

Golf Irrigation Product Catalogue

GOLF IRRIGATION | *Built on Innovation®*

VOLUME 40

Hunter®



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Our Story

Founded in 1981, Hunter Industries is a family-owned, global manufacturer of best-in-class solutions for residential, commercial, municipal, agricultural, and golf course irrigation systems, as well as the outdoor lighting industry. Headed by CEO Greg Hunter, our Global Operations Team provides leadership for the entire company. The core mission of Hunter Industries will always remain the same: to deliver valued products and services backed by unwavering customer support, grow the company conscientiously, and remain true to the culture that makes our employees proud to work at Hunter. Learn more at hunterindustries.com.

Product Highlights

When it comes to ensuring green and playable golf courses, irrigation simply must become more efficient. Achieving this goal requires more than high-performing golf irrigation products that push the boundaries of innovation. You need a trusted partner, from conception to installation and beyond.

Pilot Command Center Software

With cloud database backups, web-based features, and POGO visual insight integrations, Pilot Cloud lays the foundation for the future of golf course irrigation control. Offering optimised display and functionality and more informed scheduling adjustments using real-time data, this intuitive solution creates more possibilities for third-party integrations and mobile optimisation.

TTS-800 Series Golf Rotors

Maximise performance in the field with our top-of-the-line golf rotors. Featuring exclusive PressurePort™ Nozzle Technology for maximum distribution uniformity, no-dig Total-Top-Serviceability for easy maintenance, and the largest flange compartment in the industry, these rotors ensure peak playability and years of reliable operation.

PILOT™ CONTROL NETWORK



Pilot CCS



Pilot IHS



TTS Rotors



DEMAND THE BEST.

CHOOSE HUNTER GOLF.

Pilot CCS

Command Center Software

With next-generation Pilot Command Center Software, you can create hydraulically safe and efficient daily course watering plans faster than ever before. Pilot helps manage thousands of individually controlled sprinklers in seconds. It's the ideal management tool for an Integrated Hub System.

Pilot IHS

Integrated Hub System

Integrated Hub Systems help you save time and money from day one. Compared to a Field Controller System, an Integrated Hub System uses less copper wire and requires fewer splices, valve boxes, and concrete pads. This means lower costs, faster installation, and easier system diagnosis and repair, if needed. You can also easily expand the system if desired.

TTS Rotors

With Two-Way Modules

Two-way module (TWM) technology built into every TTS rotor permits highly efficient control of complex irrigation systems. The rotors are connected to the system via low-voltage, direct-burial communication cable.

ICD-HP PROGRAMMER

Communicate Directly with TWMs

Program and troubleshoot Pilot Two-Way Modules with no digging or wires required. The handy device communicates directly through the plastic without barcodes, saving you time in the field.

PILOT™ COMMAND CENTER SOFTWARE

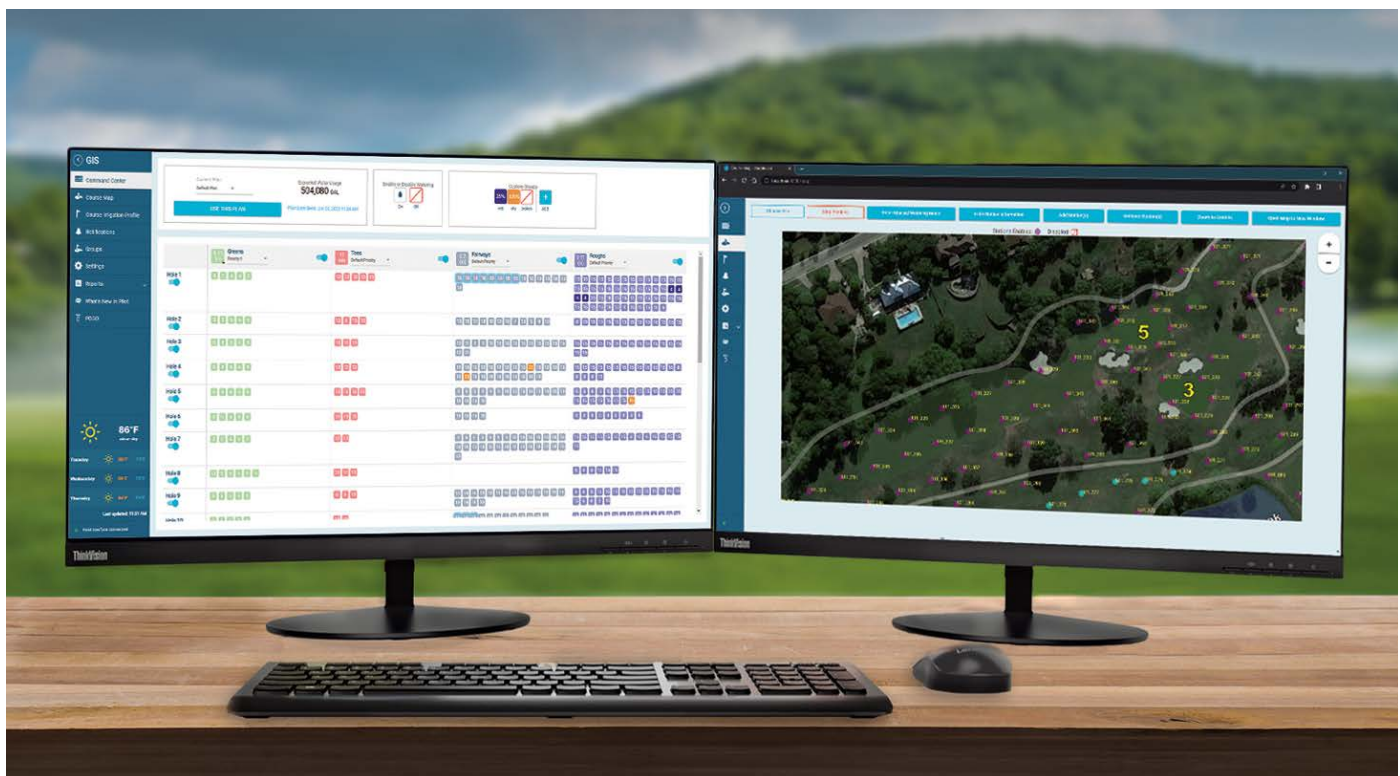
Enjoy simple yet powerful irrigation management and control with revolutionary Pilot CCS.

Pilot Command Center Software (CCS) is easy to use and has all the features you need to reliably and automatically water your course. Run times can be adjusted manually or determined automatically using evapotranspiration (ET). You create watering plans directly in the Command Center — a powerful irrigation planning tool that shows you every sprinkler on the course, organised according to your management style.

PILOT SPECIFICATIONS

- Operating system: 64-bit Windows®
- Maximum controllers or hubs: about 1,000
- Maximum Two-Way Module stations: about 1 million
- Sprinkler run time options: minutes, millimetres, inches, or ET
- Hydraulic management: fully customisable down to individual stations
- Mapping: interactive and based on scalable vector graphics (SVG)

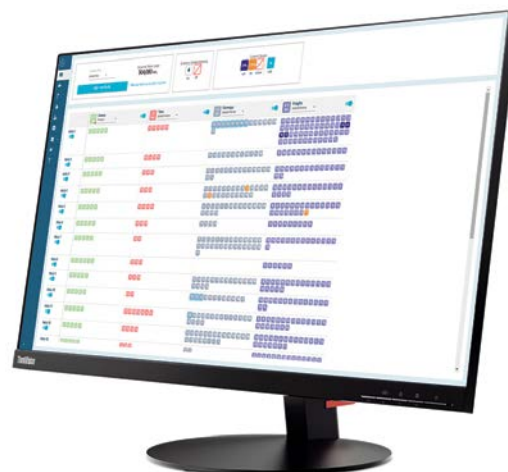
Pilot Command Center Software



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Lenovo® and ThinkVision® are trademarks of Lenovo in the United States, other countries, or both.

SET SCHEDULES WITH THE COMMAND CENTER

Planning daily watering for your course has never been simpler. The Command Center shows every sprinkler on the course, logically arranged according to your personal management requirements. You can easily make daily adjustments with just a few clicks of the mouse.



Command Center

SPEND LESS TIME RUNNING YOUR PUMP

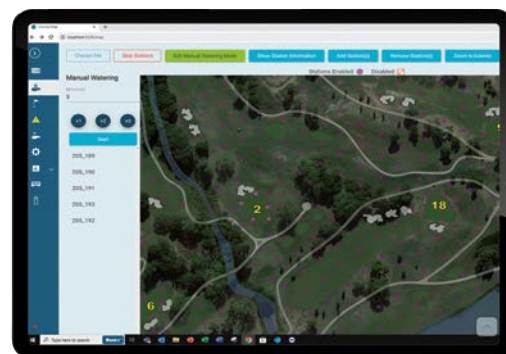
Pilot CCS uses your electrical and hydraulic data to efficiently balance sprinkler demand while maintaining flow at safe velocities. To protect your pump station and maintain optimal sprinkler uniformity, you can gradually step up irrigation in safe increments.



Flow Optimisation

ACCESS INSIGHTS FROM ANYWHERE WITH PILOT CLOUD

Bring powerful irrigation control and monitoring to your fingertips with Pilot Cloud. Web-based features enable optimised display and functionality from any location on any device, while third-party integrations save time and resources with more informed scheduling adjustments using real-time data. Plus, cloud-based backups ensure peace of mind if the computer ever needs to be restored.



Maps

PILOT™ FIELD CONTROLLER SYSTEMS

The sleek, clean design of Pilot Field Controllers makes them easy to install, use, and maintain.

KEY BENEFITS

- Five languages
- Up to 80 station outputs in 10-station increments
- Up to three Hunter golf Valve-in-Head Technology rotors per station output
- Up to 20 simultaneous Hunter golf Valve-in-Head Technology rotors active per controller
- 32 automatic schedules with eight start times per schedule
- Exclusive Safe-Toggle™ Technology for mechanical on-off-auto station switches
- 1 to 31 day skip-day scheduling
- One-touch rain shutdown up to 30 days or indefinitely
- One-touch Safe-Pause™ Technology with 30-minute safety timer
- 1% to 300% run time seasonal adjustment
- Seasonal start time adjustment is used to quickly change all start times plus or minus 30 minutes
- PilotFCP Utility enables remote scheduling from a computer or tablet for basic course irrigation management



Pilot-FC Plastic Pedestal

Height: 100 cm
Width: 60 cm
Depth: 44 cm
Weight: 32 kg

POWER SUPPLY INPUT

Two voltage settings:

- 120 VAC nominal voltage at 60/50 Hz (100 to 132 VAC)
- 230 VAC nominal voltage at 50/60 Hz (200 to 260 VAC)

Current requirement:

- 1 A under load at 110 VAC
- 0.7 A under load at 230 VAC

For additional information, see electrical data on **page 65**.



Pilot-FI Field Interface

One is required with any Pilot Network system. It is used to link the central computer to the field equipment. For indoor locations only.

Height: 30 cm
Width: 30 cm
Depth: 11 cm
Weight: 2 kg

OUTPUT VOLTAGE

- Station: 1 A at 24 VAC
- Hot post: 0.4 A at 24 VAC
- Capacity: Three standard 24 VAC Hunter golf rotors per output; 20 maximum simultaneously running stations

RADIO SYSTEMS

- UHF radio: 450 to 490 MHz; other UHF frequencies available for selected markets

WIRED SYSTEMS

- GCBL: Two twisted pairs of shielded wire, 0.82 mm²
- GCBLA: Armoured, shielded two twisted pairs, 0.82 mm²

PILOT-FI - SPECIFICATION BUILDER: ORDER 1 + 2 + 3

1 Model	2 Standard Features	3 Communication Options
Pilot-FI	Plastic pedestal (grey)	HWR Hardwire communications UHFA UHF radio (licence required)

Examples:

Pilot-FI-HWR = Field Interface with hardwire communications

Pilot-FI-UHFA = Field Interface with UHFA radio communications

THE PILOT FIELD CONTROLLER IS ENGINEERED EXCLUSIVELY FOR GOLF COURSE IRRIGATION MANAGEMENT

Water-Resistant Keypad
Large backlit display with convenient function buttons for the most commonly used features. Built-in system diagnostics make troubleshooting your system a breeze.

Safe-Toggle Station Switches and Diagnostic LED Indicators
Standard for all station outputs, these features provide quick troubleshooting and watering tools.

Conveniently Located Dual-Voltage (120/230 VAC) Junction Box
Features heavy-duty surge protection and even includes a spare fuse.



Easy to Service
The only tool required is a Phillips screwdriver, which is included with every controller.

Modular 10-Station Expansion Boards
Colour-coded modular components have captured screws. This means no more lost screws, which simplifies assembly and troubleshooting.

Spacious Wiring Area
No exposed circuitry or loose wires. All circuit boards are encapsulated in polyurethane to protect them from moisture, insects, and temperature extremes.

PILOT-FC – SPECIFICATION BUILDER: ORDER 1 + 2 + 3

1 Model	2 Standard Features	3 Communication Options
Pilot-FC20 (20-station)	Plastic pedestal (grey) 120/230 VAC, 60/50 Hz dual-voltage transformer	S Standalone Field Controller with no central communications
Pilot-FC30 (30-station)		HWR Wired communications
Pilot-FC40 (40-station)		UHFA UHF radio (licence required, Australia only)
Pilot-FC50 (50-station)		
Pilot-FC60 (60-station)		
Pilot-FC70 (70-station)		
Pilot-FC80 (80-station)		

Examples:

Pilot-FC40-S = 40-station, standalone Field Controller with no central communications

Pilot-FC70-HWR = 70-station Field Controller with wired communications

PILOT™ INTEGRATED HUB SYSTEMS

Save money without sacrificing in-field sprinkler control with highly flexible and reliable Pilot Integrated Hub Systems.

Integrated Hub Systems use significantly less wire than conventional systems. This means lower costs, faster installation, and easier system diagnosis and repair if needed. They can be easily expanded — with minimal digging and disruption of turf — by adding more Pilot Two-Way Modules (TWMs) instead of running additional wires.

Pilot Two-Way Modules are available with 1-, 2-, 4-, and 6-station outputs, making it possible to run each head on an entire green with a single device. In all, TWMs let you operate about 1,000 stations up to approximately 2.5 km from a single hub.

Pilot Two-Way Modules include built-in surge suppression, wirelessly programmable station addresses using the ICD-HP Programmer, and two-way communication with confirmation and status indication. Pilot Surge Suppressors are required when the system is installed with integrated TWMs.

The PilotFCP Utility enables remote scheduling from a computer or tablet for basic course irrigation management. It can be directly connected to a Pilot Field Controller, eliminating the need for a Pilot Field Interface and communication module in smaller systems.



TWM Hub

Water-Resistant Keypad

The backlit display and illuminated control panel mean you can easily access the hub, day or night

Diagnostic LED Indicators

For all functions on 250-station output modules

250-Station Output Modules

Enable your Integrated Hub System to expand with your course; start with 250 and grow to 999

Pilot TWMs

1- and 2-station:
Height: 9 cm
Width: 4 cm
Depth: 2.5 cm
Weight: 150 g

4- and 6-station:
Height: 9 cm
Width: 4.5 cm
Depth: 4 cm
Weight: 250 g



The distinct yellow design makes it much easier to find the modules in dark valve boxes or buried in the soil.

Pilot Surge Suppressor

All integrated TWM rotors include two DBRY-6 Splice Connectors for connection to the two-wire path. Integrated TWM systems require grounding with Pilot Surge Suppressors coupled to an appropriate grounding plate or rod. Hunter recommends a minimum of one Pilot Surge Suppressor for every 12 installed rotors or as per project specification.



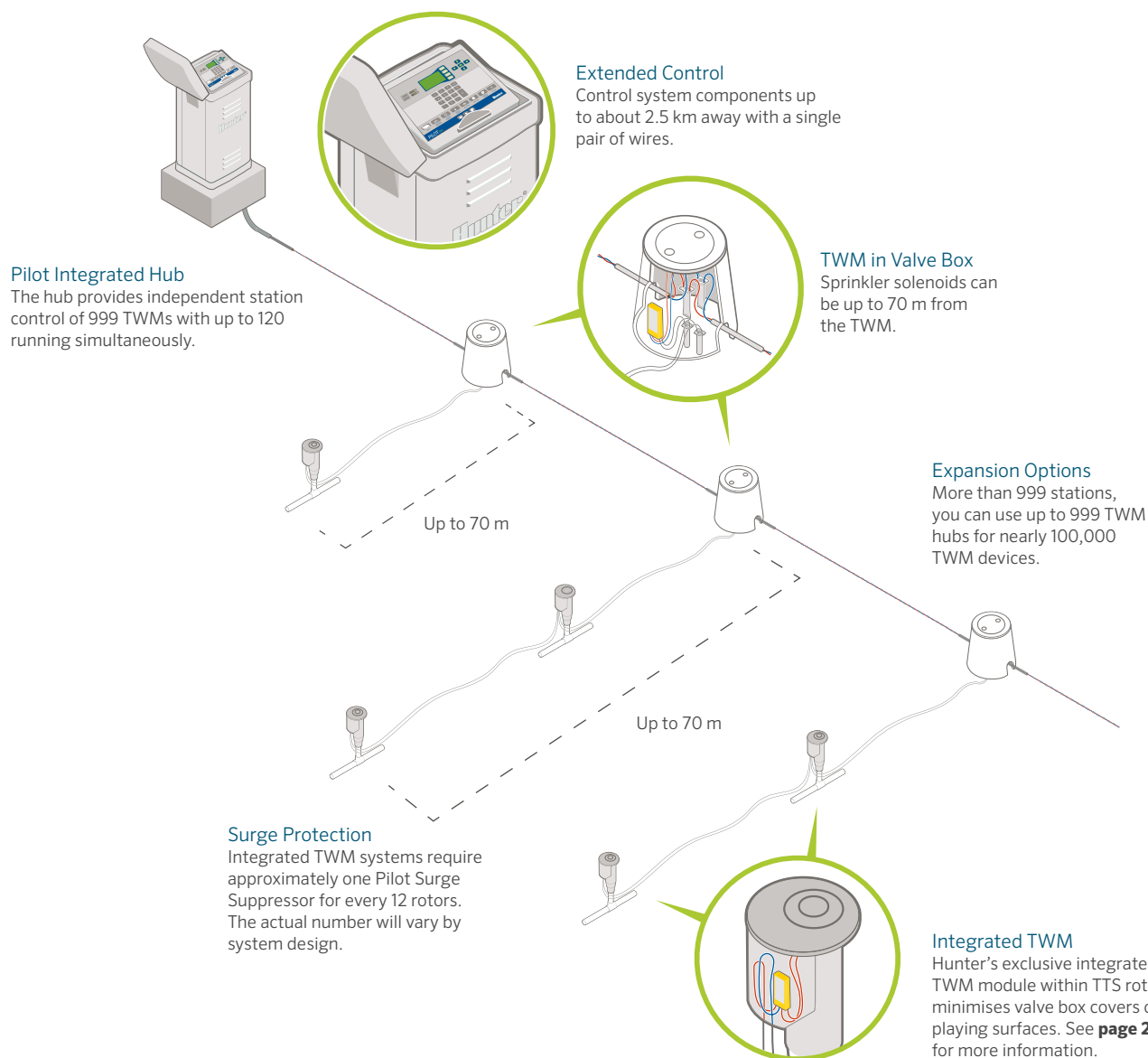
PILOT-DH – SPECIFICATION BUILDER: ORDER 1 + 2 + 3

1 Model	2 Standard Features	3 Communication Options
Pilot-DH250 (250-station)	Plastic pedestal (grey) 120/230 VAC, 60/50 Hz switching transformer	S Standalone TWM hub with no central communications
Pilot-DH500 (500-station)		HWR Wired communications
Pilot-DH750 (750-station)		UHFA UHF radio (licence required)
Pilot-DH999 (999-station)		

Examples:

Pilot-DH250-S = 250-station, standalone TWM hub with no central communications

Pilot-DH999-HWR = 999-station TWM hub with wired communications



TWM - SPECIFICATION BUILDER: ORDER 1 + 2

1	Model	2	Standard Features
Pilot-100	1-station TWM	Built-in surge suppressor Waterproof DBRY-6 Splice Connectors included	
Pilot-200	2-station TWM		
Pilot-400	4-station TWM		
Pilot-600	6-station TWM		
Pilot-SG	Inline surge suppression (for integrated TWM rotor systems)		

Example:
Pilot-100 = 1-station TWM



Wireless Programming

The ICD-HP Programmer is used to test, troubleshoot, and program integrated TWMs. It allows you to wirelessly link directly to TWMs without removing the TTS cover. You can also use it to update the coding inside the TWM's microprocessor.

