

# Your Fields Have Unique Needs. Toro Can Help You Meet Them.

Whether you manage a professional sports field that hosts some of the world's elite athletes or the baseball diamond at the local park, Toro can help keep your field looking its best with a wide range of class-leading irrigation solutions engineered with professional groundskeepers, contractors, and specifiers in mind. Every field, regardless of size or composition, presents its own unique challenges.



## Natural Turf Fields Require a Balance of Attention to Detail and Consistent Care to Ensure:

**Turf Health** – Maintaining healthy turf that is ready to take center stage on game day in high-use, short recovery window environments.

**Playability** – Safe playing surfaces that ensure player safety, limit potential liability, and help athletes perform at their best.

**Water Use** – Keeping the field in excellent condition while using water efficiently and keeping water costs down.



Irrigation Is An Important Aspect of Preserving the Quality and Playability of Your Synthetic Turf Field, As It Supports:

**Wash Down** – Helps remove and wash away debris, biological matter, and various pathogens to provide a more appealing playing or leisure surface.

**Cool Down** – Significantly reduces surface temperatures in protecting player safety, especially during midday activities and the summer months.

Toro wants to help groundskeepers and field managers keep fields at their best.

That is why Toro is committed to developing innovative irrigation products that water more accurately, more efficiently, more dependably, and more affordably.

Further, Toro provides a complete line of sports field maintenance products that ranges from mowers and sprayers, to aerators and utility vehicles. Whatever your need, Toro has a solution. Solutions designed to help all sports fields be healthier, play safer, and look their best.

## **IRRIGATION SOLUTIONS**

- Control & Turf Monitoring
- Natural & Synthetic Turf Sprinklers
- Valves & Up-stream Fittings

## **SERVICE & SUPPORT**

- Controller Repair
- 24/7 Technical Support
- Product Training
- Field Service

Toro's sprinkler offerings cover the spectrum of what is required to keep your turf fit for purpose and ready for center stage on gameday, whether it be natural or synthetic.

## SYNTHETIC TURF

## NATURAL TURF



## TS170 SERIES ROTORS

Designed for the washing down and cooling of Synthetic Turf fields, and capable of radii that allow it to be installed along the perimeter of the field — not within the playing surface.



## TS120 SERIES IMPACT SPRINKLERS

Capable of meeting the requirements of both Synthetic and Natural Turf fields with low maintenance requirements and VIH control.



## 690 SERIES ROTORS

Tried and true, one of the original long-range rotors capable of meeting the rigors of supporting sports fields of every size and class.



## TS90 SERIES ROTORS

Featuring a
ConstantVelocity drive,
back nozzle,
and patented
TruJectory
adjustment, this
rotor can be
easily tailored
to the specific
needs of your
field.



## T7 SERIES ROTORS

Proven to be durable and dependable, as evidenced in its use across numerous professional baseball and football fields at both the professional and collegiate levels.



## 640 SERIES ROTORS

With installs as far back as 30 years, there is little that can keep this rotor from meeting your expectations cycle after cycle, year after year.



## TS120 Series

Radius: 62' to 125' Up to 121 gpm



TS90 Series Radius: 53' to 95' Up to 62 gpm



### 640 Series

Radius: 47' to 67' Up to 25 gpm

**DID YOU KNOW?** With a radius capability of 177 feet, one TS170 Series sprinkler is capable of covering the entire width of a traditional football field. Only six TS170 sprinklers are needed to cool and wash down an entire field.

According to the Synthetic Turf Council, there are an estimated 12,000 to 13,000 active synthetic turf sports fields in the United States, with another 1,200 to 1,500 new installations each year.\*

According to a 2015 study conducted by Penn State's Center for Sports Surface Research, irrigating Synthetic Turf can reduce the surface temperature by as much as 20°F. Surface temperatures as high as 160°F have been recorded.\*\*

\*Source: Synthetic Turf Council (www.syntheticturfcouncil.org,

\*\*Source: Penn State's Center for Sports Surface Research. June 2015. The Effect of Irrigation on Synthetic Turf Characteristics: Surface Temperature, Soccer Ball Roll, and Traction – Progress Report.



