	1.18	1.24	1.39	1.45	1.66	1.74	2.49	2.61	3.33	3.49
	80	58'	15.8	0.43	0.45	0.57	0.60	0.65	0.68	0.81	0.85	0.86	0.90	0.90	0.94	1.05	1.10	1.22	1.28	1.44	1.51	1.73	1.81	2.59	2.71	3.45	3.62
90	58'	16.8	0.46	0.48	0.61	0.64	0.69	0.73	0.86	0.90	0.92	0.96	0.96	1.00	1.12	1.17	1.30	1.36	1.53	1.60	1.84	1.92	2.75	2.89	3.67	3.85	
43	40	56'	13.2	0.39	0.41	0.51	0.54	0.59	0.61	0.73	0.76	0.77	0.81	0.80	0.84	0.94	0.99	1.10	1.15	1.29	1.35	1.55	1.62	2.32	2.43	3.09	3.24
	50	59'	14.5	0.38	0.40	0.51	0.53	0.58	0.61	0.72	0.75	0.77	0.80	0.80	0.83	0.93	0.98	1.09	1.14	1.28	1.34	1.53	1.60	2.30	2.41	3.06	3.21
	60	59'	15.7	0.41	0.43	0.55	0.58	0.63	0.66	0.78	0.81	0.83	0.87	0.86	0.90	1.01	1.06	1.18	1.23	1.38	1.45	1.66	1.74	2.49	2.61	3.32	3.47
	70	61'	17.0	0.42	0.44	0.56	0.59	0.64	0.67	0.79	0.82	0.84	0.88	0.87	0.92	1.02	1.07	1.19	1.25	1.40	1.47	1.68	1.76	2.52	2.64	3.36	3.52
	80	63'	18.3	0.42	0.44	0.56	0.59	0.64	0.67	0.79	0.83	0.85	0.89	0.88	0.92	1.03	1.08	1.20	1.26	1.41	1.48	1.69	1.78	2.54	2.66	3.39	3.55
90	64'	19.4	0.44	0.46	0.58	0.61	0.66	0.69	0.82	0.86	0.87	0.91	0.91	0.95	1.06	1.11	1.23	1.29	1.45	1.52	1.74	1.82	2.61	2.74	3.48	3.65	
44	40	55'	16.7	0.51	0.53	0.67	0.71	0.77	0.80	0.95	1.00	1.01	1.06	1.06	1.11	1.23	1.29	1.44	1.51	1.69	1.77	2.03	2.13	3.04	3.19	4.06	4.25
	50	60'	18.6	0.47	0.50	0.63	0.66	0.72	0.75	0.89	0.93	0.95	1.00	0.99	1.04	1.15	1.21	1.35	1.41	1.58	1.66	1.90	1.99	2.85	2.99	3.80	3.98
	60	61'	19.9	0.49	0.52	0.65	0.68	0.74	0.78	0.92	0.97	0.98	1.03	1.02	1.07	1.20	1.25	1.39	1.46	1.64	1.72	1.97	2.06	2.95	3.09	3.93	4.12
	70	63'	21.9	0.51	0.53	0.67	0.71	0.77	0.80	0.95	1.00	1.01	1.06	1.06	1.11	1.23	1.29	1.44	1.51	1.69	1.77	2.03	2.13	3.04	3.19	4.06	4.25
	80	65'	23.4	0.51	0.53	0.68	0.71	0.77	0.81	0.95	1.00	1.02	1.07	1.06	1.11	1.24	1.30	1.44	1.51	1.70	1.78	2.04	2.13	3.05	3.20	4.07	4.27
90	67'	25.0	0.51	0.54	0.68	0.71	0.77	0.81	0.96	1.01	1.02	1.07	1.07	1.12	1.24	1.30	1.45	1.52	1.71	1.79	2.05	2.15	3.07	3.22	4.09	4.29	

\*△ Precipitation rates are for triangular spacing, shown in inches per hour, calculated at 55% of diameter.

□ Precipitation rates are for square spacing, shown in inches per hour, calculated at 50% of diameter.

All performance specifications are based on the stated working pressure available at the base of the sprinkler head.

Note: For the 640 Series sprinkler, differing arcs cannot be valved together.



The Toro Company • Irrigation Division • An ISO 9001-Certified Facility  
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