See the ICD-HP Programmer on **page 13**.

POGO™ HARDWARE

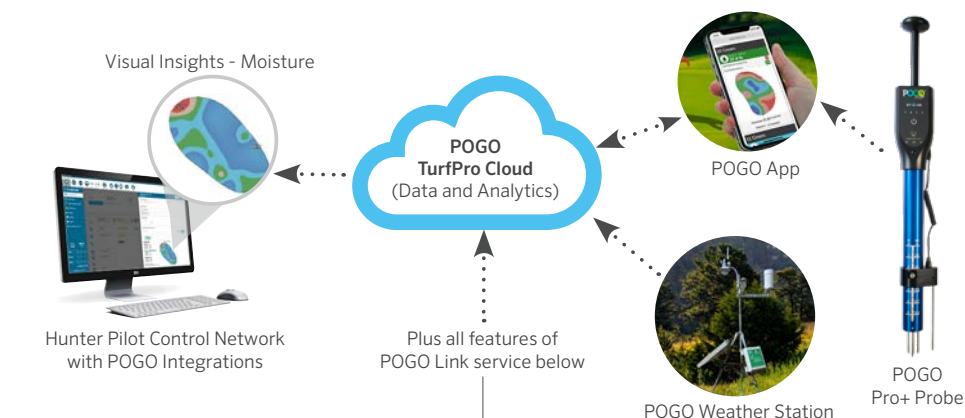
Integrate the unmatched hardware and data analysis from POGO with the power and intuition of the Pilot Control Network to save time, maximise resources, and ensure peak playability.

MANAGE YOUR WAY

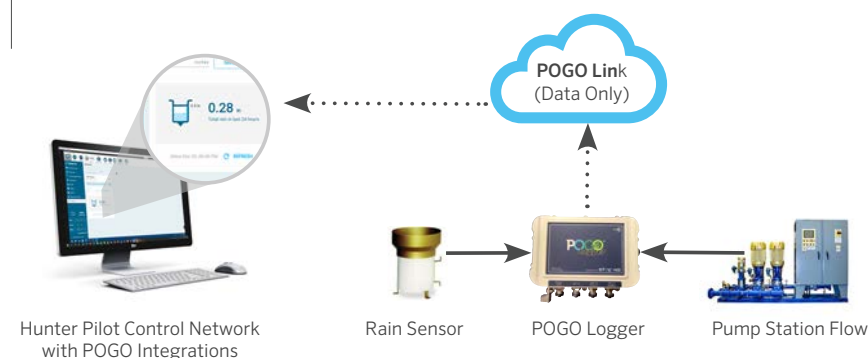
Subscribe to the all-inclusive **POGO TurfPro Cloud** or the sensor-based **POGO Link** service to gain better visibility of your golf course irrigation efficiency.

- Achieve optimum irrigation efficiency with more informed scheduling adjustments using real-time soil moisture, salinity, and temperature data
- Better understand turfgrass performance between irrigation cycles
- Identify and address problem areas with colour-coded graphics that highlight turf in need of immediate attention — often before symptoms appear

- 1 POGO TurfPro Cloud – Data and Analytics with Advanced Visual Insights**
 Proactively drive improved, consistent playability by knowing the exact conditions of your turf.



- 2 POGO Link Service – Data Only**
 Make more informed irrigation adjustments by monitoring key environmental data in real time.



POGO HARDWARE

Catalogue Number	Part Description
POGO-PRO-PLUS	POGO Pro+ Tool with Temperature Sensor. Active TurfPro Cloud subscription* required.
POGO-PRO-PLUS-KIT	POGO Pro+ Tool with Temperature Sensor, Case, Cart Mount, and Replacement Sensor. Active TurfPro Cloud subscription* required.
POGO-LOGGER-I	POGO Data Logger with cellular communication for use with other sensors. Active data plan subscription* required.
POGO-RAIN-CAN	POGO Rain Can - 15 cm Tipping Precipitation Gauge for use with POGO Logger
POGO-SOIL-SENSOR	POGO Soil Sensor - Buried Hydraprobe Root Zone Sensor for use with POGO Logger
POGO-WEATHER-I	POGO Weather Station with cellular communication. Mounting sold separately. Active TurfPro Cloud subscription* required.
POGO-TRI-POD	POGO Tripod Mount for Weather Station

*Go to pogoturfpro.com to set up a subscription.

MAINTENANCE RADIO

Save time and money with seamlessly integrated remote radio control.

KEY BENEFITS

- Hunter's innovative StraightTalk™ Technology enables wireless remote control at ranges up to 3.5 km whether or not the central computer is turned on
- Instant control of stations, blocks, and programs
- Instant audio confirmation of commands
- Easy commands that show in display before sending
- Compact size, industrial construction
- Suitable for two-way voice communication with crews and office
- High signal output: 2 W, UHF (450 to 490 MHz)*

* Licence required



TRNR Radio

Height: 10.25 cm
Width: 5.25 cm
Depth: 3 cm
Weight: 200 g

ICD-HP PROGRAMMER

Gain wireless, handheld programming and diagnostic capabilities for Pilot Two-Way Modules.

KEY BENEFITS

- Wirelessly program TWM addresses
- Program TWM station numbers in any order or skip stations for future expansion
- Turn stations on and view solenoid status, current in milliamps, and more
- Built-in voltmeter for testing communication path
- Communicates with TWMs directly through plastic case; wireless electromagnetic induction saves waterproof connectors
- Communicates through the top of integrated TWM rotor cases; no cover removal required



ICD-HP Programmer

Height: 21 cm
Width: 9 cm
Depth: 5 cm

Packaged in an outdoor carrying case, this complete kit includes probes, an induction cup, cable, a USB power cable for bench use, and four AA batteries for fieldwork.

ICD-HP PROGRAMMER



ROTOR SOLUTIONS FOR EVERY GOLF COURSE

TTS-800 SERIES: THE MOST ADVANCED ROTORS IN THE GOLF INDUSTRY

Over the last four decades, Hunter Industries has built a longstanding reputation for innovation in the golf industry. Some of our revolutionary inventions include the first Windows-based central control system, the first Total-Top-Service (TTS) rotors, the first Decoder-in-Head (DIH) rotors with integrated Pilot Two-Way Modules, and the powerful and water-efficient G-85 Gear Drives.

Our newest products in this groundbreaking lineup are the TTS-800 Series Golf Rotors — the most innovative and technologically advanced rotors in the industry. Combining accuracy and power, they provide maximum uniformity and longevity in the field. They also reduce the challenges of reclaimed water use or poor water quality, thanks to their high-torque gear drives. The fast-access flange compartment is the golf sector's largest, and it can accommodate full-sized DBRY-6 Splice Connectors. Even routine maintenance is a breeze with Total-Top-Serviceability, which allows for solenoid and pressure regulator servicing without mainline depressurisation.

Whether your golf rotor needs fall into our budget-conscious B Series, advanced G-800 Series, or top-of-the-line TTS-800 Series, Hunter Industries offers a full range of solutions that will exceed your expectations and ensure beautiful, playable courses for years to come.



GOLF ROTORS



Look for this icon. All Hunter Golf rotors are 100% water-tested to ensure reliable operation once installed.



UNIFORMITY **YOU CAN COUNT ON**

Playability and water efficiency go hand-in-hand when it comes to golf course management. This means great distribution uniformity and proper irrigation scheduling are crucial to ensuring world-class performance and beautiful results.

Healthy, playable turf starts with top-level irrigation products — like Hunter's ultra-reliable TTS-800 Series Golf Rotors with superior distribution uniformity. Coupled with the best support team in the business, Hunter's golf solutions are second to none.

At Hunter Golf, we pride ourselves on providing products that set the standard in efficiency. Each year, we work directly with golf course superintendents worldwide to conduct comprehensive irrigation system audits that maximise water savings, reduce operating costs, and enhance the golf experience for players and course managers alike.

For best-in-class performance and enhanced playability, choose Hunter Golf.

BEST-IN-CLASS GEAR DRIVES THAT SET THE STANDARD FOR PLAYABILITY

TTS-800 Series Golf Rotors



LEADING THE WAY WITH POWER, PERFORMANCE, AND VERSATILITY

We've spent decades of research and millions of dollars to develop the best gear drives in the golf industry. When we introduced the G-85 Gear Drive, it quickly earned the respect of golf superintendents for its powerful performance and unmatched reliability. It also became known for its exceptional versatility, which boosted its popularity even more. That's because the adjustable arc drive with triple forward-facing nozzles can be adjusted not only to a non-reversing, full-circle rotation. It also can be configured at the factory as a G-84 Gear Drive in an opposing-nozzle, full-circle configuration.

But we didn't stop there. Next, we added the direct-drive G-80 — a hybrid version that blends the G-85's outstanding platform with the proven G-80 Gearbox to create the best full-circle drive for the golf sector. Today, this revolutionary gear drive technology powers our full range of TTS-800 Series, G-800 Series, and B Series Golf Rotors. No matter which rotor is best for your golf irrigation needs, you can rest assured knowing that the most powerful gear drives in the industry will deliver long-lasting performance in every application.

GREATER FLEXIBILITY WITH DUAL-TRAJECTORY NOZZLES



Standard Nozzles



Low-Angle Nozzles

To ensure precise distribution uniformity, we created a dedicated set of short- and mid-range nozzles to complement our gear drives. When combined with the primary nozzles that the G-80, G-84, and G-85 share, they deliver precise targeting for any application.

Choose from a wide assortment of wind-fighting 22.5° standard trajectory nozzles or 15° low-angle trajectory nozzles. For maximum throw, uniform distribution, and reliable performance under any condition, Hunter gear drives offer everything you need.

TTS-800 SERIES GOLF ROTORS

ADVANCED FEATURES

With Total-Top-Service (TTS) Technology



Access Everything Through the Top

This no-dig solution is appreciated by golfers, management, and especially the superintendent



Large and Flexible Yardage Marker Capabilities

Oversized marker plates with standard black or red, white, blue, and purple options



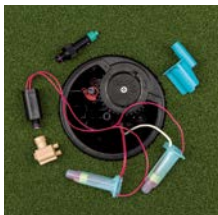
Largest Flange VIH Compartment in the Industry

Spacious cavity with enough room for full-sized DBRY-6 Splice Connectors



Unitised Inlet Valve Design Includes Serviceable Components

Contamination damage is quickly resolved with replaceable valve seat and seat seal



Easy Access and Servicing of Solenoid and Pressure Regulators

Colour-coded components are removed and replaced without mainline depressurisation



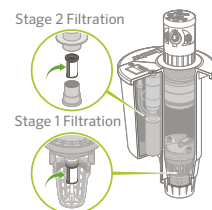
Exclusive Inlet Valve Includes Self-Cleaning Capabilities

Proprietary Filter Sentry™ Mechanism wipes debris from the stainless steel screen with every activation



Single-Point Fast-Access to Flange Compartment

Extra-thick compartment lid is retained with stainless steel 1/4-turn fastener



Two-Stage Serviceable Filtration in Valve Circuitry

Oversized stainless steel screens at inlet valve and pilot valve are easily cleaned or replaced



Heavy-Duty Flanged and Ribbed Body Design

Impact-resistant and ultra-durable design includes extra-strength PVC Acme inlet



Three Cable Entry Ports at Base of Flange Compartment

Makes splice and cable connections fast, easy, and organised



Low-Bounce Rubber Cover Kit

Impact-absorbing design reduces ball ricochet around the greens



No-Bounce Turf Cup Kit

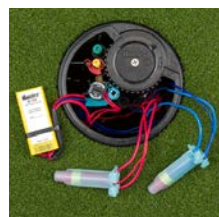
Recessed turf cup design is aesthetically clean and eliminates ball ricochet





Access Everything, Including Two-Way Modules, Through the Top

This no-dig solution is appreciated by golfers, management, and especially the superintendent



Largest Flange DIH Compartment in the Industry

Spacious cavity with enough room for Pilot™ Two-Way Modules and full-sized DBRY-6 Splice Connectors



Two-Way Modules Are Housed in the DIH Rotor's Spacious Flange Compartment

Improves playability and eliminates unsightly enclosures around the course



Programming Two-Way Modules Wirelessly From the Surface with No Disassembly

Quick and easy to program and perform diagnostics before or after installation with ICD-HP Programmer

TTS-800 SERIES GOLF ROTORS

ADVANCED FEATURES

With Integrated Two-Way Modules



Individual Two-Way Module and Solenoid Components Within Flange Compartment

Isolated/separated configuration minimises yearly maintenance costs



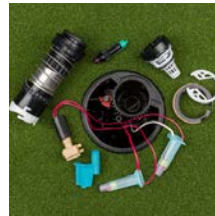
Two-Station DIH Rotor Option

Perfect cost-effective solution for back-to-back heads around greens



State-of-the-Art Surge Suppression

Earth grounding is easily added with the Pilot Surge Suppressor



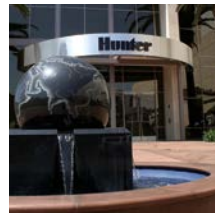
DIH Rotors Include All the Unique Features and Benefits of TTS Rotors

Makes splice and cable connections fast, easy, and clean



Seamless, No-Splice Connection Between Two-Way Module and Solenoid

Maintains ongoing electrical continuity with no connectors required



Durability, Efficiency, and Reliability from the Makers of the Industry's First TTS and DIH Rotors

Peace of mind from the world's leading producer of gear-driven rotors

TTS-800 SERIES



These rotors have Total-Top-Serviceability, powerful, high-torque gear drives, and the largest flange compartment in the industry to accommodate all Pilot™ Two-Way Module components.

KEY BENEFITS

- Dedicated, true full-circle model distinguished by a black collar
- Extra-large, fast-access flange compartment to accommodate full-size DBRY-6 Splice Connectors and an integrated Pilot Two-Way Module
- Solenoid and pressure regulator are serviceable without system depressurisation
- Exclusive PressurePort™ Technology optimises incoming pressure at each nozzle to increase consistency and maximise distribution uniformity
- High-torque gear drive is the strongest in the industry to mitigate the challenges of debris infiltration
- Proprietary Filter Sentry™ Mechanism cleans the filter with every opening and closing cycle
- All TTS-800 Series Golf Rotors advanced features listed on **pages 18 to 21**

OPERATING SPECIFICATIONS

- Radius: 14.9 to 29.6 m
- Flow: 3.23 to 13.29 m³/hr; 53.8 to 221.4 l/min
- Pressure range: 3.4 to 6.9 bar; 340 to 690 kPa
- All TTS rotors are pressure-rated at 10 bar; 1,000 kPa
- Nozzle range: 15 to 53
 - 10 standard trajectory (22.5°) nozzles
 - 9 low-angle trajectory (15°) nozzles

OPTIONS

- C – Check-O-Matic Technology checks up to 8 m in elevation change and readily converts to normally open hydraulic with through-the-top connections
- D – Decoder Valve-in-Head Technology with all “E” specifications below*
- DD – Two-station decoder Valve-in-Head Technology with all “E” specifications below*
- E – Electric Valve-in-Head Technology with adjustable pressure regulation, on-off-auto selector, 210 mA (370 mA inrush) 50 Hz; 190 mA (350 mA inrush) 60 Hz solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two DBRY-6 Splice Connectors for connection to the two-wire path. See **page 11** for critical recommendations on grounding DIH rotors.



