

# 690 Series

- **Inlet Size: 1½" (37mm) NPT**
- **Radius: 87'-108' (26,5-33,0m)**
- **Operating Pressure Range: 80-150 PSI (5,5-10,3 Bar)**

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



## Features & Benefits

### Artificial Playing Surfaces

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

### 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.

### Fixed Arc Drives

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

### Balanced Application Rate

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

## Specifications

### Dimensions

- Body diameter: 10" (254mm)
- Body height: 16" (405mm)

### Operating Specifications

- Radius: 87' – 108' (26,5-33,0m)
- Flow Rate: 51.0 – 82.2 GPM (193-311 LPM)
- Operating Pressure Range: 80-150 psi (5,5-10,3 Bar)
- Pop-up height to nozzle: ¾" (20mm)
- Inlet: 1 ½" NPT (38mm)
- Check-O-Matic: Maintains 37' (11,2m) of elevation
- Electric Valve-in-head Solenoid: 24V ac, 50/60 Hz
  - Inrush: 60 Hz, 0.30 amps
  - Holding: 60 Hz, 0.20 amps
- All internal components serviceable from the top

### Warranty

- Three years

### 690 Series Model List

Model	Description
690	90° Part-circle sprinkler
691	180° Part-circle sprinkler
694	Full-circle sprinkler
696	2-speed (60°-120°) sprinkler
698	2-speed (180°-180°) sprinkler

### 690 Series Performance Data—Metric

Base Pressure			Nozzle Set 90				Nozzle Set 91				Nozzle Set 92			
Bar	kPa	Kg/cm <sup>2</sup>	Rad.	LPM	Prec. Rate* <sup>l</sup>		Rad.	LPM	Prec. Rate* <sup>l</sup>		Rad.	LPM	Prec. Rate* <sup>l</sup>	
					▲	■			▲	■			▲	■
5,5	550	5,61	26,5	193	19,0	16,5	29,3	232	18,7	16,2	30,5	280	20,8	18,0
6,9	690	7,04	27,4	216	19,9	17,2	30,5	278	20,7	17,9	32,9	311	19,9	17,2

### Specifying Information—690

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

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

\*Electric models only.

# Rotor Accessories

## Effluent Water Indicators



- 300 Series**  
89-7853
- Lavender cover for 300 Series Omni nozzle
  - Use with part no. 300-15 (Omni Nozzle)



- 89-7854
- Lavender cover for 300 Series Omni nozzle high-pop models
  - Use with part no. 300-25 (Omni Nozzle)

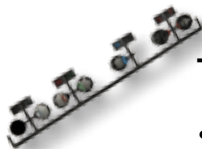


- 89-7889
- Lavender plug for 300 Series with fixed-radius nozzles

## Nozzles



- Super 800**  
102-3787
- Nozzle tree



- T7**  
102-2633
- Nozzle tree



- T5 Nozzle Tree Kit**  
102-7712
- 20 nozzle trees per bag

## Installation/Adjustment Tools



- Mini 8 & S800 Series**  
102-2024
- Adjustment tool for Mini 8 and Super 800 Series models



- T5 Rotor Tool Kit**  
102-7715
- 20 tools per bag



- T5 Rotor Check Valve Kit**  
102-7714
- 20 valve seals per bag



- T7 Rotor Tool Kit**  
102-6527
- 20 tools per bag



- 640 Series**  
995-07
- VIH pliers for 640 Series models



- 995-08
- Valve removal tool for 640 Series models
  - Designed for quick removal of valve assembly from body



- 995-42
- Canister removal tool for 640 Series models



- 996-51
- Cap removal tool for 640 Series models



- 995-37
- Seal installation tool for 640 Series models

- 995-35
- Valve insertion tool for 640 Series models
  - Designed for accurate one-step insertion of valve assembly and snap ring