

TORO

INFINITY® 34/54 SERIES GOLF ROTORS



The INFINITY 34/54 is Toro's Premium full-circle golf sprinkler series with SMART ACCESS®. The dual trajectory main nozzle provides exceptional nozzle performance at the 25° standard angle position and great performance in windy applications at the 15° low angle position. And the consistency of the constant velocity full circle drive ensures even water application across the coverage area every time you water.

FEATURES & BENEFITS

Industry's Largest Nozzle Selection

Nozzles from 52' to 100'. Color coded for easy flow and radius identification and threaded from the front to simplify servicing.

Constant Velocity Full Circle Drive

Ensures consistent rotation speeds when matched with station run times for even water application across the coverage area every time you water.

Radius Reduction Screw for Fine Tuning

In combination with main nozzle sizing and trajectory adjustment the radius reduction screw can effectively reduce the sprinkler throw down to 30'.

Five Activation Types

- ✓ Standard solenoid
- ✓ Spike Guard™ solenoid
- ✓ Nickel plated Spike Guard solenoid
- ✓ DC Latching Solenoid (DCLS)
- ✓ Integrated LSM module with DCLS
- ✓ Available on all INFINITY models!



- ✓ Eliminates sprinkler interference
- ✓ Enhances course appearance

165

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224

183

152

INFINITY® SERIES DISTANCE MARKERS

- Set your course apart with Toro's unique, customizable distance markers
- White (118-6234) and Yellow (118-6235) color options provide excellent visibility
 - Customizable with any graphic image
 - Multiple number and orientation options available
 - Any font style
 - Easy snap-in installation into any INFINITY golf sprinkler

Smart Access®

Provides top accessibility to all critical components.

- ✓ No digging or unsightly turf repair scars
- ✓ No buried wire splices or ground faults
- ✓ Pilot valve removable with water "ON"
- ✓ Lower long term cost of ownership
- ✓ Customizable marker
- ✓ Replaceable cover if damaged
- ✓ Increased labor efficiency



Dual Trajectory - 25° or 15°
Provides two selections for the main nozzle trajectory; the 25 degree setting provides maximum distance of throw and the 15 degree setting provides improved wind performance, radius reduction and obstacle avoidance.

INF34 CONVERSION UPGRADES

MODELS	DESCRIPTION
• INF34-3134	INF34 w/31-34 Nozzles (33 Nozzle Installed)
• INF34-3537	INF34 w/35-37 Nozzles (35 Nozzle Installed)
• INF34-3134E	INF34 w/31-34 Nozzles (33 Nozzle Installed), Effluent
• INF34-3537	INF34 w/35-37 Nozzles (35 Nozzle Installed), Effluent



INF54 CONVERSION UPGRADES

MODELS	DESCRIPTION
• INF54-5154	INF54 w/51-54 Nozzles (53 Nozzle Installed)
• INF54-5558	INF54 w/55-58 Nozzles (55 Nozzle Installed)
• INF54-59	INF54 w/59 Nozzle Installed
• INF54-5154E	INF54 w/51-54 Nozzles (53 Nozzle Installed), Effluent
• INF54-5558E	INF54 w/55-58 Nozzles (55 Nozzle Installed), Effluent
• INF54-59E	INF54 w/59 Nozzle Installed Effluent
• 102-5011	690 Adapter allows you to upgrade any 690 with FLX54 conversions
• 102-0950	Required to upgrade all 1.5" Series Sprinklers (650, 670, 680, 750, and 780)



SPECIFICATIONS

Features

- Dual Trajectory adjustment on main nozzle - 25° or 15°
- Constant velocity full circle drive
- Radius reduction screw can effectively reduce the sprinkler throw down to 30'

