

TORO

TS120 SERIES IMPACT SPRINKLERS



The TS120 Series Impact Sprinkler is capable of achieving long-range throws of up to 125 feet, making it well suited to meet the needs of both Synthetic and natural Turf sports fields. Available in Part Circle and Full Circle models, the TS120 can be configured with a factory-installed 4" TurfCup™ that helps to seamlessly blend the sprinkler into natural Turf surfaces and preserve field aesthetics. Combining a wide assortment of Nozzle options with low maintenance requirements and heavy-duty construction, the TS120 Series Impact Sprinkler is well positioned to help you preserve everything that makes your field unique.

FEATURES & BENEFITS

Synthetic or Natural Turf applications

The TS120 Series Nozzles offer excellent water distribution and radius capability, giving the TS120 sprinkler the ability to meet the needs and expectations of groundskeepers of both Synthetic and natural Turf fields.

Flexibility and Ease of Use

A Full Circle rotation speed of 60 seconds and easy tool-free arc adjustments allow flexibility in field design and irrigation schedules to best meet the needs of the site. All sprinkler parts can be dismantled and serviced from the top, limiting the need for digging or sub-surface access*.

Top Serviceable Valve-in-Head*

Electric Valve-In-Head (VIH) models feature ON/OFF/Auto control at the top of the sprinkler and provide individual control of each sprinkler to help ensure optimal performance and ease of maintenance.

Durable and Versatile

With the ability to operate on reclaimed and grey water systems, the robust and heavy-duty design makes the TS120 insensitive to many environmental conditions, such as frost and sand.



TS120

TS121V

*Top Serviceable VIH models available in June 2018

TS120 SERIES MODEL LIST

Model	Description
TS120P-02	TS120 Impact Sprinkler, Part Circle
TS120F-02	TS120 Impact Sprinkler, Full Circle
TS120VP-02	TS120 Impact Sprinkler with VIH, Part Circle
TS120VF-02	TS120 Impact Sprinkler with VIH, Full Circle
TS121VP-02	TS120 Impact Sprinkler with VIH and TurfCup™, Part Circle
TS121VF-02	TS120 Impact Sprinkler with VIH and TurfCup™, Full Circle
TS122VP-02	TS120 Impact Sprinkler with VIH and Synthetic Turf Cover, Part Circle
TS122VF-02	TS120 Impact Sprinkler with VIH and Synthetic Turf Cover, Full Circle
RT17463	7 mm Nozzle
RT17464	8 mm Nozzle
RT17465	9 mm Nozzle
RT17466	10 mm Nozzle
RT17467	11 mm Nozzle
RT17468	12 mm Nozzle
RT17469	13 mm Nozzle
RT17470	14 mm Nozzle
RT17471	15 mm Nozzle
RT17472	16 mm Nozzle
RT17473	17.5 mm Nozzle

SPECIFICATIONS

Operational

- Radius Capability: 62-125 feet
- Arc Adjustment: Part Circle (30°-330°) / Full Circle (360°)
- Output Flow: 20-121 gallons per minute
- Recommended Operating Pressure range: 45-120psi
- Maximum Operating Pressure: 145 psi
- Minimum Operating Pressure: 45 psi
- Nozzle Options: 7,8,9,10,11,12,13,14,15 and 17.5 mm
- Nozzle Trajectory: 22°
- Speed of Rotation (360°): 60 seconds
- Valve Type: Electric Valve-in-Head (VIH) 24V ac actuated solenoid
- Standard Nozzles: 9 mm (Part Circle) and 13 mm (Full Circle)

Dimensions

- Inlet Size: 1½" NPT female
- Overall Dimensions:
 - 14.8" H x 10.1" W (Block Style model)
 - 17.9" H x 10.1" W (VIH model)
 - 26.0" H x 10.1" W (VIH with TurfCup models)
- Pop-up Height (measured from grade to top of lid):
 - 4" (Standard)
 - 8.1" (with TurfCup)