GT-880

Pop-up height: 9.5 cm
Overall height: 30 cm
Flange diameter: 18 cm
Female inlet: 1½" (40 mm) Acme

GT-880 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Valve Options	3 Nozzle	4 Regulation
GT-880 = Full-circle	C = Check-O-Matic Technology* D = Decoder Valve-in-Head Technology DD = Two-station decoder Valve-in-Head Technology E = Electric Valve-in-Head Technology *Converts to N.O. hydraulic Valve-in-Head Technology	15 to 53 = Installed G-880 nozzle	P5 = 50 PSI; 3.4 bar; 340 kPa (nozzles 15 to 18) P6 = 65 PSI; 4.5 bar; 450 kPa (nozzles 18 to 25) P8 = 80 PSI; 5.5 bar; 550 kPa (nozzles 25 to 53)

Example:

GT-880-E-48-P8 = GT-880 full-circle electric Valve-in-Head Technology, installed 48 nozzle, 80 PSI; 5.5 bar; 550 kPa regulation

GT-880 NOZZLE PERFORMANCE DATA*

Nozzle Set			Pressure		Radius	Flow		Precip mm/hr	
			bar	kPa	m	m ³ /hr	l/min	■	▲
●	○	●	3.4	344	14.9	3.23	53.8	14.5	16.7
Tan	15	Grey	4.1	413	15.5	3.57	59.4	14.8	17.0
803611	White	315317	4.5	450	15.9	3.73	62.1	14.8	17.1
			4.8	482	16.2	3.86	64.4	14.8	17.1
			5.5	551	16.8	4.13	68.9	14.7	17.0
●	○	●	3.4	344	17.1	3.91	65.1	13.4	15.5
Tan	18	Grey	4.1	413	17.7	4.28	71.3	13.7	15.8
803611	Orange	315317	4.5	450	18.0	4.48	74.6	13.8	16.0
			4.8	482	18.3	4.54	75.7	13.6	15.7
			5.5	551	18.6	4.82	80.3	13.9	16.1
●	○	●	3.4	344	17.4	4.18	69.7	13.8	16.0
Tan	20	Grey	4.1	413	18.0	4.61	76.8	14.3	16.5
803611	Tan	315317	4.5	450	18.6	4.86	81.0	14.1	16.2
			4.8	482	19.2	4.91	81.8	13.3	15.4
			5.5	551	19.5	5.16	85.9	13.5	15.6
●	○	●	3.4	344	19.2	4.91	81.8	13.3	15.4
Tan	23	Lt. Blue	4.1	413	19.8	5.22	87.1	13.3	15.4
803611	Green	315311	4.5	450	20.1	5.45	90.8	13.5	15.6
			4.8	482	20.4	5.66	94.3	13.6	15.7
			5.5	551	20.7	6.04	100.7	14.1	16.2
●	○	●	4.5	450	21.6	6.50	108.3	13.9	16.0
Tan	25	Lt. Blue	4.8	482	22.3	6.75	112.5	13.6	15.7
803611	Blue	315311	5.5	551	22.6	7.19	119.8	14.1	16.3
			6.2	620	22.9	7.65	127.5	14.6	16.9
			6.9	689	23.5	8.12	135.3	14.7	17.0
●	○	●	4.5	450	22.6	7.02	117.0	13.8	15.9
Tan	33	Lt. Blue	4.8	482	22.9	7.27	121.1	13.9	16.1
803611	Grey	315311	5.5	551	23.5	7.77	129.5	14.1	16.3
			6.2	620	24.1	8.22	137.0	14.2	16.4
			6.9	689	24.7	8.68	144.6	14.2	16.4
●	○	●	4.5	450	23.5	7.97	132.9	14.5	16.7
Tan	38	Lt. Blue	4.8	482	24.1	8.31	138.5	14.3	16.6
803611	Red	315311	5.5	551	25.0	8.84	147.3	14.1	16.3
			6.2	620	25.6	9.38	156.3	14.3	16.5
			6.9	689	26.5	9.90	165.0	14.1	16.3
●	○	●	-	-	-	-	-	-	-
Tan	43	Blue	4.8	482	25.3	9.38	156.3	14.7	16.9
803611	Dk. Brown	315300	5.5	551	25.9	9.90	165.0	14.8	17.0
			6.2	620	26.5	10.52	175.3	15.0	17.3
			6.9	689	27.1	11.09	184.7	15.1	17.4
●	○	●	-	-	-	-	-	-	-
Dk. Brown	48	Dk. Blue	4.8	482	27.4	10.65	177.5	14.2	16.3
803610	Dk. Green	833500	5.5	551	28.0	11.11	185.1	14.1	16.3
			6.2	620	28.7	11.46	191.0	14.0	16.1
			6.9	689	29.3	12.15	202.5	14.2	16.4
●	○	●	-	-	-	-	-	-	-
Dk. Brown	53	Dk. Blue	4.8	482	27.7	11.31	188.5	14.7	17.0
803610	Dk. Blue	833500	5.5	551	28.3	11.86	197.7	14.8	17.0
			6.2	620	29.0	12.61	210.1	15.0	17.4
			6.9	689	29.6	13.29	221.4	15.2	17.6

* Complies to ASAE standard. All precipitation rates calculated for 360° operation. All triangular rates are equilateral. To calculate precipitation rates for 180° operation, multiply by 2.

GT-880 STANDARD NOZZLES



GT-880 LOW-ANGLE NOZZLES**



** Low-angle nozzles reduce the radius by 15%.



Easy-Access Servicing

An extra-thick compartment lid is retained with a ¼-turn, stainless steel, single-point fastener.



Spacious Flange Compartment

The largest and deepest compartment in the industry offers plenty of room for full-sized DBRY-6 Splice Connectors.

TTS-800 SERIES



These rotors have *Total-Top-Serviceability*, powerful, high-torque gear drives, and the largest flange compartment in the industry to accommodate all Pilot™ Two-Way Module components.

KEY BENEFITS

- Adjustable model distinguished by a grey collar that comes factory set in a true full-circle configuration
- Extra-large, fast-access flange compartment to accommodate full-size DBRY-6 Splice Connectors and an integrated Pilot Two-Way Module
- Solenoid and pressure regulator are serviceable without system depressurisation
- Exclusive PressurePort™ Technology optimises incoming pressure at each nozzle to increase consistency and maximise distribution uniformity
- High-torque gear drive is the strongest in the industry to mitigate the challenges of debris infiltration
- Proprietary Filter Sentry™ Mechanism cleans the filter with every opening and closing cycle
- All TTS-800 Series Golf Rotors advanced features listed on **pages 18 to 21**



GT-884

Pop-up height: 9.5 cm
Overall height: 30 cm
Flange diameter: 18 cm
Female inlet: 1½" (40 mm) Acme

OPERATING SPECIFICATIONS

- Radius: 14.9 to 29.6 m
- Flow: 3.23 to 13.29 m³/hr; 53.8 to 221.4 l/min
- Pressure range: 3.4 to 6.9 bar; 340 to 690 kPa
- All TTS rotors are pressure-rated at 10 bar; 1,000 kPa
- Nozzle range: 15 to 53
 - 10 standard trajectory (22.5°) nozzles
 - 9 low-angle trajectory (15°) nozzles

OPTIONS

- C – Check-O-Matic Technology checks up to 8 m in elevation change and readily converts to normally open hydraulic with through-the-top connections
- D – Decoder Valve-in-Head Technology with all “E” specifications below*
- DD – Two-station decoder Valve-in-Head Technology with all “E” specifications below*
- E – Electric Valve-in-Head Technology with adjustable pressure regulation, on-off-auto selector, 210 mA (370 mA inrush) 50 Hz; 190 mA (350 mA inrush) 60 Hz solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two DBRY-6 Splice Connectors for connection to the two-wire path. See **page 11** for critical recommendations on grounding DIH rotors.

GT-884 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Valve Options	3 Nozzle	4 Regulation
GT-884 = Full-circle (convertible to forward-facing adjustable arc rotor)	C = Check-O-Matic Technology* D = Decoder Valve-in-Head Technology DD = Two-station decoder Valve-in-Head Technology E = Electric Valve-in-Head Technology * Converts to N.O. hydraulic Valve-in-Head Technology	15 to 53 = Installed G-880 nozzle	P5 = 50 PSI; 3.4 bar; 340 kPa (nozzles 15 to 18) P6 = 65 PSI; 4.5 bar; 450 kPa (nozzles 18 to 25) P8 = 80 PSI; 5.5 bar; 550 kPa (nozzles 25 to 53)

Example:

GT-884-E-48-P8 = GT-884 full-circle electric Valve-in-Head Technology, installed 48 nozzle, 80 PSI; 5.5 bar; 550 kPa regulation

GT-884 NOZZLE PERFORMANCE DATA*

Nozzle Set			Pressure		Radius	Flow		Precip mm/hr	
			bar	kPa	m	m ³ /hr	l/min	■	▲
●	●	●	3.4	344	14.9	3.23	53.8	14.5	16.7
Tan	15	Grey	4.1	413	15.5	3.57	59.4	14.8	17.0
803611	White	315317	4.5	450	15.9	3.73	62.1	14.8	17.1
●	●	●	4.8	482	16.2	3.86	64.4	14.8	17.1
●	●	●	5.5	551	16.8	4.13	68.9	14.7	17.0
●	●	●	3.4	344	17.1	3.91	65.1	13.4	15.5
Tan	18	Grey	4.1	413	17.7	4.28	71.3	13.7	15.8
803611	Orange	315317	4.5	450	18.0	4.48	74.6	13.8	16.0
●	●	●	4.8	482	18.3	4.54	75.7	13.6	15.7
●	●	●	5.5	551	18.6	4.82	80.3	13.9	16.1
●	●	●	3.4	344	17.4	4.18	69.7	13.8	16.0
Tan	20	Grey	4.1	413	18.0	4.61	76.8	14.3	16.5
803611	Tan	315317	4.5	450	18.6	4.86	81.0	14.1	16.2
●	●	●	4.8	482	19.2	4.91	81.8	13.3	15.4
●	●	●	5.5	551	19.5	5.16	85.9	13.5	15.6
●	●	●	3.4	344	19.2	4.91	81.8	13.3	15.4
Tan	23	Lt. Blue	4.1	413	19.8	5.22	87.1	13.3	15.4
803611	Green	315311	4.5	450	20.1	5.45	90.8	13.5	15.6
●	●	●	4.8	482	20.4	5.66	94.3	13.6	15.7
●	●	●	5.5	551	20.7	6.04	100.7	14.1	16.2
●	●	●	4.5	450	21.6	6.50	108.3	13.9	16.0
Tan	25	Lt. Blue	4.8	482	22.3	6.75	112.5	13.6	15.7
803611	Blue	315311	5.5	551	22.6	7.19	119.8	14.1	16.3
●	●	●	6.2	620	22.9	7.65	127.5	14.6	16.9
●	●	●	6.9	689	23.5	8.12	135.3	14.7	17.0
●	●	●	4.5	450	22.6	7.02	117.0	13.8	15.9
Tan	33	Lt. Blue	4.8	482	22.9	7.27	121.1	13.9	16.1
803611	Grey	315311	5.5	551	23.5	7.77	129.5	14.1	16.3
●	●	●	6.2	620	24.1	8.22	137.0	14.2	16.4
●	●	●	6.9	689	24.7	8.68	144.6	14.2	16.4
●	●	●	4.5	450	23.5	7.97	132.9	14.5	16.7
Tan	38	Lt. Blue	4.8	482	24.1	8.31	138.5	14.3	16.6
803611	Red	315311	5.5	551	25.0	8.84	147.3	14.1	16.3
●	●	●	6.2	620	25.6	9.38	156.3	14.3	16.5
●	●	●	6.9	689	26.5	9.90	165.0	14.1	16.3
●	●	●	-	-	-	-	-	-	-
Tan	43	Blue	4.8	482	25.3	9.38	156.3	14.7	16.9
803611	Dk. Brown	315300	5.5	551	25.9	9.90	165.0	14.8	17.0
●	●	●	6.2	620	26.5	10.52	175.3	15.0	17.3
●	●	●	6.9	689	27.1	11.09	184.7	15.1	17.4
●	●	●	-	-	-	-	-	-	-
Dk. Brown	48	Dk. Blue	4.8	482	27.4	10.65	177.5	14.2	16.3
803610	Dk. Green	833500	5.5	551	28.0	11.11	185.1	14.1	16.3
●	●	●	6.2	620	28.7	11.46	191.0	14.0	16.1
●	●	●	6.9	689	29.3	12.15	202.5	14.2	16.4
●	●	●	-	-	-	-	-	-	-
Dk. Brown	53	Dk. Blue	4.8	482	27.7	11.31	188.5	14.7	17.0
803610	Dk. Blue	833500	5.5	551	28.3	11.86	197.7	14.8	17.0
●	●	●	6.2	620	29.0	12.61	210.1	15.0	17.4
●	●	●	6.9	689	29.6	13.29	221.4	15.2	17.6

* Complies to ASAE standard. All precipitation rates calculated for 360° operation. All triangular rates are equilateral. To calculate precipitation rates for 180° operation, multiply by 2.

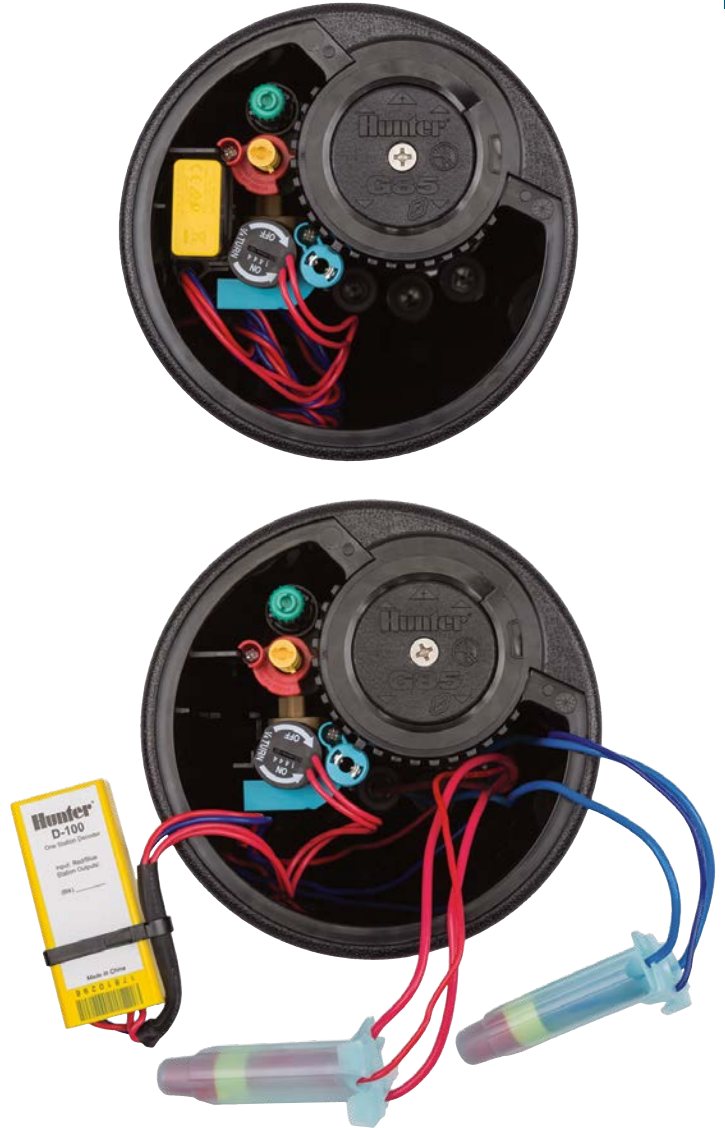
GT-884 STANDARD NOZZLES



GT-884 LOW-ANGLE NOZZLES**



** Low-angle nozzles reduce the radius by 15%.



Room to Spare

Adding a Pilot™ Two-Way Module does not reduce flange compartment space. The exclusive configuration provides extra room for full-sized DBRY-6 Splice Connectors and multiple cables.

TTS-800 SERIES



These rotors have Total-Top-Serviceability, powerful, high-torque gear drives, and the largest flange compartment in the industry to accommodate all Pilot™ Two-Way Module components.

KEY BENEFITS

- Adjustable model distinguished by a grey collar that comes factory set in a part-circle configuration (60° to 360°)
- Extra-large, fast access flange compartment to accommodate full-size DBRY-6 Splice Connectors and an integrated Pilot Two-Way Module
- Solenoid and pressure regulator are serviceable without system depressurisation
- Exclusive PressurePort™ Technology optimises incoming pressure at each nozzle to increase consistency and maximise distribution uniformity
- High-torque gear drive is the strongest in the industry to mitigate the challenges of debris infiltration
- Proprietary Filter Sentry™ Mechanism cleans the filter with every opening and closing cycle
- All TTS-800 Series Golf Rotors advanced features listed on **pages 18 to 21**

OPERATING SPECIFICATIONS

- Radius: 11.3 to 28.7 m
- Flow: 2.02 to 13.54 m³/hr; 33.7 to 225.6 l/min
- Pressure range: 3.4 to 6.9 bar; 340 to 690 kPa
- All TTS rotors are pressure-rated at 10 bar; 1,000 kPa
- Nozzle range: 10 to 53
 - 12 standard trajectory (22.5°) nozzles
 - 9 low-angle trajectory (15°) nozzles

OPTIONS

- C – Check-O-Matic Technology checks up to 8 m in elevation change and readily converts to normally open hydraulic with through-the-top connections
- D – Decoder Valve-in-Head Technology with all “E” specifications below*
- DD – Two-station decoder Valve-in-Head Technology with all “E” specifications below*
- E – Electric Valve-in-Head Technology with adjustable pressure regulation, on-off-auto selector, 210 mA (370 mA inrush) 50 Hz; 190 mA (350 mA inrush) 60 Hz solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two DBRY-6 Splice Connectors for connection to the two-wire path. See **page 11** for critical recommendations on grounding DIH rotors.



