

Rotors

The Toro® T7 Rotor is built rugged to withstand the harsh conditions and vandalism present in municipal/government, sports fields and commercial rotor applications. It has been designed and tested to ensure the high reliability demanded by the market today. Its extensive customer identified features including a full 5 ¾" pop-up height and large radius make it ideal for sportsfields, parks and other large turf applications.

Features & Benefits

Top 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.

Design Solutions and Safety

Standard check valve to prevent low head drainage. Small exposed diameter reduces possibility of injury on play areas.

Durability

Heavy duty retract spring and water-lubricated gear drive. Wiper seal reduces stick-ups and wiper seal leaks.

Versatility

Also available in low-flow versions for short radius (<50') applications such as baseball infields.



Effluent
Options
Available



SST Riser
Options
Available



Standard rubber cover with arc indicator from 45°-360° simplifies installation and service



T7 Series Rotors

Specifications

Dimensions

- Pop-up height to nozzle: 5" (127mm)
- Body height: 8.8" (223.5mm)
- Rubber cover diameter: 2.2" (55.9mm)
- Body diameter: 2.7" (68.6mm)

Operating Specifications

- Precipitation rate: .30-.55 (7.6 - 14.0mm) inches per hour
- Radius: Low-flow models: 38'-53' (11,6 - 16,2m)
High-flow models: 46'-83' (14,0 - 25,0m);
- Flow rate: Low-flow models: 1.7-13.0 gpm (6,4-49, 2 lpm)
High-flow models: 6.8-30.5 gpm (25,4-116 lpm);
- Operating pressure range: 40-100 psi (2,8-7,0 Bar)
- Inlet size: 1" (25mm) threaded NPT or 1" (25mm) BSP
- Nozzle trajectory: 25°
- Arc adjustment: 45°-360° (unidirectional at 360°)

Additional Features

- Standard check valve
- Threaded cap-retained riser assembly
- Variable reversing stator
- Two nozzle trees: Low flow-6 nozzles (2, 3, 4.5, 6, 7.5 and 9)
High flow-7 nozzles (7, 9, 12, 16, 20, 24 and 27)
- Slip clutch
- Nozzle support/breakup screw
- Riser pull-up feature on top of nozzle base
- Adjustment/pull up tool supplied
- Locking cap screw

Options Available

- Stainless steel riser
- Effluent indicator

Warranty

- Five years

Nozzle Performance Data-Low Flow Models

Nozzle	Press. (PSI)	Radius (FT)	Flow Rate (GPM)	Precip Rate (in/hr) ▲	Precip Rate (in/hr) ■
2.0	40	40	1.73	0.25	0.22
	50	42	1.96	0.29	0.25
	60	42	2.17	0.30	0.26
	70	41	2.36	0.33	0.28
	80	42	2.54	0.35	0.31
	90	41	2.71	0.36	0.31
3.0	100	41	2.88	0.38	0.33
	40	41	2.43	0.36	0.31
	50	42	2.77	0.39	0.33
	60	41	3.10	0.41	0.36
	70	41	3.38	0.45	0.39
	80	42	3.64	0.46	0.40
4.5	90	41	3.89	0.47	0.41
	100	43	4.06	0.49	0.42
	40	38	4.07	0.63	0.54
	50	41	4.65	0.62	0.53
	60	41	5.17	0.68	0.59
	70	42	5.64	0.71	0.62
6.0	80	42	6.08	0.77	0.66
	90	43	6.49	0.78	0.68
	100	43	6.88	0.83	0.72
	40	43	4.92	0.59	0.51
	50	46	5.63	0.59	0.51
	60	48	6.27	0.61	0.52
7.5	70	50	7.05	0.65	0.57
	80	49	7.37	0.68	0.59
	90	50	7.87	0.70	0.61
	100	50	8.37	0.74	0.64
	40	44	5.78	0.66	0.58
	50	46	6.63	0.70	0.60
9.0	60	48	7.37	0.71	0.62
	70	50	8.05	0.75	0.65
	80	51	8.73	0.78	0.67
	90	52	9.46	0.84	0.73
	100	52	9.89	0.81	0.70
	40	45	7.33	0.81	0.70
16.0	50	49	8.44	0.78	0.68
	60	51	9.39	0.80	0.70
	70	54	10.43	0.83	0.72
	80	55	11.27	0.83	0.72
	90	55	12.05	0.89	0.77
	100	56	12.74	0.90	0.78

