

STK-1 / STK-2

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



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-VBVK
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-VBVK 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.

Radius: **32 to 48 m**

Flow: **21.0 to 58.8 m³/hr; 350 to 980 l/min**

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 NOZZLE PERFORMANCE DATA

Nozzle	Pressure		Radius	Flow		Precip mm/hr	
	bar	kPa	m	m³/hr	l/min	■	▲
16 ● Black	4.0	400	32.0	21.0	350	41.0	47.3
	5.0	500	35.0	22.7	379	37.1	42.8
	6.0	600	37.0	25.9	432	37.8	43.7
	7.0	700	38.5	28.1	469	38.0	43.9
	8.0	800	40.0	30.4	508	38.1	43.9
18 ● Black	4.0	400	34.0	24.3	405	42.0	48.5
	5.0	500	36.5	26.1	435	39.2	45.3
	6.0	600	38.5	28.8	481	38.9	44.9
	7.0	700	40.0	31.1	519	38.9	44.9
	8.0	800	42.0	33.8	564	38.3	44.3
20 ● Black	4.0	400	35.0	30.4	508	49.7	57.4
	5.0	500	39.0	34.3	572	45.1	52.0
	6.0	600	41.0	37.2	621	44.3	51.1
	7.0	700	43.0	40.9	681	44.2	51.0
	8.0	800	45.0	44.0	733	43.4	50.1
22 ● Black	4.0	400	35.5	34.9	582	55.4	63.9
	5.0	500	39.0	39.5	659	51.9	60.0
	6.0	600	43.0	42.9	715	46.4	53.6
	7.0	700	45.5	46.8	780	45.2	52.2
	8.0	800	47.0	50.4	841	45.7	52.7
24 ● Black	4.0	400	37.0	40.2	671	58.8	67.9
	5.0	500	40.5	45.6	761	55.6	64.2
	6.0	600	44.0	50.4	840	52.1	60.1
	7.0	700	47.0	54.5	908	49.3	57.0
	8.0	800	48.0	58.8	980	51.0	58.9



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

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

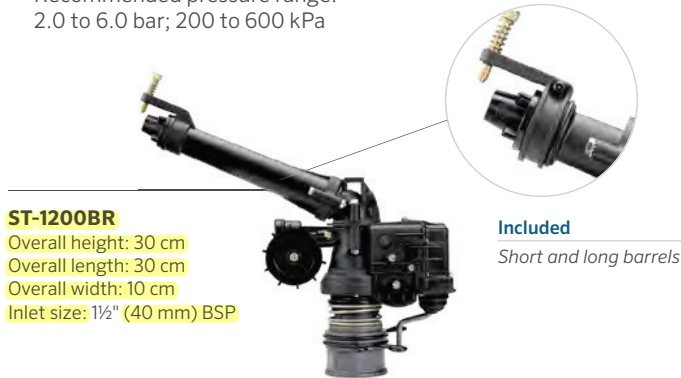
Radius: **20.4 to 35.1 m**
Flow: **6.13 to 29.76 m³/hr; 102.1 to 495.9 l/min**

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

Included
Short and long barrels

ST-1200BR NOZZLE PERFORMANCE DATA

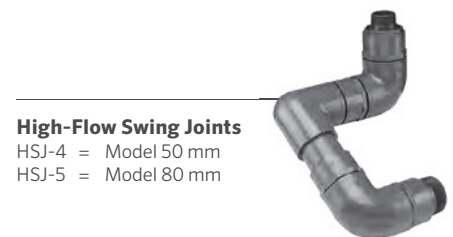
Nozzle	Pressure		Radius	Flow		Precip in/hr	
	Bar	kPa		m³/hr	l/min	■	▲
10 ●	2.0	200	20.4	6.13	102.2	29.4	34.0
	3.0	300	22.9	7.45	124.2	28.5	32.9
	4.0	400	25.9	8.65	144.2	25.8	29.8
	5.0	500	27.4	9.88	164.7	26.3	30.3
12 ●	2.0	200	20.7	7.63	127.2	35.5	41.0
	3.0	300	23.8	9.36	156.0	33.1	38.2
	4.0	400	26.8	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



High-Flow Swing Joints
HSJ-4 = Model 50 mm
HSJ-5 = Model 80 mm

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