

# TORO® T7 SERIES ROTORS



The 1" inlet Toro® T7 Series rotor is built rugged to withstand the performance and durability requirements of municipal/government, sports fields and large commercial settings. Driven by customer feedback, the T7 Series rotor has been designed and tested to ensure consistent performance and features a full 5" pop-up height, a visual top-of-rotor arc adjustment dial, and Smart Arc™ Memory that resets the rotor's arc should it be changed due to vandalism or inexperienced users. Further enhancing its versatility, the T7 Series is also available in Low Flow models for smaller radius, lower flow applications, such as baseball infields.

## FEATURES & BENEFITS

### Visual Arc Indication

Arc setting indicator on top of the rotor allows for easy wet or dry adjustments from 45°-360°.

### High Efficiency Nozzles

Single port design ensures water is evenly distributed across the pattern without putting too much water near the head, which prevents seed from washing away.

### Vandal and Abuse Resistance

Smart Arc™ memory safely returns sprinkler to previously set arc if vandalized. An integrated slip clutch prevents the breaking and stripping of gears.

### Design Solutions and Safety

Standard Check-O-Matic Seal prevents low head drainage, and a minimal 2.2" exposed rubber cover diameter reduces the potential for injuries on play areas.

### Durability

Heavy-duty retract spring and wiper seal reduce the occurrence of stick-ups and seal leakage, while a water-lubricated gear drive contributes to long-term consistent performance.



Effluent  
Options  
Available



SST Riser  
Options  
Available



## Additional Features

- ✓ Standard reversible Check-O-Matic seal
- ✓ Uni-directional full-circle operation
- ✓ Included nozzle trees:
  - Low flow nozzles (2, 3, 4.5, 6, 7.5, and 9 gpm)
  - Standard nozzles (7, 9, 12, 16, 20, 24, and 27 gpm)
- ✓ Slip clutch
- ✓ Locking cap screw
- ✓ Adjustment/pull up tool included

### NOZZLE PERFORMANCE DATA-HIGH FLOW MODELS

Nozzle	psi	Radius (ft)	gpm	Precip. Rate (in/hr) ▲	Precip. Rate (in/hr) ■
7.0	40	46	6.6	0.72	0.62
	50	47	7.4	0.75	0.65
	60	48	8.1	0.78	0.68
	70	49	8.8	0.82	0.71
	80	51	9.4	0.83	0.72
	90	52	10.3	0.85	0.73
9.0	100	54	10.7	0.83	0.72
	40	47	7.4	0.76	0.66
	50	50	8.3	0.73	0.64
	60	51	8.7	0.76	0.66
	70	52	9.4	0.81	0.70
	80	54	9.9	0.80	0.69
12.0*	90	55	10.9	0.82	0.71
	100	56	11.5	0.84	0.73
	40	50	9.5	0.89	0.77
	50	51	11.6	0.90	0.78
	60	53	12.7	0.91	0.79
	70	54	13.8	0.96	0.83
16.0	80	55	14.7	0.99	0.86
	90	56	15.6	1.02	0.88
	100	57	16.5	1.04	0.90
	40	53	13.0	1.06	0.92
	50	56	15.1	1.06	0.92
	60	58	16.2	1.04	0.90
20.0	70	59	17.5	1.09	0.95
	80	61	18.8	1.10	0.95
	90	62	20.0	1.14	0.98
	100	63	21.1	1.17	1.01
	40	53	16.0	1.28	1.10
	50	58	17.5	1.22	1.05
24.0	60	60	19.5	1.21	1.05
	70	61	20.6	1.26	1.09
	80	65	22.2	1.19	1.03
	90	66	23.6	1.23	1.06
	100	67	24.8	1.25	1.09
	27.0	40	52	15.8	1.27
50		60	17.5	1.09	0.95
60		63	19.3	1.11	0.96
70		65	20.7	1.14	0.99
80		67	22.3	1.15	1.00
90		68	23.8	1.20	1.04
7.0	100	71	25.3	1.16	1.01
	40	55	18.7	1.42	1.23
	50	65	23.4	1.16	1.00
	60	71	23.6	1.05	0.91
	70	72	25.8	1.10	0.95
	80	73	27.4	1.14	0.99
9.0	90	74	29.1	1.18	1.02
	100	75	30.6	1.21	1.05