* Pre-installed nozzle
Data based on 180°

Nozzle Performance Data-High Flow Models

Nozzle	Press. (PSI)	Radius (FT)	Flow Rate (GPM)	Precip Rate (in/hr) ▲	Precip Rate (in/hr) ■
7.0	40	46.3	6.81	0.715	0.620
	50	48.7	7.41	0.746	0.646
	60	49.0	8.10	0.782	0.677
	70	50.3	8.90	0.824	0.714
	80	52.0	9.67	0.827	0.716
	90	52.0	10.27	0.845	0.732
	100	53.3	10.85	0.827	0.716
9.0	40	47.3	7.54	0.759	0.657
	50	50.7	8.25	0.734	0.635
	60	50.3	8.91	0.762	0.660
	70	52.0	9.81	0.807	0.699
	80	53.7	10.49	0.800	0.693
	90	53.3	11.20	0.823	0.713
	100	54.0	11.83	0.839	0.727
12.0*	40	50.3	9.95	0.885	0.767
	50	53.3	10.55	0.902	0.781
	60	56.7	11.53	0.913	0.791
	70	59.0	12.54	0.956	0.828
	80	59.7	13.51	0.993	0.860
	90	60.7	14.38	1.020	0.883
	100	63.0	15.18	1.039	0.900
16.0	40	52.3	13.42	1.062	0.920
	50	57.0	14.96	1.061	0.919
	60	60.0	15.79	1.044	0.904
	70	61.0	17.13	1.094	0.948
	80	63.7	18.41	1.100	0.953
	90	64.3	19.64	1.136	0.984
	100	65.7	20.80	1.166	1.009
20.0	40	52.0	16.10	1.275	1.104
	50	57.3	18.40	1.216	1.053
	60	61.0	19.56	1.209	1.047
	70	63.7	21.01	1.256	1.087
	80	66.3	22.58	1.188	1.029
	90	68.0	23.99	1.225	1.061
	100	70.3	25.29	1.253	1.085
24.0	40	53.7	15.46	1.272	1.101
	50	60.3	17.69	1.093	0.946
	60	63.7	19.76	1.107	0.959
	70	66.3	21.61	1.138	0.985
	80	68.3	23.29	1.154	0.999
	90	70.0	24.87	1.196	1.036
	100	72.3	26.30	1.160	1.005
27.0	40	55.0	19.37	1.424	1.233
	50	64.3	21.98	1.157	1.002
	60	71.0	23.82	1.051	0.910
	70	72.3	25.67	1.101	0.954
	80	73.0	27.34	1.141	0.988
	90	74.3	29.03	1.179	1.021
	100	75.0	30.52	1.207	1.045

Specifying Information—T7 Sprinkler

T7PXX-02XX			
Descrip.	Optional	Thread	Optional
T7P	SS	02	E
T7P—Sports Rotor	SS—Stainless Steel Riser	NPT Thread	E—Effluent L—Low Flow

Example: A low flow T7P sprinkler with a stainless steel riser and effluent rubber cover would be specified as **T7PSS-02LS**

T7 Rotor Model List	
Model	Description
• T7P-02	1" (25mm) Rotor
• T7P-02E	1" (25mm) Rotor, Effluent Indicator
• T7P-02L	1" (25mm) Rotor, Low Flow
• T7P-02LE	1" (25mm) Rotor, Low Flow, Effluent Indicator
• T7PSS-02	1" (25mm) Stainless Steel Rotor
• T7PSS-02E	1" (25mm) Stainless Steel Rotor, Effluent Indicator
• T7PSS-02L	1" (25mm) Rotor, Low Flow
• T7PSS-02LE	1" (25mm) Rotor, Low Flow, Effluent Indicator



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Specifications subject to change without notice. For more information, contact your local Toro distributor. P/N 12-1099-IRC Rev.3 ©2012 The Toro Company. All rights reserved.