690 SERIES
ROTORS

THE STANDARD FOR **DURABILITY AND RELIABILITY**

FEATURES

For nearly 50 years the 690 Series has set the standard for durability and reliability in golf applications. Two 2-speed models 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 which lowers system costs.

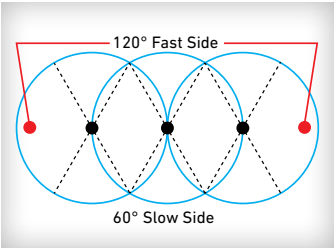
- **696 2-Speed Models**
  Used in single row applications these sprinklers operate at a slower speed over the 60 degree non-overlap area and a faster speed over the 120 degree overlapped areas to provide a balanced application rate.
- **698 2-Speed Models**
  Used in double row applications these sprinklers 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.
- **Artificial Playing Surfaces**
  Radius and flow capabilities are perfect for cooling and rinsing artificial playing surfaces.
- **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 Rotors

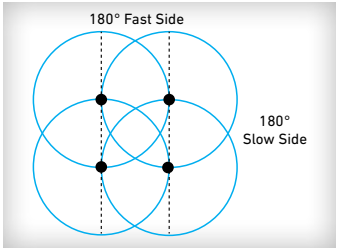
ACCESSORIES AND UPGRADES

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)

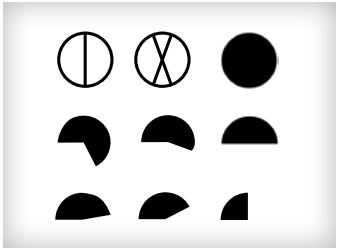
ADDITIONAL FEATURES



696 2-SPEED MODELS
Used in single row applications to provide a balanced application rate.



698 2-SPEED MODELS
Used in double row applications to provide a balanced application rate.



NINE FIXED ARC DRIVE ASSEMBLIES
Ensure positive retention of the coverage area with no arc drift.

SPECIFICATIONS

OPERATING SPECIFICATIONS
- Inlet: 3,8cm (1.5") NPT
- Radius: 26,5 – 32,9m (87' – 108')
- Flow Rate: 193,0 – 311,2 LPM (51,0 – 82,2 gpm)
- Recommended Operating Pressure Range:
  - 5,5 – 7,0 bar (80 – 100 psi)
  - Maximum pressure: 10,3 bar (150 psi)
  - Minimum pressure: 2,8 bar (40 psi)
- Electric Valve-In-Head Solenoid: 24VAC, 50/60 Hz
  - Inrush: 60 Hz; 0,30 Amps
  - Holding: 60 Hz; 0,20 Amps
- Check-O-Matic: Maintains 11,2m (37') of elevation

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

DIMENSIONS
- Body diameter: 25,4cm (10")
- Body height: 40,5cm (16")
- Weight: 2,5 kg (5.6 lbs)
- Pop-up height to nozzle: 20mm (0.75")

WARRANTY
- Two years; Five years when installed with Toro Swing Joints

PERFORMANCE DATA

690 Series Performance Chart—(Metric)

Base Pressure			Nozzle Set 90		Nozzle Set 91		Nozzle Set 92	
bar	kPa	Kg/cm²	Radius	LPM	Radius	LPM	Radius	LPM
5,5	550	5,61	26,5	193,0	29,3	231,3	30,5	280,1
6,9	690	7,04	27,4	216,1	30,5	278,2	32,9	311,2

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

690 Series Performance Chart—(U.S.)

Base Pressure	Nozzle Set 90		Nozzle Set 91		Nozzle Set 92	
psi	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.

690 SERIES SPECIFYING INFORMATION

69X-0X-XXX

Arc	*Valve-In-Head Type*	*Nozzle*	*Pressure Regulation**
69X	**0X**	**XX**	**X**
1—90° 2—180° 4—Full-circle 6—Full-circle, 2-speed (60°–120°) 8—Full-circle, 2-speed (180°–180°) A—150° B—165° C—195° D—210°	1—Normally Open Hydraulic 2—Check-O-Matic 6—Electric	90 91 92	8—5,5 bar (80 psi) 1—6,9 bar (100 psi)

Example: When specifying a 690 Series Sprinkler with a 180° arc, electric valve-in-head, #91 nozzle, and pressure regulation at 5,5 bar (80 psi), you would specify: **692-06-918**

**Electric models only.*

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