

STK-1 / STK-2

Radius: **103' to 120'**
Flow: **74.5 to 92.0 GPM**

Top-quality ST System long-range rotors are dedicated to synthetic turf sports field irrigation.

KEY BENEFITS

- Arc setting: 40° to 360°
- QuickCheck™ arc mechanism
- Through-the-top arc adjustment
- Water-lubricated gear drive
- Factory-installed rubber logo cap
- Nozzle trajectory: 22.5°

OPERATING SPECIFICATIONS

- Radius: 103' to 120'
- Flow: 74.5 to 92.0 GPM
- Operating pressure range: 100 to 120 PSI
- Precipitation rate: 1.25 in/hr approximately
- Warranty period: 5 years component part

USER-INSTALLED OPTIONS

- Rubber Cover Kit ST-90: P/N 234200
- Rubber Cover Kit STG-900: P/N 473900

ST ROTOR	
Model	Description
ST-90-XX	3" pop-up, jar top cap, adjustable arc, plastic riser, and NPT inlet threads, #73 or #83 pre-installed nozzle
STG-900-XX	3" pop-up, top service, adjustable arc, plastic riser, and Acme inlet threads, #73 or #83 pre-installed nozzle



ST-90*

Overall height: 11½"
Pop-up height: 3"
Diameter: 5½"
Inlet size: 1½" NPT

* Not for use with the ST Vault



STG-900*

Overall height: 14"
Pop-up height: 3"
Diameter: 8"
Inlet size: 1½" Acme

* For use with the ST173026B Vault

KIT CONFIGURATIONS

STK-1 / STK-2		
Kit Descriptions For specification ease and to ensure the correct product is installed, the ST System is available in the kit configurations below	STK-1 STG-900 Block System (remotely located valve)	STK-2 STG-900 VAH System (valve adjacent to head)
ST Rotor: Synthetic turf rotor without rubber cover kit	STG-900	STG-900
ST Vault: Vault with 3-piece polymer-concrete cover	ST-173026-B	ST-173026-B
ST Swing Joint: "VA" 2" PVC swing joint with 7 pivot points	ST-2008-VA	ST-2008-VA
ST Valve and Fitting Kit	—	ST-VBVF-K
ST Adapter Elbow Fitting*	239800	239800
ST Rotor Adapter Fitting**	239300	—
Rubber Cover Kit: STG-900 rubber cover kit	473900	473900
Quick-Coupler Valve: 1" inlet with ¼" outlet for key	HQ-5RC	HQ-5RC

Notes:

*ST Adapter Elbow Fitting connects ST-2008-VA swing joint to rotor adapter fitting (STK-1) also connects ST-VBVF-K to STG-900 rotor (STK-2)

**ST Rotor Adapter Fitting connects 239800 adapter elbow fitting to STG-900 rotor's Acme inlet (STK-1)

ST-90 / STG-900 NOZZLE PERFORMANCE DATA

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr	
				■	▲
73 ●	100	103	74.5	1.35	1.56
	110	109	77.0	1.25	1.44
Orange	120	115	79.6	1.16	1.34
83 ●	100	112	84.2	1.29	1.49
	110	116	88.1	1.26	1.46
Tan	120	120	92.0	1.23	1.42

Notes:

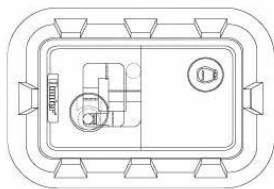
All precipitation rates calculated for 180° operation.
For precipitation rate of a 360° sprinkler, divide by 2.

Requires minimum 100 PSI dynamic pressure supplied to swing joint inlet.

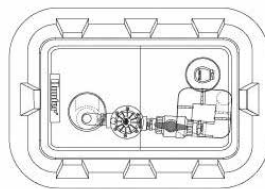
INSTALLATION DETAILS

STK-1

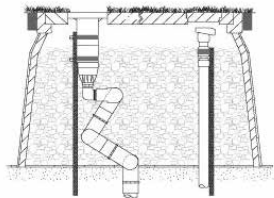
STK-2



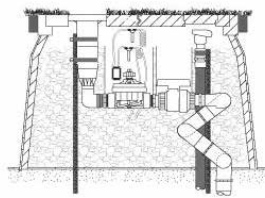
ON-FIELD SIDE



ON-FIELD SIDE



VIEW FROM ON-FIELD SIDE



VIEW FROM ON-FIELD SIDE

ST Rotor



ST SWING JOINTS

Multiaxis 315 PSI rated vertical alignment PVC swing joints with seven O-ring sealed pivot points allow the rotor to be perfectly placed within the ST Vault's cover set opening.

ST2008VA: 2" for ST-90, STG-900

Inlet: 2" female slip
Outlet: 1½" female Acme

Adapter fitting 239300
Connects 239800 elbow fitting to STG-900 Acme inlet rotor

Adapter fitting 239302
Connects 239800 elbow fitting to ST-90B BSP inlet rotor



ST VALVE SETS

Heavy-duty control valves are configured to complement the ST Rotors and ST Vaults.

STVBVFK: for STG-900 in STK-2 Kit

Valve: 1½" NPT ICV
Ball valve: 315 PSI rated
Inlet: 1½" Acme
Outlet: 1½" Acme
Low pressure loss design: 9.8 PSI at 100 GPM
Includes: 1½" connection fittings

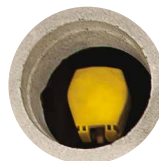


ST VAULTS

Heavy-duty tapered fiberglass and polymer-concrete construction with pre-cast holes for rotor and quick-coupler valve.

ST173026B for STG-900 includes 2" thick 3-piece PC cover set

Main cover: 17" x 30"
Overall height: 26"
Body weight: 104 lbs.
Total weight: 161 lbs.
Base pad: 27" x 41"
Quick access port: 1



① Quick Coupler

All ST Vaults include convenient quick access ports. Quick couplers provide a convenient source of water for washing down spills and water-soluble paint. The integrated in-vault design eliminates the need for additional quick-coupler enclosures.