

600 Series

SPECIALTY SPRINKLERS



Specialty Sprinklers. Complete Coverage.

Toro offers the only truly complete line of sprinklers in the turf industry. Toro 600 Series sprinklers provide specialty products for every application.

Your site is unique and your irrigation solution should be too. Toro understands. So we've provided a variety of 600 Series sprinklers to fit the spot.

For more than 30 years, Toro has designed and manufactured the finest plastic geared sprinklers available. So you can grow healthy, beautiful turf. Let the leader provide complete coverage for your unique situations.

Toro. The leader in turf management solutions.

TORO[®]

600 SERIES SPECIALTY SPRINKLERS

600 Series Features

- ▶ Three standard pressure regulation settings available to ensure consistently accurate nozzle performance, regardless of elevation:
 - 65 PSI*, 80 PSI and 100 PSI (electric and normally closed models)
- ▶ Four body styles/activation types available to fit every application: Electric Valve-In-Head, Normally Open Hydraulic Valve-In-Head, Normally Closed Hydraulic Valve-In-Head** and Check-O-Matic
- ▶ Manual control at the sprinkler, On-Off-Auto (electric and normally closed models)
- ▶ Bowl-vented discharge (atmospheric) minimizes the differential pressure required for regulation and ensures positive valve closure (electric and normally closed)
- ▶ Time-proven gear-drive design
- ▶ All internal components serviceable from the top of the sprinkler with Servi-Snap™
- ▶ Large selection of nozzles available
- ▶ Durable engineering plastic and stainless-steel construction

(* Except 690 Series)

(** Except 650 Series)

650 Series Specifications

- ▶ Radius: 61'-86'
- ▶ Flow rate: 16.4-43.7 GPM
- ▶ Maximum pressure: 150 PSI
- ▶ Trajectory: 25°
- ▶ 1½" female-threaded inlet
- ▶ Two arc selections:
 - 60°/120° full-circle, two-speed
 - 180°/180° full-circle, two-speed (Two-speed models run at half speed in non-overlap areas to provide balanced water application.)
- ▶ Rubber cover kit option: Part No. 650-00 (flat flange), 650-01 (round flange)
- ▶ Dimensions:
 - Pop-up height: 0.75"
 - Pop-up height to nozzle: 0.5"
 - Body height: 11"



Specifying Information

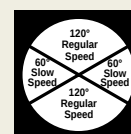
65X X X XX X					
Arc	Body Thread	Valve Type	Nozzle	Pressure Regulation	
6—Full-Circle, 2-Speed (60°/120°)	0—NPT	1—Normally Open Hydraulic	55 56 57	6—65 PSI	
8—Full-Circle, 2-Speed (180°/180°)	5—BSP	2—Check-O-Matic	58 59	8—80 PSI	
		6—Electric		1—100 PSI	
For Example:					
When specifying a full-circle, 2-speed 650 Series Sprinkler with a 60° x 120° arc, NPT threads, #55 nozzle, an electric valve and pressure regulation at 80 PSI, you would specify:					
656-06-558					

* Electric models only.

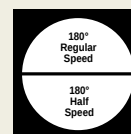
650 SERIES NOZZLE PERFORMANCE — U.S.

BASE PRES.	NOZZLE SET 55		NOZZLE SET 56		NOZZLE SET 57		NOZZLE SET 58		NOZZLE SET 59	
PSI	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM
50	61	16.4	64	17.8	65	22.4	66	24.7	67	28.7
55	62	17.2	65	18.7	67	23.6	68	25.8	71	30.7
60	62	18.0	67	19.6	70	25.1	71	26.9	76	33.7
65	63	18.7	68	20.4	71	26.1	73	28.1	78	34.9
70	64	19.4	69	21.1	72	27.0	75	29.7	80	36.5
75	64	20.0	70	21.9	74	27.9	76	30.5	81	37.5
80	65	20.7	71	22.6	75	28.8	78	31.7	82	38.8
85	66	21.3	72	23.6	76	29.6	79	32.6	83	40.0
90	68	21.9	74	24.5	77	30.6	80	33.5	84	41.7
95	69	22.5	75	25.5	78	31.3	81	34.4	85	42.5
100	70	23.1	76	26.4	79	32.1	82	35.3	86	43.7

