

# ST-90

The ST-90 synthetic turf rotor is designed for installation in natural turf adjacent to the playing surface — the perfect solution for small and midsize fields.

## 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 for component parts

## USER-INSTALLED OPTIONS

- Rubber cover kit ST-90: P/N 234200SP

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



**ST-90\***  
 Overall height: 11½"  
 Pop-up height: 3"  
 Diameter: 5½"  
 Inlet size: 1½" NPT

\*Not for use with the ST Vault

## ST-90 NOZZLE PERFORMANCE DATA

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

### Notes:

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

# 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 1½" inlets

### High-Flow Swing Joints

HSJ-4 = 2" model  
 HSJ-5 = 3" model



## 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 = 2" heavy-duty swing joint	3 = 2" male NPT, horizontal side connection	7 = 1½" male NPT	2 = Single top-out	12 = 12" lay arm

### Examples:

HSJ-4-37-212 = HSJ 2" heavy-duty swing joint, 2" male NPT horizontal side connection to piping, 1½" male NPT outlet to sprinkler, single top-out, and 12" lay arm