

The TORO logo is a red square with the word "TORO" in white, bold, sans-serif capital letters.

690 SERIES ROTORS



For nearly 40 years the 690 Series has set the standard for durability and reliability in professional turf applications. Extremely rugged, the 690 Series is constructed of brass, stainless steel and engineering plastics for unmatched performance in the most demanding environments. The purpose built gear drive mechanism provides durability without heads losing arc alignment. Top of head access saves time and money

FEATURES & BENEFITS

Long Life Gear Drive

Rotation drive gears are vacuum-packed with grease and isolated from water stream for long, trouble-free life.

Manual Override

Allows electric valve-in-head models to be turned on manually or be cancelled out of automatic program.

Positive Spring Retraction

Minimises tampering and accidents by pulling nozzle and cap down out of the way of horses, people and mowers when watering is done. Strong spring discourages vandals.

Rugged Cycloac® Case

Almost indestructible engineering plastic has tremendous impact resistance, won't rust, corrode or disintegrate because of time or water-carried minerals.

Pressure Regulation

For more equal water distribution over large areas. Compensates for large pressure differentials. Regulates pressure to nozzles on electric valve-in-head models.



Check-O-Matic Models

Stops low head drainage in block systems with spring loaded check valve in base of sprinkler.

Valve-in-Head Models

All the advantages of head-by-head control at a much lower cost than valve-under-head installations. Customise watering to fit turf use, topography and soil. Multi-cycle for wind or run-off problems, frost control, dew removal without low-head drainage. Available for hydraulic normally open or 24 volt electric systems. Valve accessible through top of head.

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
- Rubber cover kit option: Part No. 690-01



SPECIFICATIONS

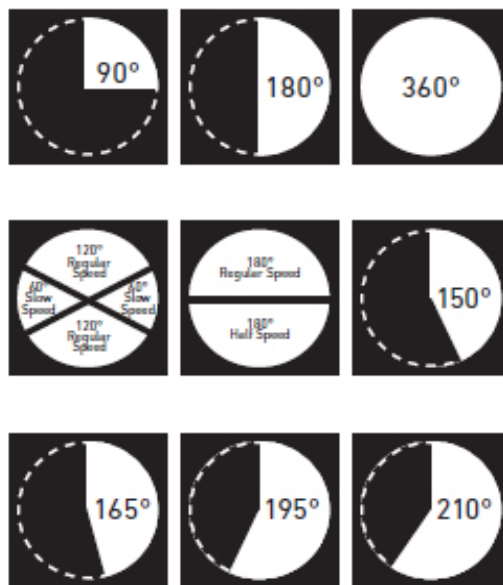
Operational

- Nine arc selections:
 - 90°, 150°, 165°, 180°, 195°, 210°, 360°, fixed arcs
 - 60°/120° full circle, two speed
 - 180°/180° full circle, two speed
(Two speed models run at half speed in non-overlap areas to provide balanced water application.)
- Radius: 26.5 m – 32.9 m
- Flow rate: 193.0 – 311.1 L/m
- Recommended Operating Pressure Range: 550 – 690 kPa
- Maximum pressure: 1035 kPa
- Trajectory: 25°
- 40 mm female threaded inlet

Dimensions

- Pop-up height: 25 mm
- Pop-up height to nozzle: 13 mm
- Body height: 406 mm
- Weight: 2.5 kg

9 Fixed Arc Selections



Nozzle Performance										
Base Pressure		Nozzle Set 90			Nozzle Set 91			Nozzle Set 92		
kPa	psi	Radius (m)	l/m	m3/hr	Radius (m)	l/m	m3/hr	Radius (m)	l/m	m3/hr
550	80	26.5	193.0	11.6	29.3	231.3	13.9	30.5	28.1	16.8
690	100	27.4	216.1	13.0	30.5	278.2	16.7	32.9	311.2	18.7

Ordering Information - 690				
69X-0X-XXX				
Arc	Valve Type	Nozzle	Pressure Regulation*	
69X	0X	XX	X	
1-90°	A-150°	1-Normally Open Hydraulic	8-550kPa (80 psi)	
2-180°	B-165°	2-Check-O-Matic	1-690kPa (100 psi)	
4-Full Circle (60°/120°)	C-195°	6-Electric		
8-Full Circle, 2-Speed (180°/180°)	D-210°			

For example: When specifying a 690 Series sprinkler with 180° arc, an electric valve, #91 nozzle and pressure regulation of 550kPa (80 psi) you would specify: **692-06-918**

*Electric models only