Rad = feet GPM = gallons per minute = Pressure regulation = Nozzles not recommended at this pressure



Model 656



Model 658

650 SERIES NOZZLE PERFORMANCE — METRIC

BASE PRESSURE		NOZZLE SET 54			NOZZLE SET 55			NOZZLE SET 56			NOZZLE SET 57			NOZZLE SET 58			NOZZLE SET 59		
kg/cm²	kPa	Rad	l/mn	m³/hr	Rad	l/mn	m³/hr	Rad	l/mn	m³/hr	Rad	l/mn	m³/hr	Rad	l/mn	m³/hr	Rad	l/mn	m³/hr
3.5	345.0	17.1	49.2	3.0	18.5	62.1	3.7	19.5	67.4	4.0	19.8	84.8	5.1	20.1	93.5	5.6	20.4	108.6	6.5
4.0	389.4	17.1	52.1	3.1	19.0	65.8	3.9	19.9	71.7	4.3	20.5	90.3	5.5	20.8	98.8	6.0	21.9	117.8	7.1
4.5	443.6	17.5	55.5	3.3	19.1	70.3	4.2	20.7	77.0	4.7	21.7	98.1	5.9	22.1	105.2	6.3	23.7	132.5	8.0
4.6	448.5	17.5	56.0	3.4	19.2	70.8	4.2	20.7	77.2	4.6	21.7	98.8	5.9	22.3	106.4	6.4	23.8	132.1	7.9
5.0	492.9	17.7	58.9	3.5	19.6	74.1	4.4	21.1	80.8	4.9	22.1	103.2	6.2	23.0	113.5	6.8	24.6	139.8	8.4
5.5	537.2	17.8	61.4	3.7	19.7	77.1	4.6	21.6	84.8	5.1	22.8	107.7	6.4	23.5	117.7	7.0	25.0	145.1	8.7
5.6	552.0	18.0	62.1	3.7	19.8	78.3	4.7	21.7	85.5	5.1	22.9	109.0	6.5	23.8	120.0	7.2	25.0	146.9	8.8
6.0	586.5	18.3	64.3	3.9	20.1	80.6	4.8	22.0	89.3	5.4	23.2	112.0	6.7	24.1	126.6	7.4	25.3	151.4	9.1
6.5	640.7	18.4	67.4	4.1	20.9	84.3	5.1	22.8	94.6	5.7	23.7	117.9	7.1	24.7	129.1	7.7	25.9	161.0	9.7
7.0	690.0	18.6	70.4	4.2	21.4	87.4	5.2	23.2	99.9	6.0	24.1	121.5	7.3	25.0	133.6	8.0	26.2	165.4	9.9

kPa = kilo Pascals Rad = meters l/mn = liters per minute m³/hr - cubic meters per hour = Pressure regulation = Nozzles not recommended at this pressure



670 Series Specifications

- ▶ Radius: 70'-102'
- ▶ Flow rate: 31.9-66.8 GPM
- ▶ Maximum pressure: 150 PSI
- ▶ Trajectory: 25°
- ▶ 1½" female-threaded inlet
- ▶ Full-circle
- ▶ Rubber cover kit option:
Part No. 670-00 (flat flange),
670-01 (round flange)
- ▶ Dimensions:
 - Pop-up height: 1.25"
 - Pop-up height to nozzle: 1"
 - Body height: 11"



Specifying Information

674 X X XX X

Body Thread	Valve Type	Nozzle	Pressure Regulation*
0—NPT 5—BSP	1—Normally Open Hydraulic 2—Check-O-Matic 6—Electric 8—Normally Closed Hydraulic	70 71 72 73 74	6—65 PSI 8—80 PSI 1—100 PSI

For Example:
When specifying a 670 Series Sprinkler with NPT threads, #74 nozzle, an electric valve and pressure regulation at 80 PSI, you would specify:

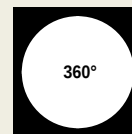
674-06-748

* Electric and normally closed models only.