## Model Selection Guide



	TS170 Series	TS120 Series	690 Series	TS90 Series	T7 Series	640 Series
Max Radius	177 ft.	125 ft.	108 ft.	95 ft.	75 ft.	67 ft.
Type(s)	Electric VIH Block Style	Electric VIH Block Style	Electric VIH Block Style	Block Style	Block Style	Hydraulic VIH Block Style
Cover options	Standard Synthetic TurfCup™	Standard Synthetic Cover Natural TurfCup	Standard	Standard Natural TurfCup	Standard	Standard
Inlet	2" NPT	1 ½" NPT	1 ½" NPT	1" NPT	1" NPT	1" NPT
Pop-up Height	3"	4" (Standard) 8.1" (with TurfCup)	2.2"	4"	5"	3.3"
Applications	Synthetic Turf	Synthetic or Natural Turf	Synthetic or Natural Turf	Natural Turf	Natural Turf	Natural Turf
Arc	30-360 Degrees	30-360 Degrees	60-360 Degrees	40-360 Degrees	45-360 Degrees	45-360 Degrees
Trajectory	25°	22°	25°	7° to 30° (Adjustable)	25°	27°



## Irrigation Control & Monitoring Systems

Well-managed irrigation starts with a great control system. Whether you are caring for one single field, or multiple fields spread across a large campus, Toro offers a control system that can be tailored to your preferences, and the needs of you and your team.



## **EVOLUTION® SERIES CONTROLLER**

The EVOLUTION Series controller is modularly expandable from 4 to 16 stations and provides intuitive programming; a wide selection of wireless, water-saving accessories; and features firmware that is field upgradeable.

## **ADD-ONS & ACCESSORIES**

- ✓ Smart Connect® Wireless Receiver
- ✓ Wireless ET Weather Sensor
- ✓ Wireless Precision™ Soil Sensor
- ✓ SMRT Logic<sup>™</sup> Internet Gateway
   & SMRTscape<sup>™</sup> EVO app



## **SENTINEL® COMPACT CONTROL**

Sentinel Compact Control satellites are built to fit the needs of smaller sites. Available in 9, 12, and 18 station models, everything to program the system can be done at the controller, thereby minimizing expense without sacrificing capabilities.

### **ADD-ONS & ACCESSORIES**

- ✓ Wired RainSensor™
- ✓ Wireless RainSensor<sup>™</sup>



### SENTINEL® CENTRAL CONTROL

A powerful central control system that stands guard over your site. Sentinel Water Management Software allows users to control daily irrigation operations and scheduling from a powerful yet easy-to-use platform.

## **ADD-ONS & ACCESSORIES**

- ✓ Turf Guard® Wireless Soil Monitoring System
- ✓ Pro Series<sup>™</sup> Soil Sensor
- ✓ TFS Series Flow Sensors
- ✓ Sentinel® Handheld Remote
- Web-based Precision™ ET
- ✓ On-Site Weather Station



# Valves, Sprays, & Swing Joints

Toro's irrigation product offerings for SF&G settings extend into high-efficiency spray nozzles; pressure-regulated 570Z spray heads; inline low friction loss valves; and high-strength PVC swing joints.



## PRECISION™ SERIES NOZZLES & 590GF SPRAY HEADS

Perfect for border areas to maintain excellent turf conditions without wasting water by throwing outside the field.

- ✓ 590GF pop-up spray bodies are designed to remain level and perform through frequent top dressing applications.
- ✓ Patented Precision™ Spray Nozzles use 1/3 less water while achieving the distance of throw of more conventional nozzles.
- Precision™ Rotating Nozzles feature multiple rotating streams of water that slowly apply water where runoff is a concern.



## INLINE, LOW FRICTION LOSS VALVES

Low Friction Loss valves help keep sprinklers running at optimal performance.

