

TORO

Count on it.

690 Series

GOLF ROTORS

For nearly 40 years the 690 Series has set the standard for durability and reliability in both golf and commercial applications. Extremely rugged, the 690 series is constructed of brass, stainless steel and engineering plastics for unmatched performance in the most demanding environments.



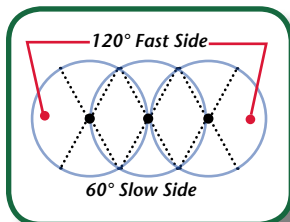
Water Management Highlight

Two 2-speed models provide improved performance and lower the system cost for larger radius applications. 696 models for single row applications and 698 models for double row applications provide a slower speed in the non-overlap areas and a faster speed in the overlap areas to provide a more balanced precipitation rate than traditional full circle sprinklers in these application.



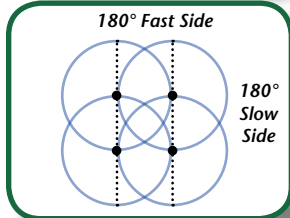
690

Features & Benefits



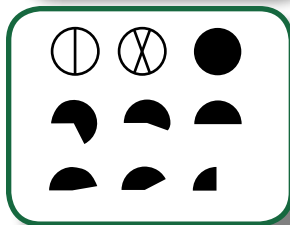
696 2-SPEED MODELS

Used in single row applications these sprinklers operate at a slower speed over the 60 degree non-overlap area and a faster speed over the 120 degree overlapped areas to provide a balanced application rate.



698 2-SPEED MODELS

Used in double row applications these sprinklers operate at a slower speed over the 180 degree non-overlap area and a faster speed over the 180 degree overlapped areas to provide a balanced application rate.



FIXED ARC DRIVES

Nine fixed arc drive assemblies ensure positive retention of the coverage area with no arc drift.



ARTIFICIAL PLAYING SURFACES

Radius and flow capabilities are perfect for cooling and rinsing artificial playing surfaces such as football field.

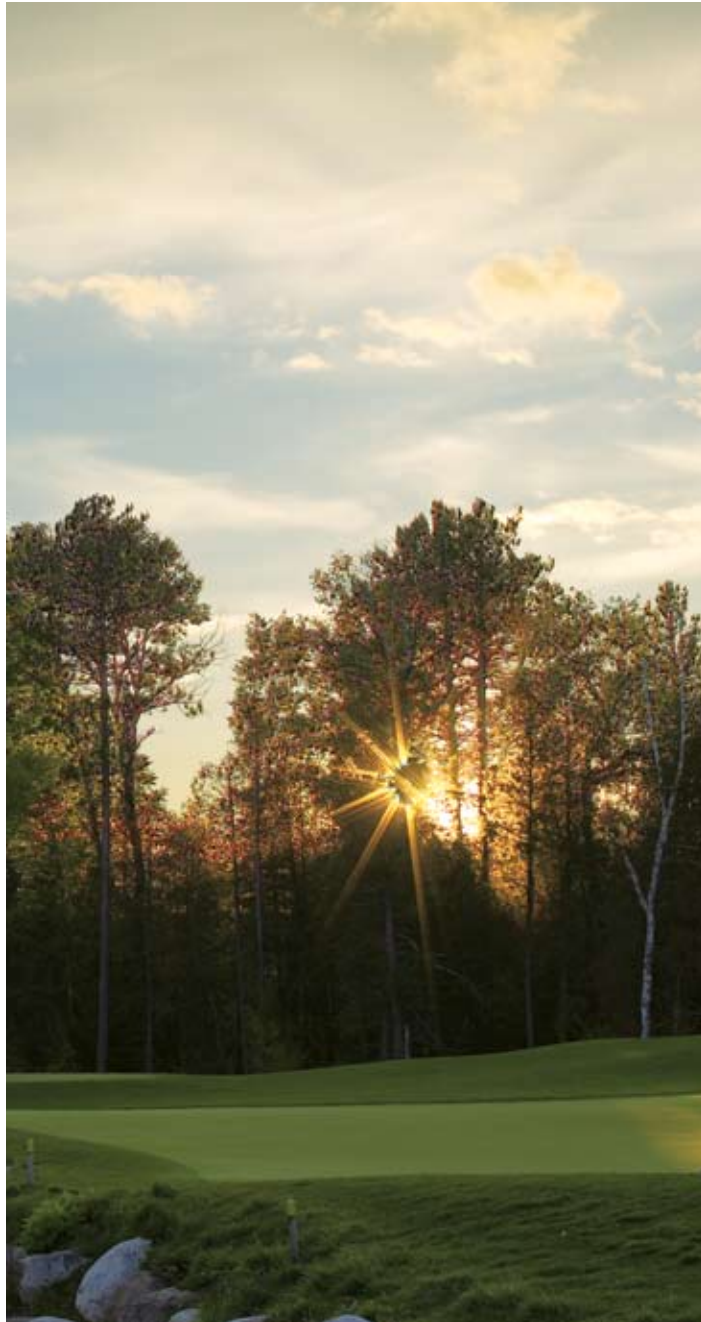


ELECTRIC VALVE IN HEAD MODELS

Electric valve in head models provide individual head control that ensures run times can match differing soil, turf and terrain watering requirements, pressure regulation to ensure all nozzles perform at the same pressure and manual ON-OFF-Auto control at the head.



690 Series



Operating Specifications

- Inlet: 1 1/2" NPT
- Radius: 87' – 108'
- Flow Rate: 51.0 – 82.2 GPM
- Recommended Operating Pressure Range: 80-100 psi
Maximum pressure: 150 psi
Minimum pressure: 40 psi
- Electric Valve-In-Head Solenoid: 24V ac, 50/60 Hz
- Inrush: 60 Hz, 0.30 Amps
- Holding: 60 Hz, 0.20 Amps
- Check-O-Matic: Maintains 37' of elevation

Dimensions

- Body diameter: 10"
- Body height: 16"
- Weight: 5.6 lbs.
- Pop-up height to nozzle: 3/4"

Additional Features

- Manual control at the sprinkler, On-Off-Auto (electric)
- Time-proven, gear-drive design
- All internal components serviceable from the top of the sprinkler
- Durable engineering plastic and stainless steel construction
- Nine arc selections

Warranty

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

Toro® Swing Joints



Specifying Information—690

690 Series Performance Chart

Base Pressure psi	Nozzle Set 90		Nozzle Set 91		Nozzle Set 92	
	Radius	GPM	Radius	GPM	Radius	GPM
80	87	51.0	96	61.2	100	74.0
100	90	57.1	100	73.5	108	82.2

Radius shown in feet.
Sprinkler radius of throw per ASAE standard S398.1.

69X-0X-XXX				
Arc		Valve-In-Head Type	Nozzle	Pressure Regulation*
69X		0X	XX	X
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—Full-circle, 2-speed (180°–180°)				
Example: When specifying a 690 Series Sprinkler with a 180° arc, electric valve-in-head, #91 nozzle, and pressure regulation at 80 psi, you would specify: 692-06-918				

*Electric models only.