

TS90 Series Commercial Sprinklers

For big open spaces, the Toro TS90 provides unparalleled features and performance in a single fully adjustable rotor. Designed for large turf areas, the 16.2 - 29 m radius is ideal for parks, sports fields, synthetic turf, athletic fields and race tracks. The uni-directional full and part circle head features Toro's patented TruJectory™ adjustment, allowing for fine tuning the nozzle spray height from 7°-30° to ensure wind resistance and head-to-head spacing.



Dimensions

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

Features and 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 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: 16.2 m – 29.0 m at 25° trajectory
- Flow Rate: 52.9 – 232.8 LPM
- Arc: Full & Part-circle in one
 - Full-circle: 360° unidirectional clockwise rotation
 - Part-circle: 40° - 330°
- Rotation Speed: 3 minutes +/- 30 seconds
- Inlet: 25 mm FBSP
- Recommended operating pressure range: 280-690 kPa
- Nozzle Options: 9 main, 3 intermediate, 1 inner
- TruJectory™ Nozzle Trajectory Adjustment: 7° to 30°
- Standard Check Valve: 3 m elevation

Additional Features

- Adjustable Left and Right Arc Stops
- Rubber Cover
- Can be installed up to 15 mm 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)	Radius (LPM)	Radius (m)	Radius (LPM)	Radius (m)	Radius (LPM)	Radius (m)	Radius (LPM)	Radius (m)	Radius (LPM)	Radius (m)	Radius (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

Part #	Description		Nozzles		448 kPa		550 kPa		Profile
			Radius (m)	Radius (LPM)	Radius (m)	Radius (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			
102-1928	Intermediate Nozzle	Red	14.6	24.6	15.3	26.5			
102-2929	Intermediate Nozzle	Beige	15.6	30.7	16.2	36.4			

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	
kPa	Radius (m)	LPM	Radius (m)	LPM	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	16.3	56.8					
SOR*	3:16			3:26			3:30			2:30			

*SOR - Speed of Rotation (min : sec)