

TORO

Count on it.

Toro Irrigation TS90TP Commercial Sprinklers

For big open spaces, the Toro TS90 provides unparalleled features and performance into a single fully adjustable rotor. Designed for large turf areas, its radius of 16.2 metres to 29 metres is ideal for parks, sports fields, synthetic turf, athletic fields and race tracks. In addition, Toro patented Trjectory™ allows for the fine tuning of nozzle stream height from 7°-30° to ensure wind resistance and negate overspray.

Features and Benefits

- **Trjectory™ 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 the perimeters 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 – regardless of the pressure.
- **Effluent Options Available**



Operating Specifications

- Radius: 16.2m – 29.0m at 25° trajectory
- Flow Rate: 53 – 233 LPM
- Arc: Full & Part-circle in one
 - Full-circle: 360° unidirectional clockwise rotation
 - Part-circle: 40° - 330°
- Rotation Speed: 3 minutes +/- 30 seconds
- Inlet: 25mm FBSP
- Recommended operating pressure range: 340-690 kPa
- Nozzle Options: 9 main, 3 intermediate, 1 inner
- Trjectory™ Nozzle Trajectory Adjustment: 7° to 30°
- Standard Check Valve: 3m elevation

Dimensions

- Body Height: 254mm
- Overall Height: 317mm
- Retracted Height: 216mm
- Pop-Up Height: 102mm
- Exposed Cap Diameter: 56mm

Additional Features

- Adjustable Left and Right Arc Stops
- Rubber Cover
- Can be installed up to 15mm below grade
- Warranty – 5 Years

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TS90TP Nozzle Performance Data

Nozzle Set		Stator	340 kPa		410 kPa		480 kPa		550 kPa		620 kPa		690 kPa	
Number	Main/Intermediate		Radius (m)	Flow (LPM)	Radius (m)	Flow (LPM)	Radius (m)	Flow (LPM)	Radius (m)	Flow (LPM)	Radius (m)	Flow (LPM)	Radius (m)	Flow (LPM)
1	Yellow/Blue	102-1939 Yellow	16.2	53	16.5	58	16.8	62	16.8	66	15.5	70	17.1	74
2	Blue/Red		16.8	71	18.0	78	18.6	84	18.0	89	18.0	95	18.9	100
3	Brown/Orange		-	-	17.4	86	18.3	93	18.6	99	19.2	105	20.7	110
4	Orange/Orange		-	-	-	-	22.6	124	24.4	133	24.7	140	25.0	147
5	Green/Blue	102-1940 White	-	-	-	-	-	-	24.1	143	25.0	151	25.6	158
6	Grey/Blue		-	-	-	-	-	-	25.0	150	26.2	159	26.5	167
7	Black/Orange		-	-	-	-	-	-	24.4	165	26.5	175	25.6	184
8	Red/Blue		-	-	-	-	-	-	26.2	184	26.8	195	26.8	205
9	Beige/Blue	102-1941 White	-	-	-	-	-	-	25.9	208	27.7	221	29.0	233

TS90TP Back Nozzle Performance Data

Nozzles			448 kPa		550 kPa		Profile
Part #	Description		Radius (m)	Flow (LPM)	Radius (m)	Flow (LPM)	
102-6937	Inner Nozzle w/ Yellow Restrictor	Yellow/Yellow	8.8	14.0	9.2	15.5	
102-6531	Inner Nozzle w/ White Restrictor	Green/White	9.5	16.1	10.1	17.4	
102-2135	Inner Nozzle Assembly w/ White Restrictor	White/White	7.6	15.5	7.9	17.0	
102-2136	Inner Nozzle Assembly w/ Yellow Restrictor	Yellow/Yellow	7.3	14.4	7.6	15.5	
102-6883	Intermediate Nozzle	Brown	11.6	10.6	11.6	10.6	
102-6884	Intermediate Nozzle	Yellow	12.5	15.5	13.1	17.0	
102-6885	Intermediate Nozzle	Green	12.8	20.4	13.7	22.7	
102-2925	Intermediate Nozzle	Blue	12.2	10.6	12.8	12.1	
102-2926	Intermediate Nozzle	Orange	13.4	16.3	13.7	18.2	
102-2927	Intermediate Nozzle	Grey	14.0	19.3	14.3	20.4	
102-2928	Intermediate Nozzle	Red	14.6	24.6	15.3	26.5	
102-2929	Intermediate Nozzle	Beige	15.6	30.7	16.2	34.4	

TS90TP Nozzle Performance Data – No Main Nozzle

Base Pressure	Green 102-6531	Plug 102-2208	Grey 102-2927	Green 102-6531	Plug 102-2208	Green 102-6885	Green 102-6531	Plug 102-2208	Red 102-2928	Green 102-6531	Plug 102-2208	Beige 102-2929
	Radius (m)		LPM	Radius (m)		LPM	Radius (m)		LPM	Radius (m)		LPM
450	10.4		39.5	13.4		38.6	14.6		43.5	15.3		51.1
SOR*	3:40			3:50			3:25			2:40		
550	11.3		43.9	13.4		43.1	14.6		48.8	15.3		56.8
SOR*	3:15			3:25			3:00			2:30		

*SOR – Speed of Rotation (min : sec)

Dealer Stamp

**For Customer Service Call
Toro Irrigation on 1300 130 898**

Toro Irrigation is a business unit of Toro Australia Pty Ltd
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