GT-885

Pop-up height: 9.5 cm
Overall height: 30 cm
Flange diameter: 18 cm
Female inlet: 1½" (40 mm) Acme













GT-885 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Valve Options	3 Nozzle	4 Regulation
GT-885 = Full/part-circle, 60° to 360° arc range	C = Check-O-Matic Technology* D = Decoder Valve-in-Head Technology DD = Two-station decoder Valve-in-Head Technology E = Electric Valve-in-Head Technology *Converts to N.O. hydraulic Valve-in-Head Technology	10 to 53 = Installed G-885 nozzle	P5 = 50 PSI; 3.4 bar; 340 kPa (nozzles 10 to 18) P6 = 65 PSI; 4.5 bar; 450 kPa (nozzles 18 to 25) P8 = 80 PSI; 5.5 bar; 550 kPa (nozzles 25 to 53)

Example:

GT-885-E-48-P8 = GT-885 full/part-circle electric Valve-in-Head Technology, installed 48 nozzle, 80 PSI; 5.5 bar; 550 kPa regulation

GT-885 NOZZLE PERFORMANCE DATA*

Nozzle Set			Pressure		Radius	Flow		Precip mm/hr	
			bar	kPa	m	m ³ /hr	l/min	■	▲
Orange		Dk. Green	3.4	344	11.3	2.02	33.7	15.9	18.4
803603	10	315312	4.1	413	11.9	2.23	37.1	15.8	18.2
●			4.5	450	12.5	2.32	38.6	14.8	17.1
	Lt. Green	●	-	-	-	-	-	-	-
Orange		White	3.4	344	14.3	2.59	43.2	12.6	14.6
803603	13	315314	4.1	413	14.6	2.79	46.6	13.1	15.1
●			4.5	450	14.9	2.93	48.8	13.1	15.2
	Lt. Blue	●	-	-	-	-	-	-	-
Orange		White	3.4	344	15.9	2.93	48.8	11.7	13.5
803603	15	315314	4.1	413	15.9	3.29	54.9	13.1	15.1
●			4.5	450	16.2	3.38	56.4	13.0	15.0
	White	●	4.8	482	16.2	3.52	58.7	13.5	15.6
			5.5	551	16.5	3.75	62.5	13.8	16.0
Orange		Lt. Green	3.4	344	17.4	3.77	62.8	12.5	14.4
803603	18	315313	4.1	413	17.7	4.04	67.4	12.9	14.9
●			4.5	450	18.0	4.23	70.4	13.1	15.1
	Orange	●	4.8	482	18.3	4.41	73.4	13.2	15.2
			5.5	551	18.6	4.66	77.6	13.5	15.6
Orange		Lt. Green	3.4	344	18.0	4.07	67.8	12.6	14.5
803603	20	315313	4.1	413	18.6	4.43	73.8	12.8	14.8
●			4.5	450	18.9	4.50	75.0	12.6	14.5
	Tan	●	4.8	482	19.2	4.68	78.0	12.7	14.7
			5.5	551	19.5	5.02	83.7	13.2	15.2
Orange		Lt. Green	3.4	344	19.8	4.59	76.5	11.7	13.5
803603	23	315313	4.1	413	20.1	5.02	83.7	12.4	14.3
●			4.5	450	20.4	5.43	90.5	13.0	15.0
	Green	●	4.8	482	20.4	5.50	91.6	13.2	15.2
			5.5	551	21.0	5.88	98.0	13.3	15.4
Red		Green	4.5	450	21.6	6.43	107.1	13.7	15.8
803602	25	315310	4.8	482	21.9	6.66	110.9	13.8	16.0
●			5.5	551	22.3	7.16	119.2	14.5	16.7
	Blue	●	6.2	620	22.6	7.59	126.4	14.9	17.2
			6.9	689	22.9	8.04	134.0	15.4	17.8
Red		Green	4.5	450	21.9	6.95	115.8	14.4	16.7
803602	33	315310	4.8	482	22.3	7.18	119.6	14.5	16.7
●			5.5	551	22.9	7.70	128.3	14.7	17.0
	Grey	●	6.2	620	23.5	8.13	135.5	14.8	17.0
			6.9	689	24.1	8.61	143.5	14.8	17.1
Red		Green	4.5	450	23.2	7.93	132.1	14.8	17.1
803602	38	315310	4.8	482	23.8	8.22	137.0	14.5	16.8
●			5.5	551	24.4	8.88	148.0	14.9	17.2
	Red	●	6.2	620	25.0	9.36	156.0	15.0	17.3
			6.9	689	25.6	9.88	164.7	15.1	17.4
Red		Green	-	-	-	-	-	-	-
803602	43	315310	4.8	482	24.7	9.36	156.0	15.4	17.7
●			5.5	551	25.3	9.88	164.7	15.4	17.8
	Dk. Brown	●	6.2	620	26.2	10.49	174.9	15.3	17.6
			6.9	689	27.1	11.06	184.3	15.0	17.4
Dk. Red		Dk. Green	-	-	-	-	-	-	-
803601	48	315312	4.8	482	25.3	10.52	175.3	16.4	19.0
●			5.5	551	25.9	10.99	183.2	16.4	18.9
	Dk. Green	●	6.2	620	27.1	11.74	195.7	16.0	18.4
			6.9	689	27.7	12.38	206.3	16.1	18.6
Dk. Red		Dk. Green	-	-	-	-	-	-	-
803601	53	315312	4.8	482	26.5	11.52	191.9	16.4	18.9
●			5.5	551	27.1	12.06	201.0	16.4	18.9
	Dk. Blue	●	6.2	620	28.0	12.81	213.5	16.3	18.8
			6.9	689	28.7	13.54	225.6	16.5	19.0

● = Nozzle plug P/N 315300 installed in the back side of the nozzle housing.

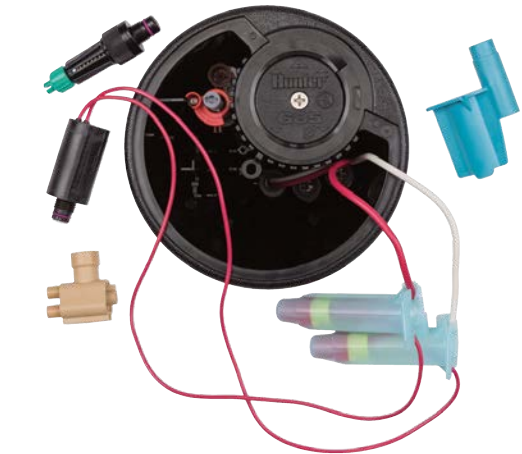
* Complies to ASAE standard. All precipitation rates calculated for 360° operation. All triangular rates are equilateral. To calculate precipitation rates for 180° operation, multiply by 2.

GT-885 STANDARD NOZZLES

GT-885 LOW-ANGLE NOZZLES**



** Low-angle nozzles reduce the radius by 15%.



Reduced Downtime

There is no need to depressurise the mainline for solenoid and pressure regulator servicing.



Total-Top-Service Solution

From the originators of TTS Technology, Hunter's no-dig TTS-800 Series Golf Rotors provide total-top-servicing of every serviceable component.

TTS-800 SERIES



These rotors have Total-Top-Serviceability, shorter-radius, lower-flow internals, and the largest flange compartment in the industry to accommodate all Pilot™ Two-Way Module components.

KEY BENEFITS

- Adjustable, shorter-radius model (50° to 360°)
- Extra-large, fast-access flange compartment to accommodate full-size DBRY-6 Splice Connectors and an integrated Pilot Two-Way Module
- Solenoid and pressure regulator are serviceable without system depressurisation
- Proprietary Filter Sentry™ Mechanism cleans the filter with every opening and closing cycle
- All TTS-800 Series Golf Rotors advanced features listed on **pages 18 to 21**

OPERATING SPECIFICATIONS

- Radius: 5.5 to 15.2 m
- Flow: 0.43 to 2.91 m³/hr; 7.2 to 48.5 l/min
- Pressure range: 2.8 to 4.5 bar; 280 to 450 kPa
- All TTS rotors are pressure-rated at 10 bar; 1,000 kPa
- Nozzle range: 2 to 12

OPTIONS

- C – Check-O-Matic Technology checks up to 8 m in elevation change and readily converts to normally open hydraulic with through-the-top connections
- D – Decoder Valve-in-Head Technology with all “E” specifications below*
- DD – Two-station decoder Valve-in-Head Technology with all “E” specifications below*
- E – Electric Valve-in-Head Technology with adjustable pressure regulation, on-off-auto selector, 210 mA (370 mA inrush) 50 Hz; 190 mA (350 mA inrush) 60 Hz solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two DBRY-6 Splice Connectors for connection to the two-wire path. See **page 11** for critical recommendations on grounding DIH rotors.



GT-835
Pop-up height: 8 cm
Overall height: 30 cm
Flange diameter: 18 cm
Female inlet: 1½" (40 mm) Acme

GT-835 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4			
1 Model	2 Valve Options	3 Nozzle	4 Regulation
GT-835 = Full/part-circle, 50° to 360°	C = Check-O-Matic Technology* D = Decoder Valve-in-Head Technology E = Electric Valve-in-Head Technology *Converts to N.O. hydraulic Valve-in-Head Technology	6 = Installed G-835 nozzle (includes 8-nozzle rack)	P5 = 50 PSI; 3.4 bar; 340 kPa (nozzles 18 to 25) P6 = 65 PSI; 4.5 bar; 450 kPa (nozzles 18 to 25)

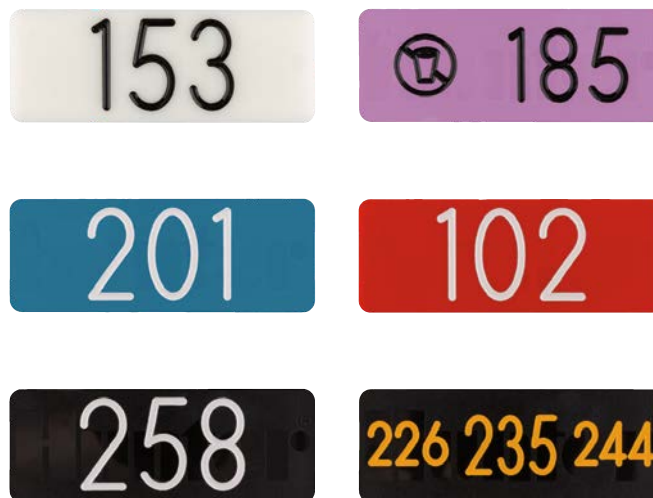
Example:
GT-835-6-P5 = GT-835 full/part-circle electric Valve-in-Head Technology, installed 6 nozzle, 50 PSI; 3.4 bar; 340 kPa regulation

GT-835 NOZZLE PERFORMANCE DATA*

Nozzle	Pressure		Radius	Flow		Precip mm/hr	
	bar	kPa	m	m ³ /hr	l/min	■	▲
2 ● Yellow	2.8	280	5.5	0.43	7.2	14.3	16.6
	3.4	340	6.1	0.48	7.9	12.8	14.8
	4.1	410	6.7	0.55	9.1	12.1	14.0
	4.5	450	7.0	0.59	9.8	12.0	13.9
3 ● Yellow	2.8	280	7.0	0.68	11.4	13.9	16.0
	3.4	340	7.6	0.73	12.1	12.5	14.5
	4.1	410	8.2	0.80	13.2	11.7	13.6
	4.5	450	8.5	0.82	13.6	11.2	13.0
4 ● Yellow	2.8	280	7.6	0.89	14.8	15.3	17.6
	3.4	340	8.5	0.93	15.5	12.8	14.8
	4.1	410	9.1	1.00	16.7	12.0	13.8
	4.5	450	9.4	1.04	17.4	11.7	13.5
5 ● Yellow	2.8	280	8.8	1.07	17.8	13.7	15.8
	3.4	340	9.8	1.14	18.9	11.9	13.8
	4.1	410	10.1	1.20	20.1	11.9	13.7
	4.5	450	10.7	1.23	20.4	10.8	12.4
6 ● Yellow	2.8	280	9.8	1.36	22.7	14.3	16.5
	3.4	340	10.7	1.43	23.8	12.6	14.5
	4.1	410	11.3	1.50	25.0	11.8	13.6
	4.5	450	11.9	1.54	25.7	10.9	12.6
8 ● Yellow	2.8	280	11.0	1.77	29.5	14.7	17.0
	3.4	340	11.9	1.82	30.3	12.9	14.8
	4.1	410	12.8	1.89	31.4	11.5	13.3
	4.5	450	13.1	1.93	32.2	11.2	13.0
10 ● Yellow	2.8	280	11.9	2.20	36.7	15.6	18.0
	3.4	340	13.1	2.29	38.2	13.4	15.4
	4.1	410	13.7	2.34	39.0	12.4	14.4
	4.5	450	14.3	2.39	39.7	11.6	13.4
12 ● Yellow	2.8	280	13.4	2.73	45.4	15.2	17.5
	3.4	340	14.3	2.77	46.2	13.5	15.6
	4.1	410	14.6	2.84	47.3	13.3	15.3
	4.5	450	15.2	2.91	48.5	12.5	14.5

* Complies to ASAE standard. All precipitation rates calculated for 360° operation. All triangular rates are equilateral. To calculate precipitation rates for 180° operation, multiply by 2.

GT-835 NOZZLES



Optional Yardage Marker Colours

Extra-large, snap-in marker plates are available in standard black as well as optional red, white, and blue to meet every golf course preference. Or choose the purple plate for identification when courses are using reclaimed water.



Low-Bounce Rubber Cover Kit - P/N 987200SP

Reduce the incoming bounce from balls hitting rotors that are surrounding the greens.



No-Bounce Turf Cup Kit - P/N 987100SP

Eliminate errant bounces from balls hitting greens-surrounding rotors with this subsurface rotor-mounting solution.

G-800 SERIES



These rotors feature convenient, no-dig Total-Top-Serviceability and a powerful, high-torque gear drive.

KEY BENEFITS

- Dedicated, true full-circle model distinguished by a black collar
- Exclusive PressurePort™ Technology optimises incoming pressure at each nozzle to increase consistency and maximise distribution uniformity
- High-torque gear drive is the strongest in the industry to mitigate the challenges of debris infiltration
- Proprietary Filter Sentry™ Mechanism cleans the filter with every opening and closing cycle

OPERATING SPECIFICATIONS

- Radius: 14.9 to 29.6 m
- Flow: 3.23 to 13.29 m³/hr; 53.8 to 221.4 l/min
- Pressure range: 3.4 to 6.9 bar; 340 to 690 kPa
- All TTS rotors are pressure-rated at 10 bar; 1,000 kPa
- Nozzle range: 15 to 53
 - 10 standard trajectory (22.5°) nozzles
 - 9 low-angle trajectory (15°) nozzles

OPTIONS

- C – Check-O-Matic Technology checks up to 8 m in elevation change and readily converts to normally open hydraulic with through-the-top connections
- D – Decoder Valve-in-Head Technology with all “E” specifications below*
- DD – Two-station decoder Valve-in-Head Technology with all “E” specifications below*
- E – Electric Valve-in-Head Technology with adjustable pressure regulation, on-off-auto selector, 210 mA (370 mA inrush) 50 Hz; 190 mA (350 mA inrush) 60 Hz solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two DBRY-6 Splice Connectors for connection to the two-wire path. See **page 11** for critical recommendations on grounding DIH rotors.



G-880C

Pop-up height: 9.5 cm
Overall height: 30 cm
Flange diameter: 18 cm
Female inlet: 1½" (40 mm) Acme



G-880E

Pop-up height: 9.5 cm
Overall height: 30 cm
Flange diameter: 18 cm
Female inlet: 1½" (40 mm) Acme

G-880 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Valve Options	3 Nozzle	4 Regulation
G-880 = Full-circle	C = Check-O-Matic Technology* D = Decoder Valve-in-Head Technology DD = Two-station decoder Valve-in-Head Technology E = Electric Valve-in-Head Technology *Converts to N.O. hydraulic Valve-in-Head Technology	15 to 53 = Installed G-880 nozzle	P5 = 50 PSI; 3.4 bar; 340 kPa (nozzles 15 to 18) P6 = 65 PSI; 4.5 bar; 450 kPa (nozzles 18 to 25) P8 = 80 PSI; 5.5 bar; 550 kPa (nozzles 25 to 53)

Example:

G-880-E-33-P8 = G-880 full-circle electric Valve-in-Head Technology, installed 33 nozzle, 80 PSI; 5.5 bar; 550 kPa regulation

G-880 NOZZLE PERFORMANCE DATA*

Nozzle Set			Pressure		Radius		Flow		Precip mm/hr	
			bar	kPa	m	m ³ /hr	l/min		■	▲
●	●	●	3.4	344	14.9	3.23	53.8	14.5	16.7	
Tan	15	Grey	4.1	413	15.5	3.57	59.4	14.8	17.0	
803611	White	315317	4.5	450	15.9	3.73	62.1	14.8	17.1	
			4.8	482	16.2	3.86	64.4	14.8	17.1	
			5.5	551	16.8	4.13	68.9	14.7	17.0	
●	●	●	3.4	344	17.1	3.91	65.1	13.4	15.5	
Tan	18	Grey	4.1	413	17.7	4.28	71.3	13.7	15.8	
803611	Orange	315317	4.5	450	18.0	4.48	74.6	13.8	16.0	
			4.8	482	18.3	4.54	75.7	13.6	15.7	
			5.5	551	18.6	4.82	80.3	13.9	16.1	
●	●	●	3.4	344	17.4	4.18	69.7	13.8	16.0	
Tan	20	Grey	4.1	413	18.0	4.61	76.8	14.3	16.5	
803611	Tan	315317	4.5	450	18.6	4.86	81.0	14.1	16.2	
			4.8	482	19.2	4.91	81.8	13.3	15.4	
			5.5	551	19.5	5.16	85.9	13.5	15.6	
●	●	●	3.4	344	19.2	4.91	81.8	13.3	15.4	
Tan	23	Lt. Blue	4.1	413	19.8	5.22	87.1	13.3	15.4	
803611	Green	315311	4.5	450	20.1	5.45	90.8	13.5	15.6	
			4.8	482	20.4	5.66	94.3	13.6	15.7	
			5.5	551	20.7	6.04	100.7	14.1	16.2	
●	●	●	4.5	450	21.6	6.50	108.3	13.9	16.0	
Tan	25	Lt. Blue	4.8	482	22.3	6.75	112.5	13.6	15.7	
803611	Blue	315311	5.5	551	22.6	7.19	119.8	14.1	16.3	
			6.2	620	22.9	7.65	127.5	14.6	16.9	
			6.9	689	23.5	8.12	135.3	14.7	17.0	
●	●	●	4.5	450	22.6	7.02	117.0	13.8	15.9	
Tan	33	Lt. Blue	4.8	482	22.9	7.27	121.1	13.9	16.1	
803611	Grey	315311	5.5	551	23.5	7.77	129.5	14.1	16.3	
			6.2	620	24.1	8.22	137.0	14.2	16.4	
			6.9	689	24.7	8.68	144.6	14.2	16.4	
●	●	●	4.5	450	23.5	7.97	132.9	14.5	16.7	
Tan	38	Lt. Blue	4.8	482	24.1	8.31	138.5	14.3	16.6	
803611	Red	315311	5.5	551	25.0	8.84	147.3	14.1	16.3	
			6.2	620	25.6	9.38	156.3	14.3	16.5	
			6.9	689	26.5	9.90	165.0	14.1	16.3	
●	●	●	-	-	-	-	-	-	-	
Tan	43	Blue	4.8	482	25.3	9.38	156.3	14.7	16.9	
803611	Dk. Brown	315300	5.5	551	25.9	9.90	165.0	14.8	17.0	
			6.2	620	26.5	10.52	175.3	15.0	17.3	
			6.9	689	27.1	11.09	184.7	15.1	17.4	
●	●	●	-	-	-	-	-	-	-	
Dk. Brown	48	Dk. Blue	4.8	482	27.4	10.65	177.5	14.2	16.3	
803610	Dk. Green	833500	5.5	551	28.0	11.11	185.1	14.1	16.3	
			6.2	620	28.7	11.46	191.0	14.0	16.1	
			6.9	689	29.3	12.15	202.5	14.2	16.4	
●	●	●	-	-	-	-	-	-	-	
Dk. Brown	53	Dk. Blue	4.8	482	27.7	11.31	188.5	14.7	17.0	
803610	Dk. Blue	833500	5.5	551	28.3	11.86	197.7	14.8	17.0	
			6.2	620	29.0	12.61	210.1	15.0	17.4	
			6.9	689	29.6	13.29	221.4	15.2	17.6	

* Complies to ASAE standard. All precipitation rates calculated for 360° operation. All triangular rates are equilateral. To calculate precipitation rates for 180° operation, multiply by 2.

