

STK-6V

ST SYSTEM FOR CLEANING, COOLING, FLUSHING AND PREPARING SYNTHETIC SPORTS FIELDS FOR PLAY

Radius: **32.5 to 50.3 m**
 Flow: **21.8 to 74.2 m³/hr; 364 to 1,237 l/min**
 Inlet: **2" (50 mm) BSP**

FEATURES

- Nozzle choices: 6
- Standard nozzle: #20
- Nozzle range: #16 to #26
- Nozzle trajectory: 22.5°
- Gear-drive: Isolated, grease lubricated gear-drive
- Factory installed rubber logo cap (ST-1600-B / ST-1600-HSB)
- Arc Adjustment: Moveable stops (left and right) arc adjustment
- Arc setting: 40° to non-reversing 360°
- Ratcheting nozzle turret
- Telescoping rubber infill barrier on riser
- Adjustable speed of rotation: 0 to 65 seconds (High speed models, 180° at 8 bar, 800 kPa)
- Internal construction: Brass, stainless steel and ball-bearings
- Optional Infill Barrier System (ST-1600-B / ST-1600-HSB)
- Warranty period: 5 year component part

OPERATING SPECIFICATIONS

- Radius: 32.5 to 50.3 m
- Flow: 21.8 to 74.2 m³/hr; 364 to 1,237 l/min
- Operating pressure range: 4.0 to 8.0 bar; 400 to 800 kPa
- Precipitation rate: 60 mm/hr approximately

KIT CONFIGURATIONS

STK-6V				
Kit Description (Components are ordered individually)	STK-6V-B-2P Standard Pop-Up 2" (50 mm) Plastic Valve	STK-6V-HSB-2P High Speed Pop-Up 2" (50 mm) Plastic Valve	STK-6V-B-3M Standard Pop-Up 3" (80 mm) Metal Valve	STK-6V-HSB-3M High Speed Pop-Up 3" (80 mm) Metal Valve
ST Rotor: Synthetic turf rotor	ST-1600-B	ST-1600-HS-B	ST-1600-B	ST-1600-HS-B
ST Infill Barrier System: Rubber cover kit	ST-IBS-1600	ST-IBS-1600	ST-IBS-1600	ST-IBS-1600
ST Bracket: Rotor hanger and elevation adjustment	ST-BKT-1600	ST-BKT-1600	ST-BKT-1600	ST-BKT-1600
ST Vault: 4-piece polymer-concrete cover set	ST-243636-B	ST-243636-B	ST-243636-B	ST-243636-B
ST Manifold: 3" (80 mm) fittings, isolation valve and drain valve	ST-BVF30-K	ST-BVF30-K	ST-BVF30-K	ST-BVF30-K
ST Valve: With remote on-off-auto selector	ST-V20-KVP	ST-V20-KVP	ST-V30-KV	ST-V30-KV
ST Variable Speed Valve: Regulates opening speed	ST-NDL-K	ST-NDL-K	ST-NDL-K	ST-NDL-K
ST Support: Adjustable manifold support (2 required)	ST-SPT-K	ST-SPT-K	ST-SPT-K	ST-SPT-K
ST Inlet Hose: Flexible stainless steel alignment hose	ST-H30-K	ST-H30-K	ST-H30-K	ST-H30-K
BSP Inlet Adapter: 3" (80 mm) NPT x BSP	855000	855000	855000	855000
BSP Inlet Adapter: 1" (25 mm) NPT x BSP male (2 required)	855100	855100	855100	855100
Quick Coupler Valve: 1" (25 mm) BSP inlet, 1¼" (32 mm) outlet for key	HQ-5RC-BSP	HQ-5RC-BSP	HQ-5RC-BSP	HQ-5RC-BSP



ST-1600-B
ST-1600-HS-B
 Overall height: 57 cm
 Pop-up height: 13 cm
 Diameter: 36 cm
 Inlet size: 2" (50 mm) BSP*

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



ST-1600-BR
ST-1600-HS-BR
 (Riser Mounted Model)
 Overall height: 22 cm
 Diameter: 21 cm
 Inlet size: 2" (50 mm) BSP*

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

ST Infill Barrier System

ST-IBS-1600

The unique IBS rubber cover kit includes vertical rubber barriers to retain infill material creating a safe transition where the rotor pops up. The IBS can also be trimmed to create a flat exposed surface area.

ST Adjustable Hanger Bracket

ST-BKT-1600

This bracket supports the rotor within the vault and provides vertical elevation adjustments allowing for a perfect surface transition.

ST Manifold and Isolation Valve

ST-BVF30-K

Rated to 35 bar; 350 kPa working pressure, this 3" (80 mm) galvanized ductile iron assembly includes Victaulic™ type grooved connections, a butterfly isolation valve, a point of connection for the quick coupler, and a 1" (25 mm) brass drain valve.

