

STK-1 / STK-2

Radius: 31.4 to 36.6 m
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-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

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

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.

ST Rotor:	STG-900	STG-900
ST Vault:	ST-173026B	ST-173026B
ST Swing Joint:	ST-2008VA	ST-2008VA
ST Valve & Fitting Kit:	—	ST-VBFK
ST Adapter Elbow Fitting	239800	239800
ST Rotor Adapter Fitting*	239300	—
Rubber Cover Kit:	473900	473900
Quick-Coupler Valve:	HQ5RC-BSP	HQ5RC-BSP
BSP Inlet Adapter:	241400	241400

Notes:

*ST Adapter Elbow Fitting connects ST-2008VA swing joint to rotor adapter fitting (STK-1B) also connects ST-VBFK 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-1700V

This ST System includes a valve-in-head design for faster installation and maintenance.

KEY BENEFITS

- Nozzle choices: 5
- Standard nozzle: #20
- Nozzle range: #16 to #24
- Nozzle trajectory: 25°
- Total-Top-Service (TTS) design provides convenient no-dig servicing
- Valve-in-head configuration simplifies installation
- Isolated, grease-lubricated gear drive
- Factory-installed rubber logo cap
- Arc adjustment: movable stops for left/right arc adjustment
- Ratcheting nozzle turret

OPERATING SPECIFICATIONS

- Radius: 32 to 48 m
- Flow: 21.0 to 58.8 m³/hr; 350 to 980 l/min
- Operating pressure range: 4.0 to 8.0 bar; 400 to 800 kPa
- Arc setting: 40° to non-reversing 360°
- Speed of rotation: 80 seconds at 6.0 bar; 600 kPa (single 180° sweep)
- Precipitation rate: 45 mm/hr approximately
- Warranty period: 5 years component part



ST-1700V

Overall height: 68 cm

Pop-up height: 13 cm

Top: 33 cm x 39 cm

Inlet size: 2" BSP*

* Use P/N 241400SP adapter to 2" (50 mm) PVC pipe if needed



ST-1700V Valve Tool

P/N 10000100SP

For installation and removal of inlet valve



Snap-Ring Tool

P/N 251000SP



ST1600/ST1700 Tool

P/N 517600SP

For gear drive installation and removal

ST-1200BR

Radius: 20.4 to 35.1 m
Flow: 6.13 to 29.76 m³/hr; 102.1 to 495.9 l/min

The cost-effective ST-1200BR is the ideal riser-mounted solution for pastures, corrals, arenas, dust control, and wash-down watering.

KEY BENEFITS

- Nozzle choices: 5 (included)
- Standard nozzle: #12
- Nozzle range: #10 to #18
- Nozzle trajectory: 22.5°
- Isolated, grease-lubricated gear drive
- Nozzle barrels: short and long (included)
- Movable stops (left and right) arc adjustment
- Arc setting: 40° to non-reversing 360°
- Ratcheting nozzle turret

OPERATING SPECIFICATIONS

- Radius: 20.4 m to 35.1 m
- Flow: 6.13 to 29.76 m³/hr; 102.1 to 495.9 l/min
- Recommended pressure range: 2.0 to 6.0 bar; 200 to 600 kPa



ST-1200BR

Overall height: 30 cm
Overall length: 30 cm
Overall width: 10 cm
Inlet size: 1½" (40 mm) BSP

ST-1200BR NOZZLE PERFORMANCE DATA

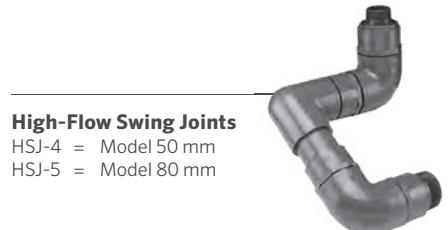
Nozzle	Pressure	Radius	Flow	Precip in/hr
	Bar kPa	m	m ³ /hr l/min	■ ▲
10 ●	2.0	200	20.4	6.13 102.2 29.4 34.0
	3.0	300	22.9	7.45 124.2 28.5 32.9
	4.0	400	25.9	8.65 144.2 25.8 29.8
	5.0	500	27.4	9.88 164.7 26.3 30.3
12 ●	2.0	200	20.7	7.63 127.2 35.5 41.0
	3.0	300	23.8	9.36 156.0 33.1 38.2
	4.0	400	26.8	10.81 180.2 30.1 34.7
	5.0	500	29.9	12.06 201.0 27.0 31.2
14 ●	2.0	200	21.3	10.38 173.0 45.6 52.7
	3.0	300	26.2	12.72 212.0 37.0 42.8
	4.0	400	30.5	14.70 244.9 31.6 36.5
	5.0	500	33.5	16.47 274.4 29.3 33.8
16 ●	2.0	200	21.9	13.52 225.2 56.1 64.8
	3.0	300	28.3	16.58 276.3 41.3 47.7
	4.0	400	31.4	19.15 319.1 38.9 44.9
	5.0	500	35.4	18.38 306.2 29.4 33.9
18 ●	3.0	300	29.0	21.01 350.1 50.1 57.9
	4.0	400	31.7	24.31 405.0 48.4 55.9
	5.0	500	33.8	27.15 452.4 47.4 54.8
	6.0	600	35.1	29.76 495.9 48.4 55.9

HIGH-FLOW SWING JOINTS

These durable swing joints are easy to position and ensure correct rotor installation height.

KEY BENEFITS

- Heavy-duty, high-flow swing joints with O-ring seals
- HSJ-4 for high-flow I-90 and ST-90 rotors with 50 mm (2") inlets
- HSJ-5 for high-flow ST-1600HSB rotor with 80 mm (3") inlet
- Available in popular inlet and outlet configurations



HSJ HIGH-FLOW SWING JOINT - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Inlet Type (from pipe fitting)	3 Outlet Type (to sprinkler inlet)	4 Outlet Style	5 Lay Length
HSJ-4 = 50 mm heavy-duty swing joint	6 = 2" (50 mm) male BSP, horizontal side connection	D = 1½" (40 mm) male BSP	2 = Single top-out	12 = 12" (30 cm) lay arm
HSJ-5 = 80 mm heavy-duty swing joint	6 = 3" (80 mm) male BSP, horizontal side connection	E = 2" (50 mm) male BSP	2 = Single top-out	12 = 12" (30 cm) lay arm

Examples:

HSJ-4-6D-212 = HSJ 50 mm heavy-duty swing joint, 50 mm male BSP horizontal side connection to piping, 40 mm male BSP outlet to sprinkler, single top-out, and 30 cm lay arm

HSJ-5-6E-212 = HSJ 80 mm heavy-duty swing joint, 80 mm male BSP horizontal side connection to piping, 50 mm male BSP outlet to sprinkler, single top-out, and 30 cm lay arm