G-880 STANDARD NOZZLES



G-880 LOW-ANGLE NOZZLES**



** Low-angle nozzles reduce the radius by 15%.



TTS Means Convenience and Versatility

With TTS Technology, every serviceable component of the rotor can be easily accessed anytime with no servicing mess.

G-800 SERIES



These rotors feature convenient, no-dig Total-Top-Serviceability and a powerful, high-torque gear drive.

KEY BENEFITS

- Adjustable model distinguished by a grey collar that comes factory set in a true full-circle configuration
- Exclusive PressurePort™ Technology optimises incoming pressure at each nozzle to increase consistency and maximise distribution uniformity
- High-torque gear drive is the strongest in the industry to mitigate the challenges of debris infiltration
- Proprietary Filter Sentry™ Mechanism cleans the filter with every opening and closing cycle

OPERATING SPECIFICATIONS

- Radius: 14.9 to 29.6 m
- Flow: 3.23 to 13.29 m³/hr; 53.8 to 221.4 l/min
- Pressure range: 3.4 to 6.9 bar; 340 to 690 kPa
- All TTS rotors are pressure-rated at 10 bar; 1,000 kPa
- Nozzle range: 15 to 53
 - 10 standard trajectory (22.5°) nozzles
 - 9 low-angle trajectory (15°) nozzles

OPTIONS

- C – Check-O-Matic Technology checks up to 8 m in elevation change and readily converts to normally open hydraulic with through-the-top connections
- D – Decoder Valve-in-Head Technology with all “E” specifications below*
- DD – Two-station decoder Valve-in-Head Technology with all “E” specifications below*
- E – Electric Valve-in-Head Technology with adjustable pressure regulation, on-off-auto selector, 210 mA (370 mA inrush) 50 Hz; 190 mA (350 mA inrush) 60 Hz solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two DBRY-6 Splice Connectors for connection to the two-wire path. See **page 11** for critical recommendations on grounding DIH rotors.



G-884C

Pop-up height: 9.5 cm
Overall height: 30 cm
Flange diameter: 18 cm
Female inlet: 1½" (40 mm) Acme



G-884E

Pop-up height: 9.5 cm
Overall height: 30 cm
Flange diameter: 18 cm
Female inlet: 1½" (40 mm) Acme

G-884 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Valve Options	3 Nozzle	4 Regulation
G-884 = Full-circle (convertible to forward-facing adjustable arc rotor)	C = Check-O-Matic Technology* D = Decoder Valve-in-Head Technology DD = Two-station decoder Valve-in-Head Technology E = Electric Valve-in-Head Technology *Converts to N.O. hydraulic Valve-in-Head Technology	15 to 53 = Installed G-880 nozzle	P5 = 50 PSI; 3.4 bar; 340 kPa (nozzles 15 to 18) P6 = 65 PSI; 4.5 bar; 450 kPa (nozzles 18 to 25) P8 = 80 PSI; 5.5 bar; 550 kPa (nozzles 25 to 53)

Example:

G-884-E-33-P8 = G-884 full-circle electric Valve-in-Head Technology, installed 33 nozzle, 80 PSI; 5.5 bar; 550 kPa regulation

G-884 NOZZLE PERFORMANCE DATA*

Nozzle Set			Pressure		Radius		Flow		Precip mm/hr	
			bar	kPa	m	m ³ /hr	l/min		■	▲
●	●	●	3.4	344	14.9	3.23	53.8	14.5	16.7	
Tan	15	Grey	4.1	413	15.5	3.57	59.4	14.8	17.0	
803611	White	315317	4.5	450	15.9	3.73	62.1	14.8	17.1	
			4.8	482	16.2	3.86	64.4	14.8	17.1	
			5.5	551	16.8	4.13	68.9	14.7	17.0	
●	●	●	3.4	344	17.1	3.91	65.1	13.4	15.5	
Tan	18	Grey	4.1	413	17.7	4.28	71.3	13.7	15.8	
803611	Orange	315317	4.5	450	18.0	4.48	74.6	13.8	16.0	
			4.8	482	18.3	4.54	75.7	13.6	15.7	
			5.5	551	18.6	4.82	80.3	13.9	16.1	
●	●	●	3.4	344	17.4	4.18	69.7	13.8	16.0	
Tan	20	Grey	4.1	413	18.0	4.61	76.8	14.3	16.5	
803611	Tan	315317	4.5	450	18.6	4.86	81.0	14.1	16.2	
			4.8	482	19.2	4.91	81.8	13.3	15.4	
			5.5	551	19.5	5.16	85.9	13.5	15.6	
●	●	●	3.4	344	19.2	4.91	81.8	13.3	15.4	
Tan	23	Lt. Blue	4.1	413	19.8	5.22	87.1	13.3	15.4	
803611	Green	315311	4.5	450	20.1	5.45	90.8	13.5	15.6	
			4.8	482	20.4	5.66	94.3	13.6	15.7	
			5.5	551	20.7	6.04	100.7	14.1	16.2	
●	●	●	4.5	450	21.6	6.50	108.3	13.9	16.0	
Tan	25	Lt. Blue	4.8	482	22.3	6.75	112.5	13.6	15.7	
803611	Blue	315311	5.5	551	22.6	7.19	119.8	14.1	16.3	
			6.2	620	22.9	7.65	127.5	14.6	16.9	
			6.9	689	23.5	8.12	135.3	14.7	17.0	
●	●	●	4.5	450	22.6	7.02	117.0	13.8	15.9	
Tan	33	Lt. Blue	4.8	482	22.9	7.27	121.1	13.9	16.1	
803611	Grey	315311	5.5	551	23.5	7.77	129.5	14.1	16.3	
			6.2	620	24.1	8.22	137.0	14.2	16.4	
			6.9	689	24.7	8.68	144.6	14.2	16.4	
●	●	●	4.5	450	23.5	7.97	132.9	14.5	16.7	
Tan	38	Lt. Blue	4.8	482	24.1	8.31	138.5	14.3	16.6	
803611	Red	315311	5.5	551	25.0	8.84	147.3	14.1	16.3	
			6.2	620	25.6	9.38	156.3	14.3	16.5	
			6.9	689	26.5	9.90	165.0	14.1	16.3	
●	●	●	-	-	-	-	-	-	-	
Tan	43	Blue	4.8	482	25.3	9.38	156.3	14.7	16.9	
803611	Dk. Brown	315300	5.5	551	25.9	9.90	165.0	14.8	17.0	
			6.2	620	26.5	10.52	175.3	15.0	17.3	
			6.9	689	27.1	11.09	184.7	15.1	17.4	
●	●	●	-	-	-	-	-	-	-	
Dk. Brown	48	Dk. Blue	4.8	482	27.4	10.65	177.5	14.2	16.3	
803610	Dk. Green	833500	5.5	551	28.0	11.11	185.1	14.1	16.3	
			6.2	620	28.7	11.46	191.0	14.0	16.1	
			6.9	689	29.3	12.15	202.5	14.2	16.4	
●	●	●	-	-	-	-	-	-	-	
Dk. Brown	53	Dk. Blue	4.8	482	27.7	11.31	188.5	14.7	17.0	
803610	Dk. Blue	833500	5.5	551	28.3	11.86	197.7	14.8	17.0	
			6.2	620	29.0	12.61	210.1	15.0	17.4	
			6.9	689	29.6	13.29	221.4	15.2	17.6	

* Complies to ASAE standard. All precipitation rates calculated for 360° operation. All triangular rates are equilateral. To calculate precipitation rates for 180° operation, multiply by 2.

G-884 STANDARD NOZZLES



G-884 LOW-ANGLE NOZZLES**



** Low-angle nozzles reduce radius by 15%



G-885 Rotor with Total-Top-Serviceability and Decoder-in-Head Technology

TTS Flange Compartment

All TTS rotors include ample room for solenoid splice connections and a Pilot™ Two-Way Module when needed.

G-800 SERIES



These rotors feature convenient, no-dig Total-Top-Serviceability and a powerful, high-torque gear drive.

KEY BENEFITS

- Adjustable model distinguished by a grey collar that comes factory set in a part-circle configuration (60° to 360°)
- Exclusive PressurePort™ Technology optimises incoming pressure at each nozzle to increase consistency and maximise distribution uniformity
- High-torque gear drive is the strongest in the industry to mitigate the challenges of debris infiltration
- Proprietary Filter Sentry™ Mechanism cleans the filter with every opening and closing cycle

OPERATING SPECIFICATIONS

- Radius: 11.3 to 28.7 m
- Flow: 2.02 to 13.54 m³/hr; 33.7 to 225.6 l/min
- Pressure range: 3.4 to 6.9 bar; 340 to 690 kPa
- All TTS rotors are pressure-rated at 10 bar; 1,000 kPa
- Nozzle range: 10 to 53
 - 12 standard trajectory (22.5°) nozzles
 - 9 low-angle trajectory (15°) nozzles

OPTIONS

- C – Check-O-Matic Technology checks up to 8 m in elevation change and readily converts to normally open hydraulic with through-the-top connections
- D – Decoder Valve-in-Head Technology with all “E” specifications below*
- DD – Two-station decoder Valve-in-Head Technology with all “E” specifications below*
- E – Electric Valve-in-Head Technology with adjustable pressure regulation, on-off-auto selector, 210 mA (370 mA inrush) 50 Hz; 190 mA (350 mA inrush) 60 Hz solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two DBRY-6 Splice Connectors for connection to the two-wire path. See **page 11** for critical recommendations on grounding DIH rotors.



G-885C

Pop-up height: 9.5 cm
Overall height: 30 cm
Flange diameter: 18 cm
Female inlet: 1½" (40 mm) Acme



G-885E

Pop-up height: 9.5 cm
Overall height: 30 cm
Flange diameter: 18 cm
Female inlet: 1½" (40 mm) Acme













G-885 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Valve Options	3 Nozzle	4 Regulation
G-885 = Full/part-circle 60° to 360° arc range	C = Check-O-Matic Technology* D = Decoder Valve-in-Head Technology DD = Two-station decoder Valve-in-Head Technology E = Electric Valve-in-Head Technology *Converts to N.O. hydraulic Valve-in-Head Technology	10 to 53 = Installed G-885 nozzle	P5 = 50 PSI; 3.4 bar; 340 kPa (nozzles 10 to 18) P6 = 65 PSI; 4.5 bar; 450 kPa (nozzles 18 to 25) P8 = 80 PSI; 5.5 bar; 550 kPa (nozzles 25 to 53)

Example:

G-885-E-33-P8 = G-885 full/part-circle electric Valve-in-Head Technology, installed 33 nozzle, 80 PSI; 5.5 bar; 550 kPa regulation

G-885 NOZZLE PERFORMANCE DATA*

Nozzle Set			Pressure		Radius	Flow		Precip mm/hr	
			bar	kPa	m	m ³ /hr	l/min	■	▲
Orange		Dk. Green	3.4	344	11.3	2.02	33.7	15.9	18.4
803603	10	315312	4.1	413	11.9	2.23	37.1	15.8	18.2
●			4.5	450	12.5	2.32	38.6	14.8	17.1
			-	-	-	-	-	-	-
Orange		White	3.4	344	14.3	2.59	43.2	12.6	14.6
803603	13	315314	4.1	413	14.6	2.79	46.6	13.1	15.1
●			4.5	450	14.9	2.93	48.8	13.1	15.2
			-	-	-	-	-	-	-
Orange		White	3.4	344	15.9	2.93	48.8	11.7	13.5
803603	15	315314	4.1	413	15.9	3.29	54.9	13.1	15.1
●			4.5	450	16.2	3.38	56.4	13.0	15.0
			4.8	482	16.2	3.52	58.7	13.5	15.6
			5.5	551	16.5	3.75	62.5	13.8	16.0
Orange		Lt. Green	3.4	344	17.4	3.77	62.8	12.5	14.4
803603	18	315313	4.1	413	17.7	4.04	67.4	12.9	14.9
●			4.5	450	18.0	4.23	70.4	13.1	15.1
			4.8	482	18.3	4.41	73.4	13.2	15.2
			5.5	551	18.6	4.66	77.6	13.5	15.6
Orange		Lt. Green	3.4	344	18.0	4.07	67.8	12.6	14.5
803603	20	315313	4.1	413	18.6	4.43	73.8	12.8	14.8
●			4.5	450	18.9	4.50	75.0	12.6	14.5
			4.8	482	19.2	4.68	78.0	12.7	14.7
			5.5	551	19.5	5.02	83.7	13.2	15.2
Orange		Lt. Green	3.4	344	19.8	4.59	76.5	11.7	13.5
803603	23	315313	4.1	413	20.1	5.02	83.7	12.4	14.3
●			4.5	450	20.4	5.43	90.5	13.0	15.0
			4.8	482	20.4	5.50	91.6	13.2	15.2
			5.5	551	21.0	5.88	98.0	13.3	15.4
Red		Green	4.5	450	21.6	6.43	107.1	13.7	15.8
803602	25	315310	4.8	482	21.9	6.66	110.9	13.8	16.0
●			5.5	551	22.3	7.16	119.2	14.5	16.7
			6.2	620	22.6	7.59	126.4	14.9	17.2
			6.9	689	22.9	8.04	134.0	15.4	17.8
Red		Green	4.5	450	21.9	6.95	115.8	14.4	16.7
803602	33	315310	4.8	482	22.3	7.18	119.6	14.5	16.7
●			5.5	551	22.9	7.70	128.3	14.7	17.0
			6.2	620	23.5	8.13	135.5	14.8	17.0
			6.9	689	24.1	8.61	143.5	14.8	17.1
Red		Green	4.5	450	23.2	7.93	132.1	14.8	17.1
803602	38	315310	4.8	482	23.8	8.22	137.0	14.5	16.8
●			5.5	551	24.4	8.88	148.0	14.9	17.2
			6.2	620	25.0	9.36	156.0	15.0	17.3
			6.9	689	25.6	9.88	164.7	15.1	17.4
Red		Green	-	-	-	-	-	-	-
803602	43	315310	4.8	482	24.7	9.36	156.0	15.4	17.7
●			5.5	551	25.3	9.88	164.7	15.4	17.8
			6.2	620	26.2	10.49	174.9	15.3	17.6
			6.9	689	27.1	11.06	184.3	15.0	17.4
Dk. Red		Dk. Green	-	-	-	-	-	-	-
803601	48	315312	4.8	482	25.3	10.52	175.3	16.4	19.0
●			5.5	551	25.9	10.99	183.2	16.4	18.9
			6.2	620	27.1	11.74	195.7	16.0	18.4
			6.9	689	27.7	12.38	206.3	16.1	18.6
Dk. Red		Dk. Green	-	-	-	-	-	-	-
803601	53	315312	4.8	482	26.5	11.52	191.9	16.4	18.9
●			5.5	551	27.1	12.06	201.0	16.4	18.9
			6.2	620	28.0	12.81	213.5	16.3	18.8
			6.9	689	28.7	13.54	225.6	16.5	19.0

● = Nozzle plug P/N 315300 installed in the back side of the nozzle housing.

* Complies to ASAE standard. All precipitation rates calculated for 360° operation. All triangular rates are equilateral. To calculate precipitation rates for 180° operation, multiply by 2.

G-885 STANDARD NOZZLES

G-885 LOW-ANGLE NOZZLES**











** Low-angle nozzles reduce the radius by 15%.



Contour Back-Nozzle Capabilities

Whether you want a little extra green behind your adjustable arc TTS rotors or a more modeled look to your fairway's hard edges, contour back-nozzles are here to make your vision a reality. Choose from four short-range or four mid-range nozzles to suit your needs.

CONTOUR BACK-NOZZLE PERFORMANCE DATA

P/N	Colour	Profile	4.5 Bar		5.5 Bar	
			Metres	L/M	Metres	L/M
803604	Peach		7.6	12.9	8.2	14.8
803603	Orange		8.5	14.4	8.8	15.9
803602	Red		9.4	15.9	10.1	17.0
803601	Dk. Red		10.4	17.4	11.0	18.5
315314	White		11.3	10.6	11.6	11.0
315313	Lt. Green		12.8	16.3	13.4	17.8
315310	Green		14.0	19.7	14.6	21.6
315312	Dk. Green		14.9	29.9	15.5	33.3

GT-885/G-885 CONTOUR BACK-NOZZLES



QuickSet-360 with Ratcheting Riser

Setting up your adjustable arc TTS rotor is fast and simple. The integrated ratcheting mechanism allows a simple twist of the riser to align the right-side reversing point. These rotors are also easily convertible to a true non-reversing full-circle with our exclusive QuickSet-360 feature.

G-800 SERIES



These rotors feature convenient, no-dig Total-Top-Serviceability and a shorter-radius, lower-flow internal.