ST H-Block Manifold Supports

ST-SPT-K

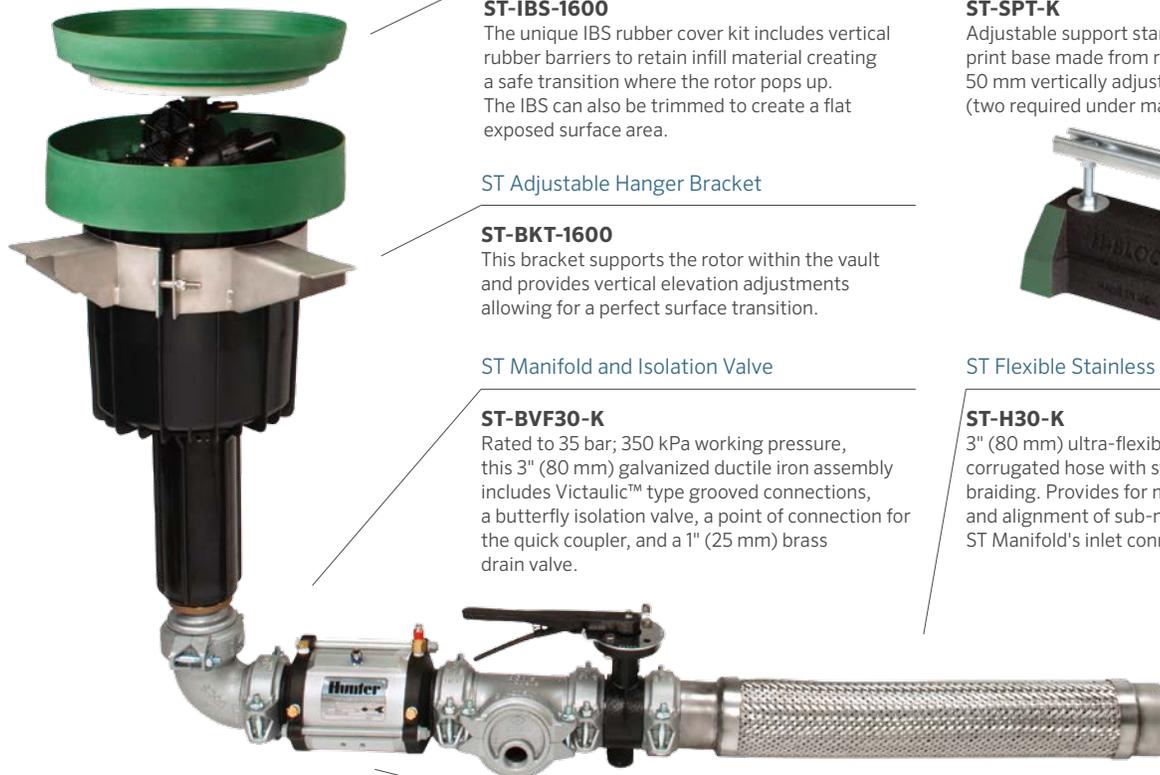
Adjustable support stands include a large footprint base made from recycled tire rubber and a 50 mm vertically adjustable support rail (two required under manifold).



ST Flexible Stainless Inlet Hose

ST-H30-K

3" (80 mm) ultra-flexible stainless steel corrugated hose with stainless steel support braiding. Provides for minor offset and alignment of sub-mainline to the ST Manifold's inlet connection.



ST Low-Loss, Slow-Opening Valve (Plastic)

For Flows Up to 45.0 m³/hr; 757 l/min



ST-V20-KVP: Heavy-duty plastic control valve
Valve: 2" (50 mm) Grooved Vic Type
Opening Speed: ST-NDL-K regulates/slows speed
Pressure Loss: Ultra Low (0.15 bar; 15 kPa at 45.0 m³/hr; 757 l/min)
Manual Control: Remote On-Off-Auto Selector and Solenoid (not shown)

ST Low-Loss, Slow-Opening Valve (Metal)

ST-V30-KV: Heavy-duty metal control valve
Valve: 3" (80 mm) Grooved Vic Type
Opening Speed: ST-NDL-K regulates/slows speed
Pressure Loss: Ultra Low (0.15 bar; 15 kPa at 65.0 m³/hr; 1,082 l/min)
Manual Control: Remote On-Off-Auto Selector and Solenoid (not shown)

ST Rotors have many uses

While ST Rotors are specifically designed for cleaning and cooling synthetic turf sports fields, they are also great for other applications such as pastures, horse arenas, dust control and even casual natural turf areas.

INSIDE THE ST SYSTEM

Open access to all components for ease of ongoing maintenance



FROM THE TOP

Smooth and safe surface area with quick-access ports



SEAMLESS INTEGRATION

Blends in perfectly with the surrounding synthetic surface



ST VAULTS

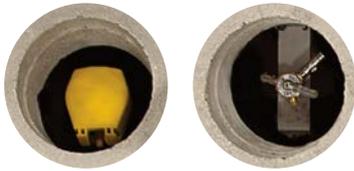
Heavy-duty tapered fiberglass and polymer-concrete construction with pre-cast holes for rotor, quick coupler valve, and remote manifold assembly.

