ST-1700V Overview

Hunter’s synthetic turf rotors are designed to cool, clean, and flush synthetic sports fields. The new ST-1700V long-range synthetic turf rotor offers high-performance irrigation from the field perimeter while integrating Valve-in-Head (VIH) capabilities and a Total-Top-Service (TTS) design to simplify installation and maintenance. With the same heavy-duty internal gear drive as the proven ST-1600HSB rotor, the ST-1700V provides years of reliable operation with the convenience of a valve-in-head design.

Valve-In-Head
The Valve-In-Head design integrates the control valve, solenoid, and manual On-Off-Auto detector within the rotor’s heavy-duty impact-resistant case to create a convenient and compact design appreciated by installers and end-users.

Total-Top-Serviceability
With Total-Top-Serviceability, every serviceable component can be accessed from the surface without cutting into the synthetic turf. The spacious flange compartment can accommodate full-sized waterproof splice connectors, and the compartment can hold a decoder for two-wire control system applications.

Features and Benefits
- Heavy-duty internal gear drive and stainless steel pop-up riser provide years of reliable operation.
- Long-range performance flexibility up to 48 m with five nozzles choices.
- Full-Circle and Adjustable-Arc in one model from 40° to 360°.
- Adjustable speed of rotation using the adjustment knob to set the speed to your requirements.

Troubleshooting
Find more helpful information about your product, including installation tips, controller programming, and more.

Important
The water may contain foreign objects such as grains of sand, small stones, and other impurities, which can damage the sprinklers.
To avoid these problems, it is necessary to install a filter.

After Installation
Troubleshooting non-rotation after installation:
1. Check for plugged secondary nozzle
2. Check for a blocked propeller in turbine assembly

Caution
- Do not perform and adjustments or controls during operation.
- Stand clear of the action area of the rotor and the water-jet.
- Ensure stream-water is not directed on persons, animals, power lines, roads or other objects.
Product Details

Product Dimensions:
- Overall height: 68 cm
- Pop-up height: 13 cm
- Exposed diameter: 33 cm x 39 cm
- Inlet size: 2" (50 mm) BSP*

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

Operating Specification:
- 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
Tools and Accessories

Nozzle #16 32 m 40 m
Nozzle #18 34 m 42 m
Nozzle #20 35 m 45 m
Nozzle #22 35.5 m 47 m
Nozzle #24 37 m 48 m

25°

Gear drive insertion/removal tool
P/N 517600SP

Valve insertion/removal tool
P/N 10000100SP

Snap ring removal tool
P/N 251000SP
Replacing the cover and rotor
Remove plug (1), unscrew nut (2), and remove cover (3). Unscrew manually the sprinkler.

Accessing the propeller
Unscrew screws (1).

Part circle operation
Lift-up cover (1). Settle manually the rings (2) for part circle irrigation.

Replacing the cover and rotor
Remove plug (1), unscrew nut (2), and remove cover (3). Unscrew manually the sprinkler.

Accessing the solenoid.
Unscrew screws (1).

Accessing the valve-in-head.
Unscrew screws (1) and remove body (2). Unscrew screws (3) and threaded ring (4).
**FLANGE DETAIL**

1. Discharge port (OPEN)
2. Discharge port (AUTO)
3. Solenoid
4. Water line to filter
5. Water line to valve-in-head

**INSTALLATION DETAIL**

1. Solenoid wiring
2. 2” (50 mm) BSP
3. Concrete or soil
4. Water line
5. (Optional) manual valve
6. (Optional) vault or valve box
Design Guide

Rugby

Field Hockey

Football A

Football B

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<th>Nozzle</th>
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<th>Pressure kPa</th>
<th>Radius m</th>
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<th>Precipitation mm/hr*</th>
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* Precipitation rate shown with head to head coverage

Notes:
All radius measurements taken at standard rotation speeds.