Warranty

- Five years

Additional Features

- ✓ High level of wind resistance due to high velocity streams
- ✓ Full Circle models include a back nozzle for optimal coverage
- ✓ High-strength stainless steel riser helps prevent sprinkler damage due to unintended impact or vandalism
- ✓ Tool-free mounting and removal of lid

TS120 SERIES NOZZLE PERFORMANCE DATA – PART CIRCLE MODELS

psi	7 mm Nozzle		8 mm Nozzle		9 mm Nozzle*		10 mm Nozzle		11 mm Nozzle		12 mm Nozzle		13 mm Nozzle		14 mm Nozzle		15 mm Nozzle		17.5 mm Nozzle	
	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)
40	62	20.3	64	25.1	65	30.0	67	34.8	69	38.8	70	44.1	72	49.3	74	55.9	75	62.1	79	74.9
60	64	22.9	67	28.6	69	34.4	72	39.6	75	44.9	79	50.7	82	56.8	85	64.3	88	71.8	92	86.3
70	68	25.6	71	31.7	73	39.3	76	44.1	81	49.8	87	56.4	90	63.4	95	71.8	98	79.7	102	96.0
90	70	28.2	74	34.8	77	41.9	81	48.5	87	54.6	92	61.7	95	69.2	100	78.4	105	87.2	111	104.4
100	72	30.0	76	37.4	81	44.9	86	52.0	91	58.6	96	66.5	100	74.4	105	84.6	110	94.3	120	113.7
115	73	32.2	79	40.1	84	48.0	90	55.5	95	62.6	101	70.9	105	83.3	110	90.3	115	100.9	125	121.1

*Standard nozzle

TS120 SERIES NOZZLE PERFORMANCE DATA – FULL CIRCLE MODELS WITH BACK NOZZLE

psi	7 mm Nozzle		8 mm Nozzle		9 mm Nozzle		10 mm Nozzle		11 mm Nozzle		12 mm Nozzle		13 mm Nozzle*		14 mm Nozzle		15 mm Nozzle		17.5 mm Nozzle	
	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)
40	62	24.7	64	29.5	65	34.4	67	39.2	69	43.2	70	48.5	72	53.7	74	60.4	75	66.5	79	79.3
60	64	27.8	67	33.5	69	39.2	72	44.5	75	49.8	79	55.5	82	61.7	85	69.2	88	76.7	92	91.2
70	67	31.3	70	37.4	73	44.1	76	49.8	81	55.5	87	62.1	90	69.2	95	77.5	98	85.5	102	101.8
90	70	34.8	74	41.4	77	48.5	81	55.1	87	61.2	92	68.3	95	75.8	100	85.0	105	93.8	111	111.9
100	72	36.6	76	44.5	81	52.0	86	59.0	91	65.6	96	73.6	100	81.5	105	91.6	110	101.3	120	120.7
115	73	39.6	79	47.6	84	56.0	90	63.0	95	70.5	101	78.4	105	87.2	110	97.8	115	108.4	125	126.0

*Standard nozzle

Specifying Information – TS120 Series Impact Sprinklers

TS12XXX-02-XX						
Configuration			Style	Arc	Threads	Nozzle
TS12X			X	X	02	XX
TS120 – TS120 long-range impact sprinkler			Blank – Block Style V – Valve-In-Head	P – Part Circle F – Full Circle	02 – 1.5" NPT	07 – 7 mm
TS121 – TS120 long-range impact sprinkler with TurfCup						13 – 13 mm
TS122 – TS120 long-range impact sprinkler with Synthetic Turf cover						08 – 8 mm
						09 – 9 mm
						15 – 15 mm
						10 – 10 mm
						16 – 16 mm
						11 – 11 mm
						17 – 17.5 mm
						12 – 12 mm

Example: A full circle TS120 Series Impact Sprinkler with VIH, TurfCup, and 16mm nozzle would be specified as: **TS121VF-02-16**



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