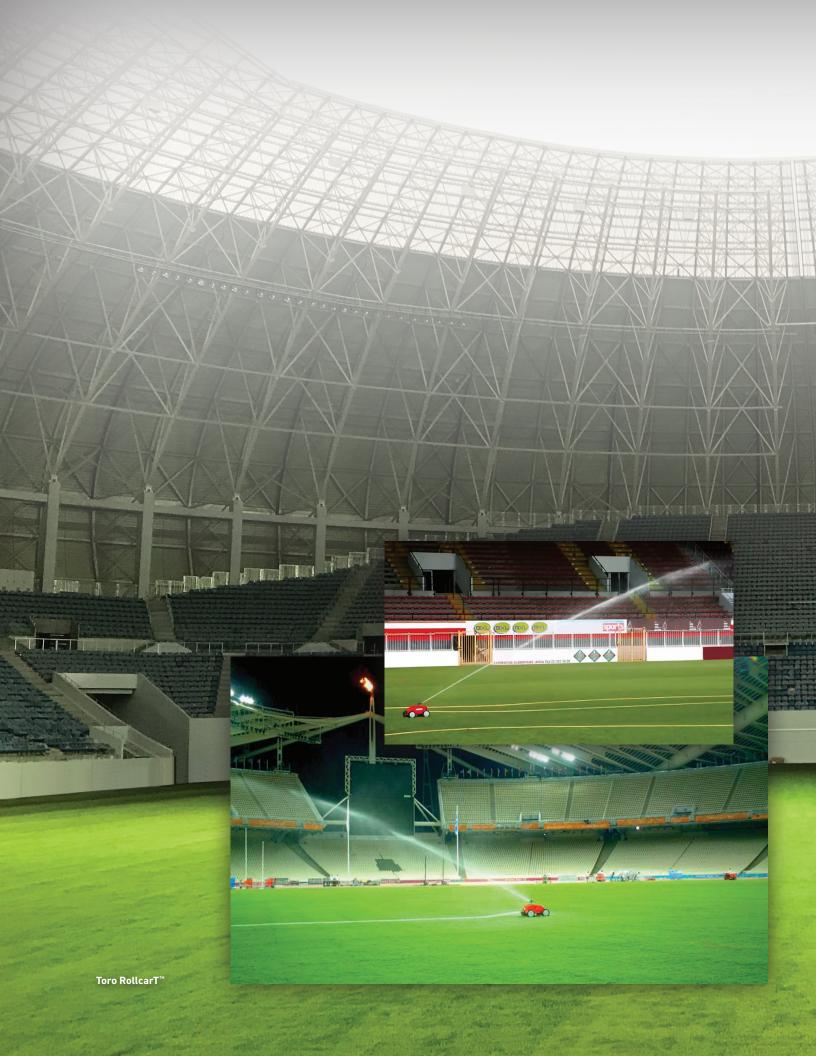
- ✓ Toro 220 Brass Series and high-strength P220 Series valves are suitable for most any SF&G system configuration. Capable of operating pressures up to 220 psi and flows of up to 300 gpm, all 220 and P220 valves feature top-of-bonnet flow control and are EZReg® pressure regulator compatible.
- ✓ The 2" Irritrol® 700-2 valve features a unique straightthrough flow path and slowclosing design that reduces water hammer and the resulting stress on the system.



## **SWING JOINTS**

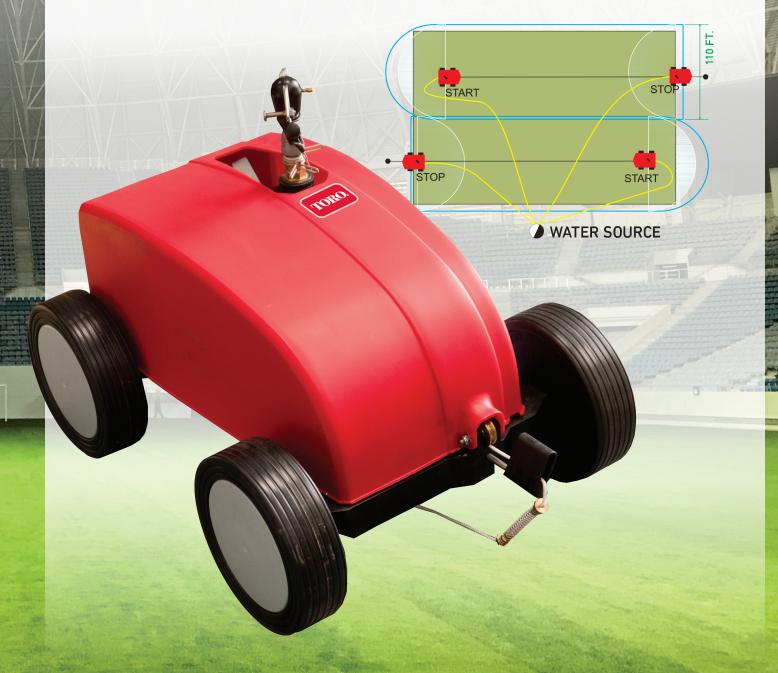
Swing joints provide the flexibility to align the sprinkler to a level position and help ensure the optimum flow of water to the sprinkler through minimizing friction loss.

- Schedule 80 PVC construction and a 315 psi pressure rating
- ✓ Double o-ring swivel joints
- ✓ Available in 1" and 1 ½" models in standard 2x90 or ultra 4x90 configurations



## Toro RollcarT™

The Toro RollcarT offers a cost-effective, easy-to-setup solution for irrigating sports fields, golf course roughs, and other large, open turf areas where no underground irrigation system is installed. The RollcarT is hydraulically-powered and travels the length of the field while applying consistent irrigation through the integrated long radius impact sprinkler. The RollcarT travels along its integrated 350' high-strength cable, and automatically shuts off the flow of water once it has reached the end of the line.

















Toro is always there to help you care for your landscapes the way you want, when you want, better than anyone else.



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