Operational

- Inlet:
 - INF34: 1" ACME
 - INF54: 1½" ACME
- Radius:
 - INF34: 52' - 91'
 - INF54: 52' - 99'
- Flow Rate:
 - INF34: 13.0 - 46.9 gpm
 - INF54: 13.2 - 61.8 gpm
- Precipitation Rates:
 - INF34: Minimum - .33"/hr; Maximum - .55"/hr
 - INF54: Minimum - .33"/hr; Maximum - .61"/hr
- Pilot Valve: Selectable at 50, 65, 80 and 100 psi
- Recommended Operating Pressure Range: 65-100 psi (maximum-150 psi and minimum-40 psi)
- Activation types - Electric Valve-in-Head:
 - Standard Solenoid:
 - 24 VAC, 50/60 Hz
 - Inrush: 0.30 A
 - Holding 0.20 A
 - Spike Guard Solenoid:
 - 24 VAC, 50/60 Hz
 - Inrush: 0.12 A
 - Holding 0.10 A
 - Nickel-Plated Spike Guard Solenoid:
 - 24 VAC, 50/60 Hz
 - Inrush: 0.12 A
 - Holding 0.10 A
 - DC Latching Solenoid (DCLS):
 - Momentary low voltage pulse
 - Integrated Lynx Smart Module w/DCLS:
 - Momentary low voltage pulse
- Trajectory: 25° or 15°

Dimensions

- SMART ACCESS® Cover and Compartment Diameter:
 - INF34: 7 5/8"
 - INF54: 7 5/8"
- Body height:
 - INF34: 10"
 - INF54: 11 3/8"
- Weight:
 - INF34: 4.22 lbs.
 - INF54: 5.04 lbs.
- Weight - Integrated with Lynx Smart Module:
 - INF35: 4.95 lbs.
 - INF55: 5.71 lbs.
- Pop-up height to nozzle: 3/4"

Warranty

- Three years
- Five years when installed with Toro Swing Joints

Specifying Information—INFINITY 34 & INFINITY 54

INFX4-XXX-X-X					
Body Inlet	Arc	Nozzle	Pressure Regulation*	Activation Type	Optional
INFX	4	XX	X	X	X
3-1" 5-1½"	4—Full Circle	INF34—31, 32, 33, 34, 35, 36, 37 INF54—51, 52, 53, 54, 55, 56, 57, 58, 59	6—65 psi 8—80 psi 1—100 psi	1—Standard Solenoid 2—Spike Guard™ Solenoid 3—Nickel-plated Spike Guard Solenoid 4—DC Latching Solenoid (DCLS) 6—Integrated Lynx Smart Module w/DCLS	7—Effluent

Example: When specifying an INF34 Series Sprinkler with #34 nozzle, pressure regulation at 65 psi and Spike Guard you would specify: **INF34-346-2**

Note: Not all models available.

* All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.



INFINITY® 34/54 SERIES GOLF ROTORS

INFINITY 34 SERIES PERFORMANCE CHART—25°

Front Nozzle Positions	Nozzle Set 31 (Yellow)		Nozzle Set 32 (Blue)		Nozzle Set 33 (Brown)		Nozzle Set 34 (Orange)		Nozzle Set 35 (Green)		Nozzle Set 36 (Gray)		Nozzle Set 37 (Black)			
	102-0725		102-7001		102-0727		102-7002		102-6908		102-0730		102-4261			
	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Brown
	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-6883	
Back Nozzle Positions																
	Yellow	Blue	Yellow	Orange	Yellow	Red	Yellow	Beige	Yellow	Beige	Yellow	Red	Yellow	Gray		
	102-6937	102-2925	102-6937	102-2926	102-6937	102-2928	102-6937	102-2929	102-6937	102-2929	102-6937	102-6944	102-6937	102-6945		
psi	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm		
50	57	13.0	58	15.5	64	21.9	68	24.4	—	—	—	—	—	—		
65	58	14.6	60	18.0	68	24.4	72	28.1	76	32.2	—	—	—	—		
80	60	16.2	63	20.5	72	26.9	76	31.1	80	35.6	83	38.2	85	41.5		
100	62	17.9	66	23.4	75	29.8	79	34.9	84	49.3	88	43.4	91	46.9		

INFINITY 34 SERIES PERFORMANCE CHART—15°

psi	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm
50	52	12.9	53	15.6	60	21.7	62	25.5	—	—	—	—	—	—
65	53	14.4	54	17.1	61	24.2	64	28.0	67	32.1	—	—	—	—
80	56	16.0	57	19.0	65	26.6	69	31.0	73	35.5	76	38.0	77	41.3
100	57	17.5	59	20.5	67	29.5	71	33.9	75	38.4	80	43.1	81	46.8
Stator	102-6929 Blue						102-1940 White							
Conversions	INF34-3134						INF34-3537							

■ Not recommended at these pressures. Radius shown in feet.
 Toro recommends the use of a 1¼" swing joint at flows over 25-gpm (95-LPM). Sprinkler radius data collected in Toro's zero wind test facility per ASAE standard S398.1.
 Actual site conditions must be considered when selecting the appropriate nozzle.
 All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.