Quick-couplers provide a convenient source of water for washing down spills and water-soluble paint. Integrated in-vault design eliminates the need for additional quick-coupler enclosures.

The ST-V30KV valve kit includes a remotely located On-Off-Auto selector and solenoid manifold assembly. These convenient features bring valve manual control functions and solenoid splice connections closer to the surface for easy access.

ST-243636B: includes 76 mm thick 4-piece PC cover set

- Main Cover:** 61 cm x 91 cm
- Overall Height:** 91 cm
- Body Weight:** 70 kg
- Total Weight:** 138 kg
- Base Pad:** 106 cm x 122 cm
- Quick Access Ports:** 2



① Quick-Coupler ② On-Off-Auto Selector

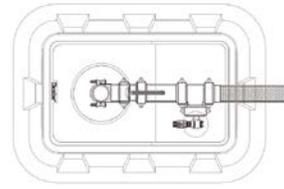


ST-1600 Rotor in Action



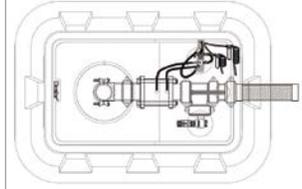
INSTALLATION DETAILS

STK-5V

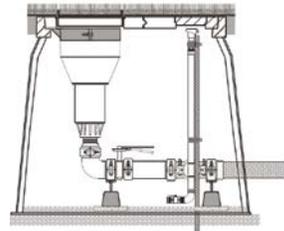


ON FIELD SIDE

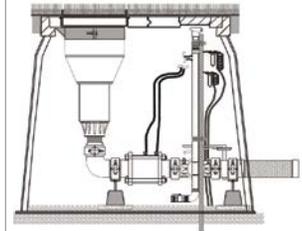
STK-6V



ON FIELD SIDE



VIEW FROM ON FIELD SIDE



VIEW FROM ON FIELD SIDE

ST-1600 NOZZLE PERFORMANCE DATA

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m ³ /hr	l/min	■	▲
16 ● Black	4.0	400	32.5	21.8	364	41.4	47.8
	5.0	500	35.0	24.4	406	39.8	45.9
	6.0	600	37.0	26.8	446	39.1	45.1
	7.0	700	39.0	28.9	482	38.0	43.9
	8.0	800	41.0	31.2	520	37.1	42.9
18 ● Black	4.0	400	34.0	24.3	405	42.0	48.6
	5.0	500	37.0	27.1	452	39.6	45.8
	6.0	600	39.0	29.8	496	39.1	45.2
	7.0	700	40.5	32.1	535	39.1	45.2
	8.0	800	43.0	34.8	580	37.6	43.5
20 ● Black	4.0	400	35.0	32.7	545	53.4	61.7
	5.0	500	39.0	36.5	609	48.1	55.5
	6.0	600	43.0	40.1	668	43.4	50.1
	7.0	700	44.0	43.3	721	44.7	51.6
	8.0	800	45.0	46.4	773	45.8	52.9
22 ● Black	4.0	400	36.0	38.9	649	60.1	69.4
	5.0	500	39.5	43.6	726	55.8	64.5
	6.0	600	44.0	47.7	795	49.3	56.9
	7.0	700	47.0	51.5	859	46.7	53.9
	8.0	800	48.0	55.2	920	47.9	55.3
24 ● Black	4.0	400	37.0	45.9	765	67.1	77.4
	5.0	500	40.5	51.3	855	62.6	72.2
	6.0	600	45.0	56.2	937	55.5	64.1
	7.0	700	47.5	60.7	1012	53.8	62.2
	8.0	800	48.7	65.0	1084	54.9	63.3
26 ● Black	4.0	400	38.4	53.0	883	71.8	82.9
	5.0	500	41.4	59.2	986	68.8	79.5
	6.0	600	46.0	64.6	1077	61.0	70.4
	7.0	700	48.7	69.7	1162	58.6	67.7
	8.0	800	50.3	74.2	1237	58.7	67.8



SIMPLE TO SPECIFY, *Easy to Install & Maintain*

The Hunter ST System is the first and only cost-effective integrated solution designed to exceed the unique and specific needs of the synthetic turf irrigation market. The core of the Hunter ST System features our gear-driven long-range rotors. Coupled with the heavy-duty manifold assembly, low-pressure loss valves and robust, feature-packed enclosures, they provide the ultimate in installation flexibility and long-term total

access to all irrigation components including the manifold's point of connection. Such complete access is an absolute must when the surrounding synthetic surface is not easily excavated and restored to original condition without huge expense, specialised equipment and complicated procedures. For the most complete and highest quality synthetic turf watering solution, the answer is clearly the Hunter ST System.