

TS90 Series



Rotors



Features & Benefits

Trujectory Adjustment from 7° to 30°

Fine tunes nozzle spray height, helps provide true head-to-head coverage, and compensates for windy conditions.

Part- And Full-Circle In One Sprinkler

No need to inventory multiple models or service parts

Back Nozzle Capable

Perfect for perimeter of sports fields. Provides the flexibility for fine-tuning any watering requirement.

Ratcheting Riser

Allows you to adjust the riser position in the body with no disassembly. Simply pull up the riser and ratchet it to the precise position you want to water.

Three Nozzle Configuration

Provides better distribution uniformity, nozzle flexibility and system efficiency.

Constant-Velocity Drive

Provides reliable rotation speed – from sprinkler to sprinkler.

TurfCup™ for Sports Fields

The optional TurfCup version seamlessly integrates into either natural grass or artificial turf sports fields, enhancing player safety, surface playability and field aesthetics.





TS90 Series

Specifications

Dimensions

Body Height: 10" (254mm)
Overall Height: 12.5" (317mm)
Retracted Height: 8.5" (216mm)
Pop-Up Height: 4" (100mm)
Expected Cap Diameter: 2.2" (56mm)

• Exposed Cap Diameter: 2.2" (56mm)

Operating Specifications

Radius: 53'-95' (16,2-29,0m) at 25° trajectory
Flow Rate: 14.0-61.5 GPM (53-233 LPM)
Procipitation Pate: 56, 60"/br (14.2.15.2mm/)

• Precipitation Rate: .56-.60"/hr (14,2-15,2mm/hr)

• Arc: Full- & Part-circle in one

- Full-circle: 360° unidirectional clockwise rotation

- Part-circle: 40°-330°

• Rotation Speed: 3 minutes ± 30 seconds

• Inlet: 1" (25mm) female-threaded (NPT or BSP)

• Operating pressure range: 40-100 psi (2,8-7,0 Bar)

Additional Features

• Full set of color-coded nozzles that thread directly into the front.

• Rubber cover and below grade installation

• Check Valve standard – maintains up to 10' (3m) elevation

• TurfCup version for seamless sports field installation.

Nozzle options: 9 main, 3 intermediate, 1 inner,
 1 molded-in inner (no molded-in inner on TurfCup version)

Options Available

• Effluent Indicator available: part number 118-0063

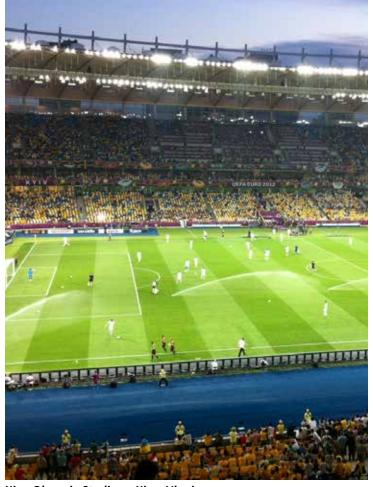
 Main Nozzle Tool: 5/8" (16mm) hex socket or Toro Part 995-99

• Intermediate and Trajectory tool: 5/16" (8mm) hex socket or Toro Part 995-105

Warranty

5 years

TS90TP Nozzle Performance Data—US



Kiev Olympic Stadium, Kiev, Ukraine
The site of UEFA Euro 2012 European soccer championship, shown here prepping the field prior to play, is using the TS90 with $TurfCup^{TM}$.

Nozzle Set			50 PSI		60 PSI		70 PSI		80 PSI		90 PSI		100 PSI	
Number	Main/Intermediate	Stator	Radius (Ft.)	Flow (GPM)										
1	Yellow/Blue	102-1939 Yellow	53	14.0	54	15.2	55	16.4	55	17.4	54	18.5	56	19.4
2	Blue/Red		55	18.8	59	20.5	61	22.1	59	23.6	59	25.0	62	26.3
3	Brown/Orange		-	-	57	22.7	60	24.5	61	26.1	63	27.6	68	29.1
4	Orange/Orange		-	-	-	-	74	32.7	80	35.1	81	37.0	82	38.9
5	Green/Blue	102-1940 White	-	-	-	-	-	-	79	37.7	82	39.9	84	41.8
6	Gray/Blue		-	-	-	-	-	-	82	39.6	86	41.9	87	44.1
7	Black/Orange		-	-	-	-	-	-	80	43.6	87	46.2	84	48.6
8	Red/Blue		-	-	-	-	-	-	86	48.5	88	51.4	88	54.1
9	Beige/Blue	102-1941 White	-	-	-	-	-	-	85	55.1	91	58.3	95	61.6

TS90 Series Model List					
Model	Description				
• TS90TP-02-14	#3 nozzle pre-installed (comes with #1,#2 and #4 nozzles)				
• TS90TP-02-58	#6 nozzle pre-installed (comes with #2,#5 and #8 nozzles)				
• TS90TP-02TC	TS90TP with TurfCup, #8 nozzle installed (comes with #5, #6 and #7 nozzles)				

Specifying Information—TS90TP

TS90TP-02 <u>XX-X-E</u>									
Arc	Threads	TurfCup™	Noz	zle	Optional				
TS90TP	02	XX	<u>X</u>		E				
TS90TP— TS90TP 1"	02—NPT	TC—TurfCup option	1	6	E—Effluent				
(25mm)			2	7	Model				
Rotor with			3	8					
TruJectory			4	9					
			5						
Example: A TS90 Series sprinkler with TruJectory, NPT threads, and with an 82' (25m) radius would be specified as: TS90TP-02-6									