INFINITY 34 NOZZLE APEX

Pressure	Nozzle	Apex at 15°	Apex at 25°
65 psi	31	6' @ 51'	13' @ 54'
	32	6' @ 51'	11' @ 64'
	33	7' @ 59'	13' @ 68'
	34	8' @ 63'	15' @ 74'
	35	9' @ 66'	15' @ 76'
80 psi	36	8' @ 75'	18' @ 83'
	37	9' @ 74'	19' @ 82'

INFINITY® 34/54 SERIES GOLF ROTORS



INFINITY 54 SERIES PERFORMANCE CHART—25°

Front Nozzle Positions	Nozzle Set 51 (Yellow)		Nozzle Set 52 (Blue)		Nozzle Set 53 (Brown)		Nozzle Set 54 (Orange)		Nozzle Set 55 (Green)		Nozzle Set 56 (Gray)		Nozzle Set 57 (Black)		Nozzle Set 58 (Red)		Nozzle Set 59 (Beige)			
	102-0725		102-7001		102-0727		102-7002		102-6908		102-0730		102-4261		102-4260		102-4259			
	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Brown	Red Plug	Brown	Red Plug	Red Plug	Red Plug
102-4335		102-4335		102-4335		102-4335		102-4335		102-4335		102-4335		102-6883		102-6883		102-4335		
Back Nozzle Positions																				
	102-6937		102-2925		102-6937		102-2926		102-6937		102-2928		102-6937		102-2929		102-6937		102-2929	
	Yellow	Blue	Yellow	Orange	Yellow	Red	Yellow	Beige	Yellow	Beige	Yellow	Red	Yellow	Gray	Yellow	Gray	Yellow	Gray	Yellow	Gray
psi	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm
50	58	13.2	59	15.7	64	22.0	70	26.2	—	—	—	—	—	—	—	—	—	—	—	—
65	60	14.8	61	17.5	68	24.8	74	29.3	79	34.2	—	—	—	—	—	—	—	—	—	—
80	61	16.4	64	20.0	72	27.6	78	32.6	83	38.0	85	40.7	87	44.9	91	50.2	96	55.6	99	61.8
100	63	18.1	67	23.6	75	30.4	81	36.7	87	42.5	90	45.8	93	50.2	95	55.4	99	61.8	—	—

INFINITY 54 SERIES PERFORMANCE CHART—15°

psi	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm	Radius	gpm
50	52	13.2	53	15.6	61	22.0	65	26.0	—	—	—	—	—	—	—	—	—	—
65	53	14.8	54	17.1	63	24.8	67	29.2	69	34.1	—	—	—	—	—	—	—	—
80	56	16.4	58	19.0	68	27.6	72	32.5	75	37.8	79	40.4	81	44.6	85	49.9	87	55.3
100	58	18.1	60	20.5	71	30.4	75	36.4	79	42.3	84	45.5	87	49.9	89	55.1	94	61.5
Stator	102-6929 Blue								102-1940 White								102-1941 White	
Conversions	INF54-5154								INF54-5558								INF54-59	

■ Not recommended at these pressures. Radius shown in feet.
 Toro recommends the use of a 1¼" swing joint at flows over 25-gpm (95-LPM). Sprinkler radius data collected in Toro's zero wind test facility per ASAE standard S398.1. Actual site conditions must be considered when selecting the appropriate nozzle. All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.

INFINITY 54 NOZZLE APEX

Pressure	Nozzle	Apex at 15°	Apex at 25°
65 psi	51	6' @ 51'	13' @ 54'
	52	6' @ 51'	11' @ 64'
	53	7' @ 59'	13' @ 68'
	54	8' @ 63'	15' @ 74'
	55	9' @ 66'	15' @ 76'
80 psi	56	8' @ 75'	18' @ 83'
	57	9' @ 74'	19' @ 82'
	58	10' @ 82'	18' @ 87'
	59	11' @ 81'	21' @ 91'



Main Nozzle Adapter
 A wide assortment of intermediate and inner nozzles for use in the main nozzle adapter and back nozzle position provide unmatched nozzle flexibility.