

TORO

TS170 SERIES ROTORS



The piston-driven Toro TS170 Series long radius rotor is the irrigation solution of choice for the cooling and washing down of large synthetic turf fields. Capable of achieving a throw of 177 feet, the TS170 Series Rotor can be installed along the outer perimeter of the playing surface, which helps preserve player safety and maintain field aesthetics.

FEATURES & BENEFITS

Innovative Nozzle Technology

The unique nozzle design minimizes water turbulence, which helps to maintain stream exit speed at the nozzle outlet. Resulting in higher radii at reduced flows. Nozzles are available in 16, 20, and 24 mm sizes.

Low Maintenance Piston Drive

A fully enclosed piston drive system presents smooth, continuous rotation.

Integrated Valve-in-Head*

Electric valve in head models feature ON/OFF/Auto control at the rotor, and provide individual management of each rotor to help ensure they perform at their highest level of efficiency.

Reduced Watering Time

High flow capability of up to 303 gallons per minute, in combination with adjustable rotation speed allows a synthetic turf field featuring a system of TS170 Series Rotors to be wet down in under ten minutes.

*Valve-In-Head (VIH) models available in June 2018





The TS170 Series Rotor is available with a factory-installed synthetic TurfCup™.

SPECIFICATIONS

Operational

- Radius Capability: 111-177 feet
- Arc Adjustment: Part circle (30°-330°) / Full circle (360°)
- Output Flow: 113-303 gallons per minute
- Recommended Operating Pressure: 100 psi
- Maximum Operating Pressure: 145 psi
- Minimum Operating Pressure: 60 psi
- Nozzle Options: 16, 20 and 24 mm
- Nozzle Trajectory: 25°
- Speed of Rotation (180° arc): 50-120 seconds, adjustable (pressure dependent)
- Valve Type: Electric Valve-in-Head (VIH) 24V ac actuated solenoid

Dimensions

- Inlet Size: 2" NPT Female
- Overall Dimensions: 20.8" H x 13.75" W (Block Style model), 26.8" H x 13.75" W (VIH model)
- Cover Diameter: 10.1"
- Pop-up Height: 4.7"
- Overall Weight: 23 pounds (Block Style model), 26 pounds (VIH model)

Warranty

- Five years

TS170 MODEL LIST

Model	Description
TS170-02-16	TS170 Rotor, 16 MM, NPT
TS170-02-20	TS170 Rotor, 20 MM, NPT
TS170-02-24	TS170 Rotor, 24 MM, NPT
TS170V-02-16	TS170 Rotor with VIH, 16 MM, NPT
TS170V-02-20	TS170 Rotor with VIH, 20 MM, NPT
TS170V-02-24	TS170 Rotor with VIH, 24 MM, NPT
TS171-02-16	TS170 Rotor with Synthetic TurfCup, 16 MM, NPT
TS171-02-20	TS170 Rotor with Synthetic TurfCup, 20 MM, NPT
TS171-02-24	TS170 Rotor with Synthetic TurfCup, 24 MM, NPT
TS171V-02-16	TS170 Rotor with Synthetic TurfCup and VIH, 16 MM, NPT
TS171V-02-20	TS170 Rotor with Synthetic TurfCup and VIH, 20 MM, NPT
TS171V-02-24	TS170 Rotor with Synthetic TurfCup and VIH, 24 MM, NPT

Additional Features

- ✓ Available in Block Style models
- ✓ Available with factory-installed Synthetic TurfCup™
- ✓ High-density body construction with stainless steel and brass components.

TS170 PERFORMANCE DATA*

Pressure (psi)	16 mm Nozzle		20 mm Nozzle		24 mm Nozzle	
	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)
60	111	114	131	159	137	214
70	121	127	137	178	144	239
90	131	139	147	195	160	262
100	137	151	157	211	170	283
115	144	161	163	225	177	303

*Radius measurements taken at minimum rotation speed.

Specifying Information—TS170 Series Rotors

TS170-XX-XX		
Configuration	Inlet Thread	Nozzle
TS170	XX	XX
TS170 - TS170 long-range rotor	02 - 2" NPT	16 - 16 mm
TS170V - TS170 long-range rotor with VIH	52 - 2" BSP	20 - 20 mm
TS171 - TS170 long-range rotor with Synthetic TurfCup		24 - 24 mm
TS171V - TS170 long-range rotor with Synthetic TurfCup and VIH		
Example: A TS170 Rotor with 16 mm nozzle would be specified as: TS170-02-16		



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