

690 Series

Radius: 87'–108'
Flow rate: 51.0–82.2 GPM
Nine arc selections

Specifications

Radius:	87'–108' (26,5–32,9m)
Flow rate:	51.0–82.2 GPM (192,8–310,7 LPM)
Inlet:	1½" NPT
Dimensions:	Body height: 16" (405mm)
Nine arc selections:	90°, 150°, 165°, 180°, 195°, 210°, 360°, 60°/120° 2-speed and 180°/180° 2-speed
Rubber cover kit:	Optional, Part No. 690-01
Recommended operating pressure range:	80–100 psi (5,5,–6,9 Bar)
Maximum pressure:	150 psi (10,3 Bar)
Minimum pressure:	40 psi (2,8 Bar)
Electric Valve-In-Head Solenoid:	24 V ac, 50/60 Hz Inrush: 60 Hz, 0.30 Amps Holding: 60 Hz, 0.20 Amps
Check-O-Matic:	Maintains 37' (11,2m) of elevation



Features

- Two standard pressure-regulation settings available to ensure consistently accurate nozzle performance:
 - 80 psi and 100 psi (5,5 Bar and 6,9 Bar) (electric)
- Three body styles/activation types available to fit every application:
 - Electric Valve-In-Head
 - Normally Open Hydraulic Valve-In-Head
 - Check-O-Matic
- Manual control at the sprinkler, On-Off-Auto (electric)
- Bowl-vented discharge (atmospheric) minimizes the differential pressure required for regulation and ensures positive valve closure (electric)
- Time-proven, gear-drive design
- All internal components serviceable from the top of the sprinkler
- Durable engineering plastic and stainless steel construction

690 Series Performance Chart—U.S.

Base Pressure	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.*

690 Series Performance Chart—Metric

Base Pressure			Nozzle Set 90		Nozzle Set 91		Nozzle Set 92	
Bar	kPa	Kg/cm ²	Radius	LPM	Radius	LPM	Radius	LPM
5,5	550	5,61	26,5	192,8	29,3	231,3	30,5	279,7
6,9	690	7,04	27,4	215,8	30,5	277,8	32,9	310,7

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

Specifying Information—690

69X-0X-XX-X				
Arc		Valve-In-Head Type	Nozzle	Pressure Regulation*
69X		8X5S	8X5S	8X5S
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.*