KEY BENEFITS

- Adjustable, shorter-radius model (50° to 360°)
- Proprietary Filter Sentry™ Mechanism cleans the filter with every opening and closing cycle

OPERATING SPECIFICATIONS

- Radius: 5.5 to 15.2 m
- Flow: 0.43 to 2.91 m³/hr; 7.2 to 48.5 l/min
- Pressure range: 2.8 to 4.5 bar; 280 to 450 kPa
- All TTS rotors are pressure-rated at 10 bar; 1,000 kPa
- Nozzle range: 2 to 12

OPTIONS

- C – Check-O-Matic Technology checks up to 8 m in elevation change and readily converts to normally open hydraulic with through-the-top connections
- D – Decoder Valve-in-Head Technology with all “E” specifications below*
- DD – Two-station decoder Valve-in-Head Technology with all “E” specifications below*
- E – Electric Valve-in-Head Technology with adjustable pressure regulation, on-off-auto selector, 210 mA (370 mA inrush) 50 Hz; 190 mA (350 mA inrush) 60 Hz solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two DBRY-6 Splice Connectors for connection to the two-wire path. See **page 11** for critical recommendations on grounding DIH rotors.



G-835C

Pop-up height: 8 cm
Overall height: 30 cm
Flange diameter: 18 cm
Female inlet: 1½" (40 mm) Acme



G-835E

Pop-up height: 8 cm
Overall height: 30 cm
Flange diameter: 18 cm
Female inlet: 1½" (40 mm) Acme

G-835 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Valve Options	3 Nozzle	4 Regulation
G-835 = Full/part-circle, 50° to 360°	C = Check-O-Matic Technology * D = Decoder Valve-in-Head Technology E = Electric Valve-in-Head Technology *Converts to N.O. hydraulic Valve-in-Head Technology	6 = Installed G-835 nozzle (includes 8-nozzle rack)	P5 = 50 PSI; 3.4 bar; 340 kPa P6 = 65 PSI; 4.5 bar; 450 kPa

Example:

G-835E-6-P6 = G-835 full/part-circle electric Valve-in-Head Technology, installed 6 nozzle, 50 PSI; 3.4 bar; 340 kPa regulation

G-835 NOZZLE PERFORMANCE DATA*

Nozzle	Pressure		Radius	Flow		Precip mm/hr	
	bar	kPa		m ³ /hr	l/min	■	▲
2 ● Yellow	2.8	280	5.5	0.43	7.2	14.3	16.6
	3.4	340	6.1	0.48	7.9	12.8	14.8
	4.1	410	6.7	0.55	9.1	12.1	14.0
	4.5	450	7.0	0.59	9.8	12.0	13.9
3 ● Yellow	2.8	280	7.0	0.68	11.4	13.9	16.0
	3.4	340	7.6	0.73	12.1	12.5	14.5
	4.1	410	8.2	0.80	13.2	11.7	13.6
	4.5	450	8.5	0.82	13.6	11.2	13.0
4 ● Yellow	2.8	280	7.6	0.89	14.8	15.3	17.6
	3.4	340	8.5	0.93	15.5	12.8	14.8
	4.1	410	9.1	1.00	16.7	12.0	13.8
	4.5	450	9.4	1.04	17.4	11.7	13.5
5 ● Yellow	2.8	280	8.8	1.07	17.8	13.7	15.8
	3.4	340	9.8	1.14	18.9	11.9	13.8
	4.1	410	10.1	1.20	20.1	11.9	13.7
	4.5	450	10.7	1.23	20.4	10.8	12.4
6 ● Yellow	2.8	280	9.8	1.36	22.7	14.3	16.5
	3.4	340	10.7	1.43	23.8	12.6	14.5
	4.1	410	11.3	1.50	25.0	11.8	13.6
	4.5	450	11.9	1.54	25.7	10.9	12.6
8 ● Yellow	2.8	280	11.0	1.77	29.5	14.7	17.0
	3.4	340	11.9	1.82	30.3	12.9	14.8
	4.1	410	12.8	1.89	31.4	11.5	13.3
	4.5	450	13.1	1.93	32.2	11.2	13.0
10 ● Yellow	2.8	280	11.9	2.20	36.7	15.6	18.0
	3.4	340	13.1	2.29	38.2	13.4	15.4
	4.1	410	13.7	2.34	39.0	12.4	14.4
	4.5	450	14.3	2.39	39.7	11.6	13.4
12 ● Yellow	2.8	280	13.4	2.73	45.4	15.2	17.5
	3.4	340	14.3	2.77	46.2	13.5	15.6
	4.1	410	14.6	2.84	47.3	13.3	15.3
	4.5	450	15.2	2.91	48.5	12.5	14.5

* Complies to ASAE standard. All precipitation rates calculated for 360° operation. All triangular rates are equilateral. To calculate precipitation rates for 180° operation, multiply by 2.

G-835 NOZZLES



QuickSet-360

With Hunter's QuickCheck Arc Mechanism and patented QuickSet-360 non-reversing full-circle feature in a variable arc rotor, adjustments are fast, easy, and more flexible than ever before. Now available on all TTS-800 Series, G-800 Series, and B Series adjustable arc rotors.

B SERIES



These highly efficient block rotors have a powerful gear drive backed by the reliability synonymous with the Hunter name.

KEY BENEFITS

- Dedicated, true full-circle model distinguished by a black collar
- Exclusive PressurePort™ Technology optimises incoming pressure at each nozzle to increase consistency and maximise distribution uniformity
- High-torque gear drive is the strongest in the industry to mitigate the challenges of debris infiltration

OPERATING SPECIFICATIONS

- G-80-B
 - Radius: 14.9 to 29.6 m
 - Flow: 3.23 to 13.29 m³/hr; 53.8 to 221.4 l/min
 - Pressure range: 3.4 to 6.9 bar; 340 to 690 kPa
- All B Series Golf Rotors are pressure-rated at 10 bar; 1,000 kPa
- Check height up to 2 m in elevation change
- Nozzle range: 15 to 53
 - 10 standard trajectory (22.5°) nozzles
 - 9 low-angle trajectory (15°) nozzles



G-80-B

Pop-up height: 9.5 cm
Overall height: 24.5 cm
Flange diameter: 13.7 cm
Female inlet: 1¼" (32 mm) Acme

G-80-B - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Valve Options	3 Nozzle	4 Options*
G-80 = Full-circle	B = Block rotor with check valve	15 to 53 = Installed G80 nozzle* *SSU = 18, 25, or 48	S = SSU* *Standard stocking unit

Example:

G-80-B-25-S = G-80 full-circle block rotor, installed 25 nozzle, standard stocking unit model

G-80-B NOZZLE PERFORMANCE DATA

Nozzle Set			Pressure		Radius	Flow		Precip mm/hr	
			bar	kPa	m	m³/hr	l/min	■	▲
●	●	●	3.4	344	14.9	3.23	53.8	14.5	16.7
Tan	15	Grey	4.1	413	15.5	3.57	59.4	14.8	17.0
803611	White	315317	4.5	450	15.9	3.73	62.1	14.8	17.1
●	●	●	4.8	482	16.2	3.86	64.4	14.8	17.1
803611	Orange	315317	5.5	551	16.8	4.13	68.9	14.7	17.0
●	●	●	3.4	344	17.1	3.91	65.1	13.4	15.5
Tan	18	Grey	4.1	413	17.7	4.28	71.3	13.7	15.8
803611	Orange	315317	4.5	450	18.0	4.48	74.6	13.8	16.0
●	●	●	4.8	482	18.3	4.54	75.7	13.6	15.7
803611	Tan	315317	5.5	551	18.6	4.82	80.3	13.9	16.1
●	●	●	3.4	344	17.4	4.18	69.7	13.8	16.0
Tan	20	Grey	4.1	413	18.0	4.61	76.8	14.3	16.5
803611	Tan	315317	4.5	450	18.6	4.86	81.0	14.1	16.2
●	●	●	4.8	482	19.2	4.91	81.8	13.3	15.4
803611	Green	315311	5.5	551	19.5	5.16	85.9	13.5	15.6
●	●	●	3.4	344	19.2	4.91	81.8	13.3	15.4
Tan	23	Lt. Blue	4.1	413	19.8	5.22	87.1	13.3	15.4
803611	Green	315311	4.5	450	20.1	5.45	90.8	13.5	15.6
●	●	●	4.8	482	20.4	5.66	94.3	13.6	15.7
803611	Blue	315311	5.5	551	20.7	6.04	100.7	14.1	16.2
●	●	●	4.5	450	21.6	6.50	108.3	13.9	16.0
Tan	25	Lt. Blue	4.8	482	22.3	6.75	112.5	13.6	15.7
803611	Blue	315311	5.5	551	22.6	7.19	119.8	14.1	16.3
●	●	●	6.2	620	22.9	7.65	127.5	14.6	16.9
803611	Grey	315311	6.9	689	23.5	8.12	135.3	14.7	17.0
●	●	●	4.5	450	22.6	7.02	117.0	13.8	15.9
Tan	33	Lt. Blue	4.8	482	22.9	7.27	121.1	13.9	16.1
803611	Grey	315311	5.5	551	23.5	7.77	129.5	14.1	16.3
●	●	●	6.2	620	24.1	8.22	137.0	14.2	16.4
803611	Red	315311	6.9	689	24.7	8.68	144.6	14.2	16.4
●	●	●	4.5	450	23.5	7.97	132.9	14.5	16.7
Tan	38	Lt. Blue	4.8	482	24.1	8.31	138.5	14.3	16.6
803611	Red	315311	5.5	551	25.0	8.84	147.3	14.1	16.3
●	●	●	6.2	620	25.6	9.38	156.3	14.3	16.5
803611	Blue	315300	6.9	689	26.5	9.90	165.0	14.1	16.3
●	●	●	4.8	482	25.3	9.38	156.3	14.7	16.9
Tan	43	Blue	5.5	551	25.9	9.90	165.0	14.8	17.0
803611	Dk. Brown	315300	6.2	620	26.5	10.52	175.3	15.0	17.3
●	●	●	6.9	689	27.1	11.09	184.7	15.1	17.4
803610	Dk. Blue	833500	4.8	482	27.4	10.65	177.5	14.2	16.3
803610	Dk. Green	833500	5.5	551	28.0	11.11	185.1	14.1	16.3
803610	Dk. Blue	833500	6.2	620	28.7	11.46	191.0	14.0	16.1
803610	Dk. Blue	833500	6.9	689	29.3	12.15	202.5	14.2	16.4
●	●	●	4.8	482	27.7	11.31	188.5	14.7	17.0
803610	Dk. Blue	833500	5.5	551	28.3	11.86	197.7	14.8	17.0
803610	Dk. Blue	833500	6.2	620	29.0	12.61	210.1	15.0	17.4
803610	Dk. Blue	833500	6.9	689	29.6	13.29	221.4	15.2	17.6

* Complies to ASAE standard. All precipitation rates calculated for 360° operation. All triangular rates are equilateral.

G-80-B NOZZLES



LOW-ANGLE NOZZLES**



** Low-angle nozzles reduce the radius by 15%.

B SERIES



These highly efficient block rotors have a powerful gear drive backed by the reliability synonymous with the Hunter name.

KEY BENEFITS

- G-84-B
 - Adjustable model distinguished by a grey collar that comes factory set in a true full-circle configuration
 - Exclusive PressurePort™ Technology optimises incoming pressure at each nozzle to increase consistency and maximise distribution uniformity
 - High-torque gear drive is the strongest in the industry to mitigate the challenges of debris infiltration
- G-85-B
 - Adjustable model distinguished by a grey collar that comes factory set in a part-circle configuration (60° to 360°)
 - Exclusive PressurePort™ Technology optimises incoming pressure at each nozzle to increase consistency and maximise distribution uniformity
 - High-torque gear drive is the strongest in the industry to mitigate the challenges of debris infiltration



G-84-B

Pop-up height: 9.5 cm
Overall height: 24.5 cm
Flange diameter: 13.7 cm
Female inlet: 1¼" (30 mm) Acme



G-85-B

Pop-up height: 9.5 cm
Overall height: 24.5 cm
Flange diameter: 13.7 cm
Female inlet: 1¼" (30 mm) Acme

OPERATING SPECIFICATIONS

- G-84-B
 - Radius: 14.9 to 29.6 m
 - Flow: 3.23 to 13.29 m³/hr; 53.8 to 221.4 l/min
 - Pressure range: 3.4 to 6.9 bar; 340 to 690 kPa
 - Check height up to 2 m in elevation change
 - Nozzle range: 15 to 53
 - 10 standard trajectory (22.5°) nozzles
 - 9 low-angle trajectory (15°) nozzles
- G-85-B
 - Radius: 11.3 to 28.7 m
 - Flow: 2.02 to 13.54 m³/hr; 33.7 to 225.6 l/min
 - Pressure range: 3.4 to 6.9 bar; 340 to 690 kPa
 - Check height up to 2 m in elevation change
 - Nozzle range: 10 to 53
 - 12 standard trajectory (22.5°) nozzles
 - 9 low-angle trajectory (15°) nozzles
- All B Series Golf Rotors are pressure-rated at 10 bar; 1,000 kPa

G-84-B & G-85-B - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Valve Options	3 Nozzle	4 Options*
G-84 = Full-circle	B = Block rotor with check valve	15 to 53 = Installed G84 nozzle* *SSU = 18, 25, or 48	S = SSU* *Standard stocking unit
G-85 = Full/part-circle, 60° to 360°	B = Block rotor with check valve	10 to 53 = Installed G85 nozzle** **SSU = 18, 25, or 48	S = SSU* *Standard stocking unit

Example:

G-85-B-25-S = G-85 part-circle block rotor, installed 25 nozzle, standard stocking unit model

G-84-B NOZZLE PERFORMANCE DATA*

Nozzle Set			Pressure		Radius	Flow		Precip mm/hr	
			bar	kPa	m	m ³ /hr	l/min	■	▲
●	○	●	3.4	344	14.9	3.23	53.8	14.5	16.7
Tan	15	Grey	4.1	413	15.5	3.57	59.4	14.8	17.0
803611	White	315317	4.5	450	15.9	3.73	62.1	14.8	17.1
●	○	●	4.8	482	16.2	3.86	64.4	14.8	17.1
803611	Orange	315317	5.5	551	16.8	4.13	68.9	14.7	17.0
●	○	●	3.4	344	17.1	3.91	65.1	13.4	15.5
Tan	18	Grey	4.1	413	17.7	4.28	71.3	13.7	15.8
803611	Orange	315317	4.5	450	18.0	4.48	74.6	13.8	16.0
●	○	●	4.8	482	18.3	4.54	75.7	13.6	15.7
803611	Orange	315317	5.5	551	18.6	4.82	80.3	13.9	16.1
●	○	●	3.4	344	17.4	4.18	69.7	13.8	16.0
Tan	20	Grey	4.1	413	18.0	4.61	76.8	14.3	16.5
803611	Tan	315317	4.5	450	18.6	4.86	81.0	14.1	16.2
●	○	●	4.8	482	19.2	4.91	81.8	13.3	15.4
803611	Tan	315317	5.5	551	19.5	5.16	85.9	13.5	15.6
●	○	●	3.4	344	19.2	4.91	81.8	13.3	15.4
Tan	23	Lt. Blue	4.1	413	19.8	5.22	87.1	13.3	15.4
803611	Green	315311	4.5	450	20.1	5.45	90.8	13.5	15.6
●	○	●	4.8	482	20.4	5.66	94.3	13.6	15.7
803611	Green	315311	5.5	551	20.7	6.04	100.7	14.1	16.2
●	○	●	4.5	450	21.6	6.50	108.3	13.9	16.0
Tan	25	Lt. Blue	4.8	482	22.3	6.75	112.5	13.6	15.7
803611	Blue	315311	5.5	551	22.6	7.19	119.8	14.1	16.3
●	○	●	6.2	620	22.9	7.65	127.5	14.6	16.9
803611	Blue	315311	6.9	689	23.5	8.12	135.3	14.7	17.0
●	○	●	4.5	450	22.6	7.02	117.0	13.8	15.9
Tan	33	Lt. Blue	4.8	482	22.9	7.27	121.1	13.9	16.1
803611	Grey	315311	5.5	551	23.5	7.77	129.5	14.1	16.3
●	○	●	6.2	620	24.1	8.22	137.0	14.2	16.4
803611	Grey	315311	6.9	689	24.7	8.68	144.6	14.2	16.4
●	○	●	4.5	450	23.5	7.97	132.9	14.5	16.7
Tan	38	Lt. Blue	4.8	482	24.1	8.31	138.5	14.3	16.6
803611	Red	315311	5.5	551	25.0	8.84	147.3	14.1	16.3
●	○	●	6.2	620	25.6	9.38	156.3	14.3	16.5
803611	Red	315311	6.9	689	26.5	9.90	165.0	14.1	16.3
●	○	●	-	-	-	-	-	-	-
Tan	43	Blue	4.8	482	25.3	9.38	156.3	14.7	16.9
803611	Dk. Brown	315300	5.5	551	25.9	9.90	165.0	14.8	17.0
●	○	●	6.2	620	26.5	10.52	175.3	15.0	17.3
803611	Dk. Brown	315300	6.9	689	27.1	11.09	184.7	15.1	17.4
●	○	●	-	-	-	-	-	-	-
Dk. Brown	48	Dk. Blue	4.8	482	27.4	10.65	177.5	14.2	16.3
803610	Dk. Green	833500	5.5	551	28.0	11.11	185.1	14.1	16.3
●	○	●	6.2	620	28.7	11.46	191.0	14.0	16.1
803610	Dk. Green	833500	6.9	689	29.3	12.15	202.5	14.2	16.4
●	○	●	-	-	-	-	-	-	-
Dk. Brown	53	Dk. Blue	4.8	482	27.7	11.31	188.5	14.7	17.0
803610	Dk. Blue	833500	5.5	551	28.3	11.86	197.7	14.8	17.0
●	○	●	6.2	620	29.0	12.61	210.1	15.0	17.4
803610	Dk. Blue	833500	6.9	689	29.6	13.29	221.4	15.2	17.6