670 SERIES NOZZLE PERFORMANCE — U.S.

BASE PRES.	NOZZLE SET 70		NOZZLE SET 71		NOZZLE SET 72		NOZZLE SET 73		NOZZLE SET 74	
PSI	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM	Rad	GPM
50	70	31.9	70	34.9	71	38.7	72	41.5	72	44.4
55	73	33.6	73	36.9	75	41.2	76	44.6	77	48.7
60	76	35.5	78	39.5	79	43.7	80	47.8	81	53.0
65	78	36.9	80	41.1	83	46.3	84	51.0	86	57.5
70	80	38.4	82	42.7	85	47.9	86	52.6	89	58.2
75	82	39.7	83	44.1	87	49.4	89	54.5	91	58.9
80	84	41.2	86	45.6	89	51.0	92	55.3	94	59.6
85	85	42.5	86	47.0	91	52.6	94	57.9	96	61.4
90	86	43.8	87	48.5	92	54.5	95	59.8	99	63.4
95	87	45.0	89	49.8	94	55.7	97	61.2	100	65.0
100	88	46.2	90	51.2	95	57.3	98	62.8	102	66.8

Rad = feet GPM = gallons per minute = Pressure regulation = Nozzles not recommended at this pressure



Model 674

670 SERIES NOZZLE PERFORMANCE — METRIC

BASE PRESSURE		NOZZLE SET 70			NOZZLE SET 71			NOZZLE SET 72			NOZZLE SET 73			NOZZLE SET 74		
kg/cm²	kPa	Rad	l/mn	m³/hr	Rad	l/mn	m³/hr	Rad	l/mn	m³/hr	Rad	l/mn	m³/hr	Rad	l/mn	m³/hr
3.5	345.0	21.4	120.7	7.2	21.4	132.1	7.9	21.7	146.5	8.8	22.0	157.1	9.4	22.0	168.1	10.1
4.0	389.4	22.5	128.7	7.7	22.5	141.5	8.5	23.1	157.9	9.5	23.4	171.1	10.2	23.8	186.7	11.2
4.5	443.6	23.7	139.0	8.4	24.3	154.8	9.3	24.7	171.4	10.3	25.1	187.8	11.3	25.5	207.9	12.4
4.6	448.5	23.8	139.7	8.4	24.4	155.6	9.3	25.3	175.2	10.5	25.6	193.0	11.6	26.2	217.6	13.1
5.0	492.9	24.4	145.3	8.7	25.0	161.6	9.7	26.1	181.3	10.9	26.2	199.1	11.9	27.1	220.3	13.2
5.5	537.2	25.0	150.3	9.0	25.3	166.9	10.0	26.5	187.0	11.2	27.1	206.3	12.4	27.8	222.9	13.4
5.6	552.0	25.6	155.9	9.4	26.2	172.6	10.4	27.1	193.0	11.6	28.1	209.3	12.6	28.7	225.6	13.5
6.0	586.5	25.9	160.9	9.7	26.7	177.9	10.7	27.8	199.1	11.9	28.7	219.2	13.2	29.3	232.4	13.9
6.5	640.7	26.2	165.8	9.9	27.4	183.6	11.0	28.1	206.3	12.4	29.0	226.3	13.6	30.2	240.0	14.4
7.0	690.0	26.8	174.9	10.5	27.7	193.8	11.6	29.0	216.9	13.0	29.9	237.7	14.3	31.1	252.8	15.2

kPa = kilo Pascals Rad = meters l/mn = liters per minute m³/hr = cubic meters per hour
= Pressure regulation models = Nozzles not recommended at this pressure

