

The Toro logo, consisting of the word "TORO" in white, bold, sans-serif capital letters inside a red rounded rectangle.

## TS80 SERIES GEAR DRIVEN ROTOR



The Toro® TS80 Rotor Series is a gear driven pop-up rotor that is the ideal choice for large turf areas like sports fields, public parks, large green areas and recreational spaces, equestrian applications and open parklands. Available in both block style (with check) and valve-in-head (VIH) models, the compact and fully adjustable TS80 offers Pressure Control at the head between 45 and 115 PSI, adjustable rotation speed, independent left and right arc setting, and is completely top-serviceable. With a radius of up to 82 feet and a flow rate range to 45 GPM, the TS80 Rotor Series provides ultimate flexibility to meet the precise application needs of any large turf environment.

## FEATURES & BENEFITS

### Adjustable Pressure Control

Top of rotor Pressure Control between 45 and 115 PSI at the head offers precise radius adjustment, overlap coverage, pressure equalization at each head, and protection from surge. Ensures uniform coverage across the irrigated area by controlling pressure, optimizing system efficiency, and supporting water conservation efforts. Pressure control also protects against water hammer, reducing stress on the system components and extending the overall lifespan of the equipment.

### Innovative Nozzle Technology

This model lineup includes six high distribution uniformity nozzle options available in 4, 5, 6, 7, 8, and 9 mm sizes. The Toro TS80's unique nozzle design minimizes water turbulence, which results in a longer throw, reduced flows and high uniformity. Nozzles are easily maintained (removed and replaced).

### Easy Arc Adjustment

Independent left and right arc adjustability – Left Arc can be set +/- 90° from the left stop, and the Right Arc can be set 30° to 330°. The TS80 is available in a preset full-circle (360°) and adjustable arc models (30-330°).



TS80VP-02-XX

## Additional Features

### Adjustable Rotation Speed

- ✓ Rotation speed for 360° arc in 130 - 280 seconds
- ✓ Adjustable stator for faster/slower rotation

### Closed Case Rotor

- ✓ Designed for maximum efficiency and durability.
- ✓ Snap ring retained gear drive and riser assembly
- ✓ Snap-off cover for easy nozzle changes
- ✓ Completely top-serviceable

### Block-Style and VAC Valve-In-Head (VIH) Models

- ✓ Block-style for multiple head zones
- ✓ VIH with built-in 24 VAC electric control module
- ✓ VIH body allows ON/OFF/Auto control at the rotor for individual management of each rotor to ensure that they perform at their highest level of efficiency.

### Completely Top Serviceable

- ✓ All parts including the solenoid and control module can be serviced from the top of the sprinkler without the need for digging.

## SPECIFICATIONS

### Technical Data:

- Nozzle Sizes: 4, 5, 6, 7, 8, and 9 mm
- Operating Pressure: 60 - 100 PSI
- Radius Range: 48 - 82 Feet
- Flow Rate: 12 - 45 GPM
- Rotation Time: 130 - 280 Sec/360°
- Nozzle Trajectory: 25°
- Inlet: 1" NPT

### Warranty

- Five years

### TS80 SERIES NOZZLE MODEL LIST

Model	Description
TS80VF-02-04	TS80 Rotor, VIH, Full-Circle, 4 mm, NPT
TS80VF-02-05	TS80 Rotor, VIH, Full-Circle, 5 mm, NPT
TS80VF-02-06	TS80 Rotor, VIH, Full-Circle, 6 mm, NPT
TS80VF-02-07	TS80 Rotor, VIH, Full-Circle, 7 mm, NPT
TS80VF-02-08	TS80 Rotor, VIH, Full-Circle, 8 mm, NPT
TS80VF-02-09	TS80 Rotor, VIH, Full-Circle, 9 mm, NPT
TS80VP-02-04	TS80 Rotor, VIH, Part-Circle, 4 mm, NPT
TS80VP-02-05	TS80 Rotor, VIH, Part-Circle, 5 mm, NPT
TS80VP-02-06	TS80 Rotor, VIH, Part-Circle, 6 mm, NPT
TS80VP-02-07	TS80 Rotor, VIH, Part-Circle, 7 mm, NPT
TS80VP-02-08	TS80 Rotor, VIH, Part-Circle, 8 mm, NPT
TS80VP-02-09	TS80 Rotor, VIH, Part-Circle, 9 mm, NPT
TS80CKF-02-04	TS80 Rotor, Check Valve, Full-Circle, 4 mm, NPT
TS80CKF-02-05	TS80 Rotor, Check Valve, Full-Circle, 5 mm, NPT
TS80CKF-02-06	TS80 Rotor, Check Valve, Full-Circle, 6 mm, NPT
TS80CKF-02-07	TS80 Rotor, Check Valve, Full-Circle, 7 mm, NPT
TS80CKF-02-08	TS80 Rotor, Check Valve, Full-Circle, 8 mm, NPT
TS80CKF-02-09	TS80 Rotor, Check Valve, Full-Circle, 9 mm, NPT
TS80CKP-02-04	TS80 Rotor, Check Valve, Part-Circle, 4 mm, NPT
TS80CKP-02-05	TS80 Rotor, Check Valve, Part-Circle, 5 mm, NPT
TS80CKP-02-06	TS80 Rotor, Check Valve, Part-Circle, 6 mm, NPT
TS80CKP-02-07	TS80 Rotor, Check Valve, Part-Circle, 7 mm, NPT
TS80CKP-02-08	TS80 Rotor, Check Valve, Part-Circle, 8 mm, NPT
TS80CKP-02-09	TS80 Rotor, Check Valve, Part-Circle, 9 mm, NPT

### Specifying Information — TS80 Gear Driven Rotor

TS80XX-02-XX				
Configuration	Style	Arc	Threads	Nozzle
TS80	XX	F/P	02	XX
TS80 Gear Driven Rotor	V – Valve-In-Head CK – Check Valve	F – Full-Circle P – Part-Circle	02 – NPT Inlet	04 – 4 mm 05 – 5 mm 06 – 6 mm 07 – 7 mm 08 – 8 mm 09 – 9 mm

### TS80 SERIES NOZZLE PERFORMANCE DATA

Pressure	Nozzle 4 mm		Nozzle 5 mm		Nozzle 6 mm		Nozzle 7 mm*		Nozzle 8 mm		Nozzle 9 mm	
psi	gpm	feet	gpm	feet	gpm	feet	gpm	feet	gpm	feet	gpm	feet
60	12.0	48	15.0	53	19.0	56	23.0	59	28.0	66	34.0	69
70	12.3	50	15.7	55	20.1	59	24.8	63	30.1	70	36.2	73
80	12.9	53	16.6	57	21.2	62	26.2	66	32.0	73	38.4	76
90	13.4	55	17.4	60	22.3	65	27.6	70	33.8	76	40.5	80
100	14.5	57	18.8	62	23.6	67	29.2	72	35.8	78	43.2	82



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