G-84-B NOZZLES



G-85-B NOZZLES



LOW-ANGLE NOZZLES**



G-85-B NOZZLE PERFORMANCE DATA

Nozzle Set			Pressure		Radius	Flow		Precip mm/hr	
			bar	kPa	m	m ³ /hr	l/min	■	▲
Orange	10	Dk. Green	3.4	344	11.3	2.02	33.7	15.9	18.4
803603	10	315312	4.1	413	11.9	2.23	37.1	15.8	18.2
●	Lt. Green	●	4.5	450	12.5	2.32	38.6	14.8	17.1
●	Lt. Green	●	-	-	-	-	-	-	-
Orange	13	White	3.4	344	14.3	2.59	43.2	12.6	14.6
803603	13	315314	4.1	413	14.6	2.79	46.6	13.1	15.1
●	Lt. Blue	●	4.5	450	14.9	2.93	48.8	13.1	15.2
●	Lt. Blue	●	-	-	-	-	-	-	-
Orange	15	White	3.4	344	15.9	2.93	48.8	11.7	13.5
803603	15	315314	4.1	413	15.9	3.29	54.9	13.1	15.1
●	White	●	4.5	450	16.2	3.38	56.4	13.0	15.0
●	White	●	4.8	482	16.2	3.52	58.7	13.5	15.6
●	White	●	5.5	551	16.5	3.75	62.5	13.8	16.0
Orange	18	Lt. Green	3.4	344	17.4	3.77	62.8	12.5	14.4
803603	18	315313	4.1	413	17.7	4.04	67.4	12.9	14.9
●	Orange	●	4.5	450	18.0	4.23	70.4	13.1	15.1
●	Orange	●	4.8	482	18.3	4.41	73.4	13.2	15.2
●	Orange	●	5.5	551	18.6	4.66	77.6	13.5	15.6
Orange	20	Lt. Green	3.4	344	18.0	4.07	67.8	12.6	14.5
803603	20	315313	4.1	413	18.6	4.43	73.8	12.8	14.8
●	Tan	●	4.5	450	18.9	4.50	75.0	12.6	14.5
●	Tan	●	4.8	482	19.2	4.68	78.0	12.7	14.7
●	Tan	●	5.5	551	19.5	5.02	83.7	13.2	15.2
Orange	23	Lt. Green	3.4	344	19.8	4.59	76.5	11.7	13.5
803603	23	315313	4.1	413	20.1	5.02	83.7	12.4	14.3
●	Green	●	4.5	450	20.4	5.43	90.5	13.0	15.0
●	Green	●	4.8	482	20.4	5.50	91.6	13.2	15.2
●	Green	●	5.5	551	21.0	5.88	98.0	13.3	15.4
Red	25	Green	4.5	450	21.6	6.43	107.1	13.7	15.8
803602	25	315310	4.8	482	21.9	6.66	110.9	13.8	16.0
●	Blue	●	5.5	551	22.3	7.16	119.2	14.5	16.7
●	Blue	●	6.2	620	22.6	7.59	126.4	14.9	17.2
●	Blue	●	6.9	689	22.9	8.04	134.0	15.4	17.8
Red	33	Green	4.5	450	21.9	6.95	115.8	14.4	16.7
803602	33	315310	4.8	482	22.3	7.18	119.6	14.5	16.7
●	Grey	●	5.5	551	22.9	7.70	128.3	14.7	17.0
●	Grey	●	6.2	620	23.5	8.13	135.5	14.8	17.0
●	Grey	●	6.9	689	24.1	8.61	143.5	14.8	17.1
Red	38	Green	4.5	450	23.2	7.93	132.1	14.8	17.1
803602	38	315310	4.8	482	23.8	8.22	137.0	14.5	16.8
●	Red	●	5.5	551	24.4	8.88	148.0	14.9	17.2
●	Red	●	6.2	620	25.0	9.36	156.0	15.0	17.3
●	Red	●	6.9	689	25.6	9.88	164.7	15.1	17.4
Red	43	Green	-	-	-	-	-	-	-
803602	43	315310	4.8	482	24.7	9.36	156.0	15.4	17.7
●	Dk. Brown	●	5.5	551	25.3	9.88	164.7	15.4	17.8
●	Dk. Brown	●	6.2	620	26.2	10.49	174.9	15.3	17.6
●	Dk. Brown	●	6.9	689	27.1	11.06	184.3	15.0	17.4
Dk. Red	48	Dk. Green	-	-	-	-	-	-	-
803601	48	315312	4.8	482	25.3	10.52	175.3	16.4	19.0
●	Dk. Green	●	5.5	551	25.9	10.99	183.2	16.4	18.9
●	Dk. Green	●	6.2	620	27.1	11.74	195.7	16.0	18.4
●	Dk. Green	●	6.9	689	27.7	12.38	206.3	16.1	18.6
Dk. Red	53	Dk. Green	-	-	-	-	-	-	-
803601	53	315312	4.8	482	26.5	11.52	191.9	16.4	18.9
●	Dk. Blue	●	5.5	551	27.1	12.06	201.0	16.4	18.9
●	Dk. Blue	●	6.2	620	28.0	12.81	213.5	16.3	18.8
●	Dk. Blue	●	6.9	689	28.7	13.54	225.6	16.5	19.0

● = Nozzle plug P/N 315300 installed in the back side of the nozzle housing.

* Complies to ASAE standard. All precipitation rates calculated for 360° operation. All triangular rates are equilateral.

** Low-angle nozzles reduce radius by 15%.

B SERIES



These cost-effective block rotors have shorter-radius, lower-flow nozzles for use in smaller areas.

KEY BENEFITS

- Adjustable, shorter-radius model (50° to 360°)

OPERATING SPECIFICATIONS

- Radius: 5.5 to 15.2 m
- Flow: 0.43 to 2.91 m³/hr; 7.2 to 48.5 l/min
- Pressure range: 2.8 to 4.5 bar; 280 to 450 kPa
- All B Series Golf Rotors are pressure-rated at 10 bar; 1,000 kPa
- Check height up to 2 m in elevation change
- Nozzle range: 2 to 12



G-35-B

Pop-up height: 8 cm
Overall height: 23 cm
Flange diameter: 12 cm
Female inlet: 1¼" (30 mm) Acme

G-35-B - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1	Model	2	Valve Options	3	Nozzle	4	Options*
	G-35 = Full/part-circle 50° to 360°		B = Block rotor with check valve		6 = Installed G35 nozzle* * Available in SSU model only SSU = 6 (includes nozzle rack)		S = SSU* * Standard stocking unit

Example:

G-35-B-6-S = G-35 full/part-circle block rotor, installed 6 nozzle with nozzle rack, standard stocking unit model

G-35-B NOZZLE PERFORMANCE DATA*

Nozzle	Pressure		Radius	Flow		Precip mm/hr	
	bar	kPa	m	m ³ /hr	l/min	■	▲
2 ● Yellow	2.8	280	5.5	0.43	7.2	14.3	16.6
	3.4	340	6.1	0.48	7.9	12.8	14.8
	4.1	410	6.7	0.55	9.1	12.1	14.0
	4.5	450	7.0	0.59	9.8	12.0	13.9
3 ● Yellow	2.8	280	7.0	0.68	11.4	13.9	16.0
	3.4	340	7.6	0.73	12.1	12.5	14.5
	4.1	410	8.2	0.80	13.2	11.7	13.6
	4.5	450	8.5	0.82	13.6	11.2	13.0
4 ● Yellow	2.8	280	7.6	0.89	14.8	15.3	17.6
	3.4	340	8.5	0.93	15.5	12.8	14.8
	4.1	410	9.1	1.00	16.7	12.0	13.8
	4.5	450	9.4	1.04	17.4	11.7	13.5
5 ● Yellow	2.8	280	8.8	1.07	17.8	13.7	15.8
	3.4	340	9.8	1.14	18.9	11.9	13.8
	4.1	410	10.1	1.20	20.1	11.9	13.7
	4.5	450	10.7	1.23	20.4	10.8	12.4
6 ● Yellow	2.8	280	9.8	1.36	22.7	14.3	16.5
	3.4	340	10.7	1.43	23.8	12.6	14.5
	4.1	410	11.3	1.50	25.0	11.8	13.6
	4.5	450	11.9	1.54	25.7	10.9	12.6
8 ● Yellow	2.8	280	11.0	1.77	29.5	14.7	17.0
	3.4	340	11.9	1.82	30.3	12.9	14.8
	4.1	410	12.8	1.89	31.4	11.5	13.3
	4.5	450	13.1	1.93	32.2	11.2	13.0
10 ● Yellow	2.8	280	11.9	2.20	36.7	15.6	18.0
	3.4	340	13.1	2.29	38.2	13.4	15.4
	4.1	410	13.7	2.34	39.0	12.4	14.4
	4.5	450	14.3	2.39	39.7	11.6	13.4
12 ● Yellow	2.8	280	13.4	2.73	45.4	15.2	17.5
	3.4	340	14.3	2.77	46.2	13.5	15.6
	4.1	410	14.6	2.84	47.3	13.3	15.3
	4.5	450	15.2	2.91	48.5	12.5	14.5

* Complies to ASAE standard. All precipitation rates calculated for 360° operation. All triangular rates are equilateral. To calculate precipitation rates for 180° operation, multiply by 2.

G-35-B NOZZLES



G-35-B ROTOR



G-900 SERIES



These rotors are simple to install and perfect for retrofits. Total-Top-Serviceability makes field maintenance quick and easy.

KEY BENEFITS

- G-990 is a dedicated, true full-circle model
- G-995 is an adjustable part-circle model (40° to 360°)
- Higher-flow, longer-radius rotor designed for single-row systems
- Contour back-nozzle capability for special applications

OPERATING SPECIFICATIONS

- G-990
 - Radius: 27.1 to 31.4 m
 - Flow: 12.31 to 18.92 m³/hr; 205.2 to 315.3 l/min
 - Pressure range: 5.5 to 8.3 bar; 550 to 830 kPa
- G-995
 - Radius: 24.7 to 29.6 m
 - Flow: 12.47 to 19.04 m³/hr; 207.8 to 317.2 l/min
 - Pressure range: 5.5 to 8.3 bar; 550 to 830 kPa
- All TTS rotors are pressure-rated at 10 bar; 1,000 kPa
- Check height up to 2 m in elevation change
- Nozzle range: 53 to 73
 - 3 standard trajectory (22.5°) nozzles
 - 3 low-angle trajectory (15°) nozzles

OPTIONS

- C – Check-O-Matic Technology checks up to 8 m in elevation change and readily converts to normally open hydraulic with through-the-top connections
- D – Decoder Valve-in-Head Technology with all “E” specifications below*
- DD – Two-station decoder Valve-in-Head Technology with all “E” specifications below*
- E – Electric Valve-in-Head Technology with adjustable pressure regulation, on-off-auto selector, 210 mA (370 mA inrush) 50 Hz; 190 mA (350 mA inrush) 60 Hz solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two DBRY-6 Splice Connectors for connection to the two-wire path. See **page 11** for critical recommendations on grounding DIH rotors.



G-990C

Pop-up height: 8 cm
Overall height: 34 cm
Flange diameter: 19 cm
Female inlet: 1½" (40 mm) Acme



G-995E

Pop-up height: 8 cm
Overall height: 34 cm
Flange diameter: 19 cm
Female inlet: 1½" (40 mm) Acme

G-990 & G-995 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4 + 5

1 Model	2 Valve Options	3 Nozzle	4 Regulation*	5 Options
G-990 = Full-circle	C = Check-O-Matic Technology* D = Decoder Valve-in-Head Technology DD = Two-station decoder Valve-in-Head Technology E = Electric Valve-in-Head Technology	53 to 73 = Installed G-990 nozzle*	P8 = 80 PSI; 5.5 bar; 550 kPa (nozzle 53) P1 = 100 PSI; 6.9 bar; 690 kPa (nozzles 53 to 73) P2 = 120 PSI; 8.3 bar; 830 kPa (nozzle 73)	S = SSU*
G-995 = Adjustable arc, 40° to 360°	C = Check-O-Matic Technology* D = Decoder Valve-in-Head Technology DD = Two-station decoder Valve-in-Head Technology E = Electric Valve-in-Head Technology *Converts to N.O. hydraulic Valve-in-Head Technology	53 to 73 = Installed G-995 nozzle* * SSU = 53	P8 = 80 PSI; 5.5 bar; 550 kPa (nozzle 53) P1 = 100 PSI; 6.9 bar; 690 kPa (nozzles 53 to 73) P2 = 120 PSI; 8.3 bar; 830 kPa (nozzle 73) * SSU = P8/53	S = SSU* *Standard stocking unit

Example:

G-990-E-53-P8-S = G-990 full-circle electric Valve-in-Head Technology, installed 53 nozzle, 80 PSI; 5.5 bar; 550 kPa regulation, standard stocking unit model

G-990 NOZZLE PERFORMANCE DATA*							
Nozzle	Pressure		Radius**	Flow		Precip mm/hr	
	bar	kPa		m ³ /hr	l/min		
53 ● Dk. Blue	5.5	550	27.1	12.31	205.2	16.7	19.3
	6.2	620	27.4	12.88	214.6	17.1	19.8
	6.9	690	28.0	13.45	224.1	17.1	19.7
	7.6	760	28.3	14.02	233.6	17.4	20.1
	8.3	830	28.7	14.58	243.0	17.8	20.5
63 ● Black	5.5	550	28.0	14.36	23.92	18.3	21.1
	6.2	620	28.7	14.97	249.5	18.2	21.1
	6.9	690	29.3	15.76	265.7	18.4	21.3
	7.6	760	29.6	16.36	272.5	18.7	21.6
	8.3	830	29.9	17.01	283.5	19.1	22.0
73 ● Orange	5.5	550	29.3	16.38	272.9	19.1	22.1
	6.2	620	29.9	17.04	283.9	19.1	22.0
	6.9	690	30.2	17.67	297.5	19.4	22.4
	7.6	760	31.1	18.29	304.7	18.9	21.8
	8.3	830	31.4	18.92	315.3	19.2	22.2

G-995 NOZZLE PERFORMANCE DATA*							
Nozzle	Pressure		Radius**	Flow		Precip mm/hr	
	bar	kPa		m ³ /hr	l/min		
53 ● Dk. Blue	5.5	550	24.7	12.47	207.8	20.5	23.6
	6.2	620	25.6	12.99	216.5	19.8	22.9
	6.9	690	26.2	13.52	225.2	19.7	22.7
	7.6	760	26.5	14.11	235.1	20.1	23.2
	8.3	830	26.8	14.63	243.8	20.3	23.5
63 ● Black	5.5	550	26.2	14.15	235.8	20.6	23.8
	6.2	620	26.8	14.88	247.9	20.7	23.9
	6.9	690	27.4	15.67	261.2	20.8	24.0
	7.6	760	27.7	16.33	272.2	21.2	24.5
	8.3	830	28.0	16.97	282.8	21.6	24.9
73 ● Orange	5.5	550	27.1	16.51	275.2	22.4	25.9
	6.2	620	27.7	17.13	285.4	22.3	25.7
	6.9	690	28.3	17.74	295.6	22.1	25.5
	7.6	760	29.0	18.38	306.2	21.9	25.3
	8.3	830	29.6	19.04	317.2	21.8	25.1

G-900 LOW-ANGLE NOZZLES**



** Low-angle nozzles reduce the radius by 15%.

* Complies to ASAE standard. All precipitation rates calculated for 360° operation. All triangular rates are equilateral. To calculate precipitation rates for 180° operation, multiply by 2.



Contour Back-Nozzle Capabilities

Choose any nozzle from the I-40 and G-70 nozzle racks, or from the short- and mid-range G-900 nozzles.

SWING JOINTS AND ACCESSORIES



HSJ SWING JOINTS

ADVANCED FEATURES



PROVEN PRODUCTS, PROVEN PARTNERS

Over the last four decades, Hunter has become the leading producer of gear-driven rotors, known worldwide for its quality product and excellent customer support. Similarly, LASCO has spent the last 50 years developing a reputation as the industry's leading producer of PVC irrigation fittings and swing joints, providing outstanding customer support in the golf irrigation market. When Hunter sought a partner for its Hunter-branded swing joints, the choice was immediately clear.

We are proud to offer Hunter HSJ Swing Joints by LASCO — a proven team with time-tested solutions for the golf irrigation market. HSJs are available in a multitude of inlet, outlet, size, and length configurations for every course and preference.

UPGRADE YOUR ROTOR WARRANTY

Include Hunter HSJ Swing Joints with your golf rotor order and qualify for a 5-year component exchange warranty. HSJ Swing Joints must be purchased from an authorised Hunter Golf Distributor to qualify.



LASCO is a trademark of LASCO Fittings Inc.

HSJ SWING JOINTS

With swivel ells on both ends, HSJ Swing Joints easily adjust sprinklers to proper height and position in any configuration.

KEY BENEFITS

- Strength, longevity, and contamination resistance
 - Prefabricated PVC design with O-Ring Seals
- Configurations to meet every installation requirement
 - Available in all popular inlet and outlet configurations
 - Choose from 20 cm, 30 cm, or 46 cm lay arm lengths
 - Single top-out or triple top-out designs

Swing Joints

HSJ-0 = Model ¾"
 HSJ-1 = Model 1" (25 mm)
 HSJ-2 = Model 1¼" (30 mm)
 HSJ-3 = Model 1½" (40 mm)



SWING JOINT - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4 + 5

1 Model	2 Inlet Type (from pipe fitting)	3 Outlet Type (to sprinkler inlet)	4 Outlet Style	5 Lay Length
HSJ-0 = ¾" commercial swing joint HSJ-1 = 1" (25 mm) heavy-duty swing joint HSJ-2 = 1¼" (30 mm) heavy-duty swing joint HSJ-3 = 1½" (40 mm) heavy-duty swing joint	3 = Male NPT 4 = Male Acme* 6 = Male BSP** 7 = Spigot, 10 cm long** B = Additional elbow for male BSP inlet, allows vertical mounting. Available for outlet types 0, 5, 8. F = Female InFusion for HDPE saddle**** M = Main Acme H-connection*** P = Main Acme V-connection***	0 = Male Acme 2 = Male NPT 5 = Male BSP (not available in HSJ-0) 6 = Enlarging to 1½" (40 mm) male BSP* 8 = Enlarging to 1½" (40 mm) male Acme* A = Enlarging/reducing to 1¼" (30 mm) male Acme**	2 = Single top-out 4 = Triple top-out 	8 = 20 cm lay arm 12 = 30 cm lay arm 18 = 46 cm lay arm†

Example:

HSJ-3-M-0-2-12 = HSJ 1½" (40 mm) heavy-duty swing joint, 1½" (40 mm) male Acme horizontal connection to mainline tee, 1½" (40 mm) male Acme single top outlet, 30 cm lay arm length.

* Not available in HSJ-0 or HSJ-3. Use "M" inlet for HSJ-3. ** Not available in HSJ-0. *** Connection reduces from 1½" (40 mm) Acme to swing joint size. **** HSJ-3 only. † HSJ-0 only. ‡ Not available in HSJ-0.

