STK-1 / STK-2

Flow: 16.9 to 20.9 m³/hr; 282.0 to 348 l/min

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: 31.4 m to 36.6 m
- Flow: 16.9 to 20.9 m³/hr; 282 to 348 l/min
- Operating pressure range: 6.9 to 8.3 bar; 690 to 830 kPa
- Precipitation rate: 35 mm/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	8 cm pop-up, jar-top cap, adjustable arc, plastic riser, and BSP inlet threads, #73 or #83 pre-installed nozzle
STG-900-XX	8 cm pop-up, top service, adjustable arc, plastic riser, and Acme inlet threads, #73 or #83 pre-installed nozzle



Radius: **31.4 to 36.6 m**

ST-90* Overall height: 29 cm Pop-up height: 8 cm Diameter: 14 cm Inlet size: 1½" (40 mm) BSP

* Not for use with the ST Vault



STG-900*

Overall height: 36 cm Pop-up height: 8 cm Diameter: 20 cm Inlet size: 1½" (40 mm) Acme

* For use with the ST173026B Vault

KIT CONFIGURATIONS

STK-1 / STK-2 COMPONENTS			
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-173026B	ST-173026B	
ST Swing Joint: "VA" 2" (50 mm) PVC swing joint with 7 pivot points	ST-2008VA	ST-2008VA	
ST Valve & Fitting Kit: ICV-151 valve, high-pressure-rated ball valve & fitting kit	_	ST-VBVFK	
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" (25 mm) inlet with 1¼" (32 mm) outlet for key	HQ5RC-BSP	HQ5RC-BSP	
BSP Inlet Adapter: Converts swing joint to 2" (50 mm) male BSP threads	241400	241400	

Notes

^{*}ST Adapter Elbow Fitting connects ST-2008VA swing joint to rotor adapter fitting (STK-1B) also connects ST-VBVFK to STG-900 rotor (STK-2B) **ST Rotor Adapter Fitting connects 239800 adapter elbow fitting to STG-900 rotor's Acme inlet (STK-1B)

ST-90 / STG-900 NOZZLE PERFORMANCE DATA

Nozzle	Pressure		Radius	Flow		Precip mm/hr	
	bar	kPa	m	m³/hr	l/min		
73 •	7.0	700	31.4	16.9	282	34.3	39.6
	7.5	750	33.2	17.5	291	31.7	36.6
Orange	8.0	800	35.1	18.1	301	29.4	34.0
83 •	7.0	700	34.1	19.1	319	32.8	37.9
05	7.5	750	35.4	20.0	333	32.0	37.0
Tan	8.0	800	36.6	20.9	348	31.2	36.1

Notes:

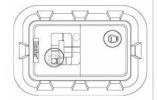
All precipitation rates calculated for 180° operation. For precipitation rate of a 360° sprinkler, divide by 2.

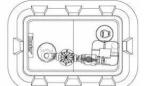
Requires minimum 7.0 bar; 700 kPa dynamic pressure supplied to swing joint inlet.

INSTALLATION DETAILS

STK-1

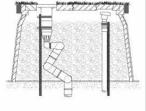
STK-2





ON-FIELD SIDE

ON-FIELD SIDE





VIEW FROM ON-FIELD SIDE

VIEW FROM ON-FIELD SIDE

ST Rotor



ST SWING JOINTS

Multiaxis 22 bar; 2,200 kPa 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" (50 mm) for STG-900

Inlet: 2" (50 mm) slip* Outlet: 1½" (40 mm) Acme

* Use P/N 241400 adapter to male BSP threads

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" (40 mm) NPT ICV

Ball valve: 22 bar (2,200 kPa) rating

Inlet: 1½" (40 mm) Acme Outlet: 1½" (40 mm) Acme

Low pressure loss design: 0.7 bar; 70 kPa

at 22.7 m³/hr; 378 l/min from swing joint inlet through to rotor

Includes: 1½" (40 mm) 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 50 mm thick 3-piece PC cover set

Main cover: 43 cm x 76 cm Overall height: 66 cm Body weight: 47 kg Total weight: 73 kg Base pad: 68 cm x 104 cm Quick access ports: 1





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.

① Quick Coupler