### T7 ROTOR MODEL LIST

Model	Description
T7P-02	1" Rotor
T7P-02E	1" Rotor, Effluent rubber cover
T7P-02L	1" Rotor, Low Flow
T7P-02LE	1" Rotor, Low Flow, Effluent rubber cover
T7PSS-02	1" Stainless Steel Rotor
T7PSS-02E	1" Stainless Steel Rotor, Effluent rubber cover
T7PSS-02L	1" Stainless Steel Rotor, Low Flow
T7PSS-02LE	1" Stainless Steel Rotor, Low Flow, Effluent rubber cover



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## SPECIFICATIONS

### Operational

- Radius capability: Low flow models—39'-56'  
Standard models—46'-75'
- Flow rates: Low flow models—1.7-12.8 gpm  
Standard models—6.6-30.6 gpm
- Operating pressure range: 40-100 psi
- Recommended operating pressure: 60-70 psi
- Inlet size: 1" female NPT
- Nozzle trajectory: 25°
- Arc adjustment: 45°-360° (unidirectional at 360°)

### Dimensions

- Pop-up height (measured from top of cap to nozzle): 5"
- Body height: 8.8"
- Body diameter: 2.7"
- Rubber cover diameter: 2.2"

### Available Options

- Stainless Steel riser
- Effluent Lavender rubber cover

### Warranty

- Five years

### NOZZLE PERFORMANCE DATA-LOW FLOW MODELS

Nozzle	psi	Radius (ft)	gpm	Precip. Rate (in/hr) ▲	Precip. Rate (in/hr) ■
2.0	40	39	1.7	0.25	0.22
	50	39	2.0	0.29	0.25
	60	40	2.2	0.30	0.26
	70	40	2.4	0.33	0.28
	80	40	2.6	0.35	0.31
	90	41	2.7	0.36	0.31
3.0*	100	41	2.9	0.38	0.33
	40	39	2.4	0.36	0.31
	50	40	2.8	0.39	0.33
	60	41	3.1	0.41	0.36
	70	41	3.4	0.45	0.39
	80	42	3.6	0.46	0.40
4.5	90	42	3.9	0.47	0.41
	100	43	4.1	0.49	0.42
	40	38	4.1	0.63	0.54
	50	41	4.7	0.62	0.53
	60	41	5.2	0.68	0.59
	70	42	5.7	0.71	0.62
6.0	80	42	6.1	0.77	0.66
	90	43	6.5	0.78	0.68
	100	43	6.9	0.83	0.72
	40	43	5.0	0.59	0.51
	50	46	5.7	0.59	0.51
	60	48	6.3	0.61	0.52
7.5	70	49	7.0	0.65	0.57
	80	49	7.4	0.68	0.59
	90	50	7.9	0.70	0.61
	100	50	8.4	0.74	0.64
	40	44	5.8	0.66	0.58
	50	46	6.7	0.70	0.60
9.0	60	48	7.4	0.71	0.62
	70	49	8.0	0.75	0.65
	80	50	8.8	0.78	0.67
	90	50	9.5	0.84	0.73
	100	52	10.0	0.81	0.70
	40	45	7.4	0.81	0.70
7.0	50	49	8.5	0.78	0.68
	60	51	9.4	0.80	0.70
	70	53	10.4	0.83	0.72
	80	55	11.3	0.83	0.72
	90	55	12.0	0.89	0.77
	100	56	12.8	0.90	0.78

\* When the sprinkler is adjusted to 360°, it will be uni-directional in that direction of rotation (clockwise or counterclockwise) at the moment when the sprinkler was changed to 360°  
 \* Pre-installed nozzle. Data based on 180°.

### Specifying Information—T7 Series

T7PXX-02XX			
Description	Optional	Thread	Optional
<b>T7P</b>	<b>XX</b>	<b>02</b>	<b>XX</b>
T7 Series Rotor	SS-Stainless Steel Riser	NPT Thread	E—Effluent L—Low Flow
Example: A low flow T7 Series rotor with a Stainless Steel riser and Effluent rubber cover would be specified as: <b>T7PSS-02LE</b>			