600 SERIES SPECIALTY SPRINKLERS



690 Series Specifications

- ▶ Radius: 73'-108'
- ▶ Flow rate: 40.5-82.2 GPM
- ▶ Maximum pressure: 150 PSI
- ▶ Trajectory: 25°
- ▶ 1½" female-threaded inlet
- ▶ Nine arc selections:
 - 90°, 150°, 165°, 180°, 195°, 210°
 - 360° fixed arcs
 - 60°/120° full-circle, two-speed
 - 180°/180° full-circle, two-speed
 (Two-speed models run at half speed in non-overlap areas to provide balanced water application.)
- ▶ Rubber cover kit option:
Part No. 690-01



Specifying Information

69 X OX XX X				
Arc	Valve Type	Nozzle	Pressure Regulation*	
1—90°	A—150°	1—Normally Open Hydraulic	90	8—80 PSI
2—180°	B—165°	2—Check-O-Matic	91	1—100 PSI
4—Full-Circle	C—195°	6—Electric	92	
6—Full-Circle, 2-Speed (60°/120°)	D—210°	8—Normally Closed Hydraulic		
8—Full-Circle, 2-Speed (180°/180°)				
For Example: When specifying a 690 Series Sprinkler with a 180° arc, an electric valve, #91 nozzle and pressure regulation at 80 PSI, you would specify: 692-06-918				

* Electric and normally closed models only.

690 SERIES NOZZLE PERFORMANCE — U.S.

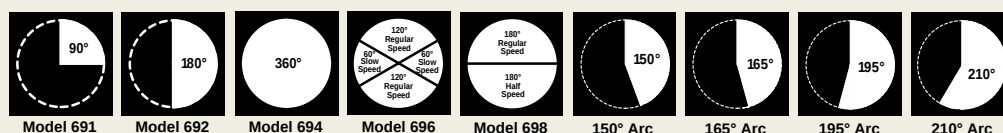
BASE PRES.	NOZZLE SET 90		NOZZLE SET 91		NOZZLE SET 92	
	Rad	GPM	Rad	GPM	Rad	GPM
50	73	40.5	84	50.7	88	62.3
55	75	42.8	86	52.2	90	63.0
60	78	45.1	87	53.7	92	63.6
65	80	47.4	89	56.3	94	64.3
70	82	48.6	91	57.2	96	67.5
75	85	49.8	94	59.2	98	70.7
80	87	51.0	96	61.2	100	74.0
85	88	52.5	97	64.3	102	76.1
90	89	54.1	98	67.3	105	78.0
95	89	55.6	99	70.4	106	80.2
100	90	57.1	100	73.4	108	82.2

Rad = feet GPM = gallons per minute
 = Pressure regulation models
 = Nozzles not recommended at this pressure

690 SERIES NOZZLE PERFORMANCE — METRIC

BASE PRESSURE		NOZZLE SET 90			NOZZLE SET 91			NOZZLE SET 92		
kg/cm²	kPa	Rad	l/mn	m³/hr	Rad	l/mn	m³/hr	Rad	l/mn	m³/hr
3.5	345.0	22.3	153.3	9.2	25.6	191.9	11.5	26.8	235.8	14.2
4.0	389.4	23.0	163.8	9.8	26.3	200.1	12.0	27.7	240.7	14.4
4.5	443.6	24.2	176.1	10.5	26.9	210.7	12.6	28.6	247.2	14.8
4.6	448.5	24.4	179.4	10.8	27.2	213.1	12.8	28.7	243.4	14.6
5.0	492.9	25.1	185.8	11.1	27.9	219.0	13.1	29.5	257.7	15.4
5.5	537.2	26.2	192.1	11.5	29.0	229.0	13.7	30.2	271.9	16.4
5.6	552.0	26.5	193.0	11.6	29.3	231.6	13.9	30.5	280.1	16.8
6.0	586.5	26.8	198.7	11.9	29.6	243.4	14.6	31.1	288.0	17.3
6.5	640.7	27.5	208.4	12.5	30.2	259.6	15.6	32.3	299.5	18.0
7.0	690.0	27.5	216.1	13.0	30.5	277.8	16.7	32.9	311.1	18.7

kPa = kilo Pascals Rad = meters
 l/mn = liters per minute m³/hr = cubic meters per hour
 = Pressure regulation models
 = Nozzles not recommended at this pressure



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