ACME ADAPTER FITTINGS

Choose Hunter Acme Adapter Fittings for maximum system design flexibility.



1¼" (30 mm) Models

1¼" (30 mm) male Acme x 1" (25 mm) female NPT	P/N 109325SP
1¼" (30 mm) male Acme x 1" (25 mm) female BSP	P/N 105329SP
1¼" (30 mm) male Acme x 1¼" (30 mm) female NPT	P/N 474800SP
1¼" (30 mm) male Acme x 1¼" (30 mm) female BSP	P/N 474900SP
1¼" (30 mm) male Acme x 1½" (40 mm) female NPT	P/N 104153SP
1¼" (30 mm) male Acme x 1½" (40 mm) female BSP	P/N 107262SP



1½" (40 mm) Models

1½" (40 mm) male Acme x 1" (25 mm) female NPT	P/N 475400SP
1½" (40 mm) male Acme x 1" (25 mm) female BSP	P/N 475500SP
1½" (40 mm) male Acme x 1¼" (30 mm) female NPT	P/N 475200SP
1½" (40 mm) male Acme x 1¼" (30 mm) female BSP	P/N 475300SP
1½" (40 mm) male Acme x 1½" (40 mm) female NPT	P/N 475000SP
1½" (40 mm) male Acme x 1½" (40 mm) female BSP	P/N 475100SP



Acme x Acme Models

1½" (40 mm) male Acme x 1" (25 mm) Acme female	P/N 225300SP
1½" (40 mm) male Acme x 1¼" (30 mm) Acme female	P/N 225400SP
1¼" (30 mm) male Acme x 1" (25 mm) Acme female	P/N 225500SP



B2B Tee Assembly

1½" (40 mm) Acme threaded tee and 40 mm adapter for connecting two swing joints to a single mainline connection in back-to-back installations around greens.

P/N = HSJ-305-015-3 = NPT inlet

P/N = HSJ-305-015-6 = BSP inlet

P/N = HSJ-305-015-M = Acme inlet (shown)

ROTOR ACCESSORIES

Customise golf rotors according to course needs with these useful accessories.

HOSE SWIVEL ADAPTERS

Models

- Hose Swivel Adapter for G-900 Series (fits ¾" and 1" (25 mm) hose) P/N G90HS100
- Hose Swivel Adapter for G-800 Series (fits ¾" and 1" (25 mm) hose) P/N G800HS100



Hose Swivel Adapters

RUBBER COVER KITS

Models

- TTS-800 Series Low-Bounce Rubber Cover Kit P/N 987200SP
- TTS-800 Series Low-Bounce Rubber Cover Kit (Green) P/N 987201SP
- TTS-800 Series No-Bounce Turf Cup Kit P/N 987100SP
- G-990 Series Rubber Cover Kit (date codes 06/11 and prior only) P/N 473800
- G-995 Series Rubber Cover Kit (also G990 date codes 07/11 and after) P/N 473900



Rubber Cover Kit

SPOTSHOT HOSE-END NOZZLES

MODELS

- ¾" hose thread inlet – P/N 160700SP
- 1" hose thread inlet – P/N 160705SP

FEATURES

- Variable nozzle stream choices:
 - Jet-Stream Nozzle: Tightly focused stream for power washing
 - Soak-Stream Nozzle: Medium stream for dust control areas
 - Fan-Stream Nozzle: Broad light stream for turf hot spots

OPERATING SPECIFICATIONS

- Flow: 132 l/min (7.9 m³/hr) at 5.5 bar (550 kPa)*

* Not recommended for residential use with regulated, low-pressure, or low-flow conditions.



SpotShot Hose-End Nozzles

¾" P/N 160700SP
1" (25 mm) P/N 160705SP

Jet-Stream Nozzle



Soak-Stream Nozzle



Fan-Stream Nozzle



QUICK COUPLERS

The sturdy red brass and stainless steel construction of Quick Couplers strengthens any project.

FEATURES

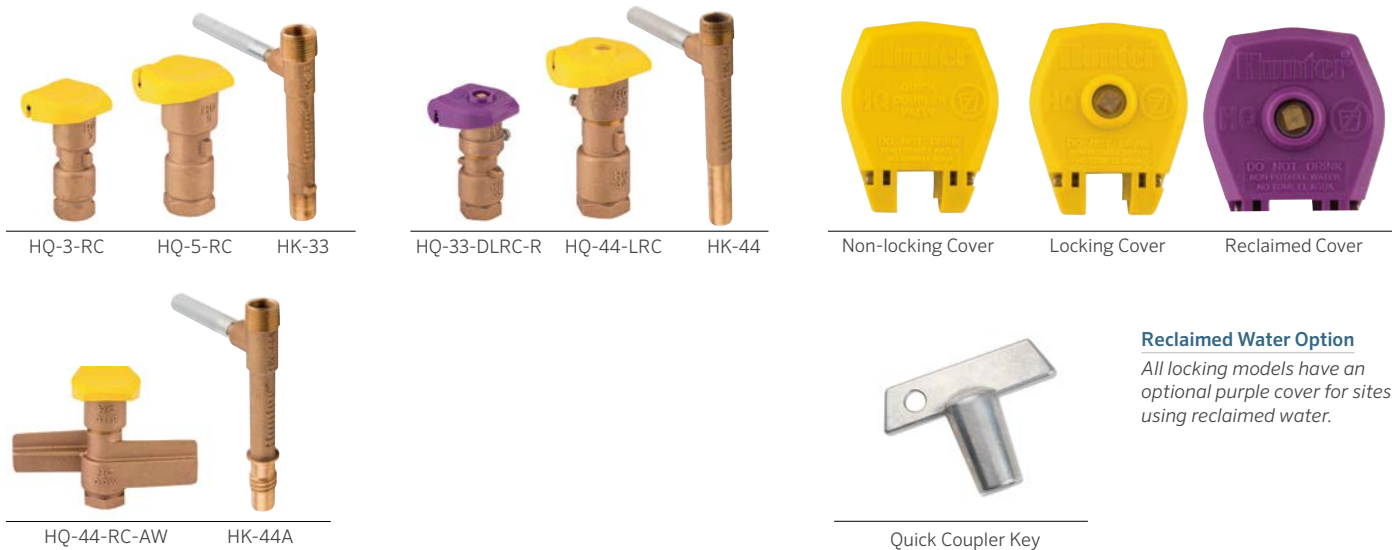
- 100% interchangeable with major brands
- Red brass and stainless steel construction
- Heavy-duty thermoplastic locking and non-locking covers
- Optional winged stabilisation and Acme key connection
- Stainless steel lug on 1" (25 mm) and 1¼" (30 mm) keys
- Spring-loaded covers with stainless steel springs for positive closing and protection of valve's sealing components
- Warranty period: 5 years



Quick Couplers

HQ QUICK COUPLER - SPECIFICATION BUILDER: ORDER 1 + 2 + 3		
1 Model	2 Cover Options	3 Additional Options
HQ-3 = ¾" inlet, 1-piece body, 2 slots HQ-5 = 1" (25 mm) inlet, 1-piece body, 1 slot HQ-33D = ¾" inlet, 2-piece body, 2 slots HQ-44 = 1" (25 mm) inlet, 2-piece body, 1 slot or Acme	RC = Yellow rubber cover LRC = Yellow locking rubber cover (Not available for HQ-3 body)	(blank) = No option AW = Acme key with anti-rotation wings (Only available for HQ-44 body) BSP = BSP threads (Only available for HQ-5 body) R = Purple locking cover (reclaimed water ID; only available for LRC models)

Examples:
HQ-3-RC = HQ-3 valve with rubber cover
HQ-44-LRC = HQ-44 valve with locking rubber cover
HQ-44-LRC-R = HQ-44 valve with locking rubber cover and purple locking cover
HQ-44-LRC-AW-R = HQ valve with locking rubber cover, Acme key socket, anti-rotation wings, and purple locking cover
HQ-5-LRC-BSP = HQ-5 valve with locking rubber cover and BSP threads



Reclaimed Water Option
All locking models have an optional purple cover for sites using reclaimed water.

HK KEYS

Key Model	Compatible Valve	Compatible Swivel
HK-33 = ¾" valve, ¾" key inlet	HQ-3, HQ-33	HS-0
HK-44 = 1" (25 mm) valve, 1" (25 mm) key inlet	HQ-44	HS-1, HS-2, HS-1-B, HS-2-B
HK-44A = 1" (25 mm) valve, Acme key inlet	HQ-44-AW	HS-1, HS-2, HS-1-B, HS-2-B
HK-55 = 1" (25 mm) valve, 1¼" (30 mm) key inlet	HQ-5	HS-1, HS-2, HS-1-B, HS-2-B

HS HOSE SWIVELS

Hose Swivel	Compatible Key
HS-0 = ¾" inlet, ¾" hose outlet	HK-33
HS-1 = 1" (25 mm) inlet, ¾" hose outlet	HK-44, HK-44A, HK-55
HS-2 = 1" (25 mm) inlet, 1" (25 mm) hose outlet	HK-44, HK-44A, HK-55
HS-1-B = 1" (25 mm) inlet, ¾" (20 mm) BSP outlet	HK-44, HK-44A, HK-55
HS-2-B = 1" (25 mm) inlet, 1" (25 mm) BSP outlet	HK-44, HK-44A, HK-55

QUICK COUPLER, KEY, AND HOSE SWIVEL CHARTS

Model	Inlet Threads	Slots	Body	Colour*	Locking	Key	Swivels
HQ-3-RC	¾"	2	1-piece	Yellow	No	HK-33	HS-0
HQ-33-DRC	¾"	2	2-piece	Yellow	No	HK-33	HS-0
HQ-33-DLRC	¾"	2	2-piece	Yellow	Yes	HK-33	HS-0
HQ-44-RC	1" (25 mm) NPT	1	2-piece	Yellow	No	HK-44	HS-1 or HS-2
HQ-44-LRC	1" (25 mm) NPT	1	2-piece	Yellow	Yes	HK-44	HS-1 or HS-2
HQ-44-RC-AW	1" (25 mm) NPT	Acme	2-piece wing**	Yellow	No	HK-44A	HS-1 or HS-2
HQ-44-LRC-AW	1" (25 mm) NPT	Acme	2-piece wing**	Yellow	Yes	HK-44A	HS-1 or HS-2
HQ-5-RC	1" (25 mm) NPT	1	1-piece	Yellow	No	HK-55	HS-1 or HS-2
HQ-5-LRC	1" (25 mm) NPT	1	1-piece	Yellow	Yes	HK-55	HS-1 or HS-2
HQ-5-RC-BSP	1" (25 mm) BSP	1	1-piece	Yellow	Yes	HK-55	HS-1 or HS-2
HQ-5-LRC-BSP	1" (25 mm) BSP	1	1-piece	Yellow	Yes	HK-55	HS-1 or HS-2

Notes:

* All locking cover models are available with purple covers for reclaimed water applications

** Anti-rotation stabilisation wings

SNAPLOK™ COMBO KITS

FEATURES

- Versatile, cross-compatible, and heavy-duty quick coupler
- Highly effective solution for quick coupler stabilisation
- SnapLok design includes:
 - Heavy-duty PVC and brass outlet construction
 - Anti-rotation coupler locking feature
 - Accommodates both rebar and pipe stabilisation
- See the HSJ Swing Joints on **page 48**

SNAPLOK COMBO KITS

Kit Model	Quick Coupler Model	SnapLok Model
HQ-SL-K-1-B = Locking Lid, BSP x 18" (46 cm) SnapLok	HQ-44-LRC	HSJ-1-6S-212
HQ-SL-K-1-RB = Locking Reclaimed Lid, BSP x 18" (46 cm) SnapLok	HQ-44-LRCR	HSJ-1-6S-212

SnapLok is a trademark of LASCO Fittings Inc.



TOOLS



**Arc Adjustment/
Riser Hold-up Tool**
P/N 382800SP
G-85B/G-885



**Valve Insertion/
Removal Tool**
P/N 604000SP
G-800 Series



**Valve Insertion/
Removal Tool**
P/N 280500SP
G-900/G90 Series



**Valve and Snap Ring
Insertion/Removal Pliers**
P/N 475600SP
G-800 Series



Snap Ring Removal Tool
P/N 251000SP
All Golf Models



T-Handle Tool
P/N 319100SP



Hand Pump
P/N 217500SP



Pitot Gauge
P/N 280100SP



Hunter Wrench
P/N 172000SP



**Nozzle Removal/
Installation Tool**
P/N 803700SP
G-85B, G-885 Short- and
Mid-range Nozzles



Riser Pressure Gauge
P/N 991200SP
G-80 (2019), G-85B, and G-885 Risers



PRODUCTS FOR THE GOLF COURSE AND BEYOND

Everything we do at Hunter Industries is rooted in innovation. From small residential installations to fully automated smart cities, our teams continually develop solutions to help professionals deliver water as efficiently and sustainably as possible.

Whether it's water-saving MP Rotator™ Nozzles around a bunker or reliable I-20 Rotors on the surrounds or clubhouse grounds, Hunter's complete offering of commercial products has your course covered.

Automatic Matched Precipitation

MP Rotator Nozzles adjust the flow rate through the nozzle as the radius and arc are changed, resulting in the same matched precipitation rate regardless of the nozzle setting.

Performance You Can Depend On

From residential to commercial applications, high pressure to low pressure, and clean water to dirty water, Hunter valves keep systems running flawlessly day in and day out.

Efficient, Reliable Irrigation

Packed with upgraded features like FloStop™ Technology, check valves, and top-performing nozzles, the I-20 Rotor ensures efficient, reliable irrigation in a range of applications.

As we continue to explore new ways to innovate, you can expect us to deliver even more industry-leading products, services, and tools in the future to help your course thrive.



hunterindustries.com

I-20

The I-20 Rotor is loaded with upgraded features such as FloStop™ Technology, check valves, and efficient nozzles that make it the perfect choice in a range of applications.

KEY BENEFITS

- Patented automatic arc return feature returns the turret back to the original arc pattern if vandalised; adjustable arc from 50° to 360°
- Non-strippable drive mechanism is protected from damage if turned in the opposite direction of travel
- Part- and full-circle in one model is flexible for all landscapes and decreases inventory
- Headed and slotted setscrew allows radius adjustment with a Hunter Wrench or flat-blade screwdriver
- FloStop Technology closes the flow of water from individual sprinklers to change the nozzle or perform repairs
- Flat-top nozzles allow fast, easy insertion
- Drain Check Valve prevents low-head drainage (up to 3 m of elevation)

OPERATING SPECIFICATIONS

- Nozzle choices: 34
- Radius: 4.9 to 14.0 m
- Flow: 0.07 to 3.23 m³/hr; 1.2 to 53.8 l/min
- Recommended pressure range: 1.7 to 4.5 bar; 170 to 450 kPa
- Operating pressure range: 1.4 to 7.0 bar; 140 to 700 kPa
- Precipitation rate: 10 mm/hr approximately
- Nozzle trajectory: standard = 25°, low-angle = 13°
- Nozzle racks: 1.5 to 8.0 blue, 2.0 to 4.5 low-angle grey, 0.50 to 3.0 black, 6.0 to 13.0 green, MPR-25, MPR-30, MPR-35
- Warranty period: 5 years



I-20-04

Overall height: 19 cm
Pop-up height: 10 cm
Exposed diameter: 4.5 cm
Inlet size: ¾"



I-20-06

Overall height: 25 cm
Pop-up height: 15 cm
Exposed diameter: 4.5 cm
Inlet size: ¾"

FACTORY-INSTALLED OPTIONS

- No Drain Check Valve (NCV models)
- Reclaimed water ID
- 1.5–4.0 Blue Nozzles



I-20 Reclaimed

Available as a factory-installed option on all models

USER-INSTALLED OPTIONS

- HSJ-0 prefabricated ¾" PVC Swing Joint

I-20 (PLASTIC) – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
I-20-00 = Shrub I-20-04 = 10 cm pop-up I-20-06 = 15 cm pop-up I-20-12 = 30 cm pop-up	Adjustable arc, plastic, check valve, 8 standard nozzles, and 4 low-angle nozzles	(blank) = No option NCV = Without check valve (only available on 10 cm model) R = Reclaimed water ID	1.5–8.0 Blue Grey low-angle Black short-radius Green high-flow MPR-25-Q, T, H, F MPR-30-Q, T, H, F MPR-35-Q, T, H, F 1.5 to 4.0 = Only nozzles 1.5–4.0 can be factory-installed

I-20 (STAINLESS STEEL) – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
I-20-04-SS = 10 cm pop-up I-20-06-SS = 15 cm pop-up	Adjustable arc, stainless steel, check valve, 8 standard nozzles, and 4 low-angle nozzles	(blank) = No option NCV = Without check valve (only available on 10 cm model) R = Reclaimed water ID	1.5–8.0 Blue Grey low-angle Black short-radius Green high-flow MPR-25-Q, T, H, F MPR-30-Q, T, H, F MPR-35-Q, T, H, F 1.5 to 4.0 = Only nozzles 1.5–4.0 can be factory-installed

Examples:

I-20-04 = 10 cm pop-up, adjustable arc

I-20-12-R-4.0 = 30 cm pop-up, adjustable arc, check valve, with reclaimed water ID, and 4.0 nozzle

I-20-06-SS-R-3.0 = 15 cm pop-up, adjustable arc, stainless steel riser, with reclaimed water ID, and 3.0 nozzle



hunter.info/NozzleSpec120

I-25

The reliable, durable, and versatile I-25 Rotor offers an expansive nozzle selection that makes it the perfect choice for large turf applications.

KEY BENEFITS

- Patented automatic arc return feature returns the turret back to the original arc pattern if vandalised; adjustable arc from 50° to 360°
- Non-strippable drive mechanism is protected from damage if turned in the opposite direction of travel
- Part- and full-circle in one model for flexibility across landscapes and reduced inventory
- Colour-coded nozzles make identification easy
- Drain Check Valve prevents low-head drainage (up to 3 m of elevation)

OPERATING SPECIFICATIONS

- Nozzle choices: 11
- Radius: 11.9 to 21.6 m
- Flow: 0.82 to 7.24 m³/hr; 13.6 to 120.2 l/min
- Recommended pressure range: 2.5 to 7.0 bar; 250 to 700 kPa
- Warranty period: 5 years
- Operating pressure range: 2.5 to 7.0 bar; 250 to 700 kPa
- Precipitation rate: 15 mm/hr approximately
- Nozzle trajectory: standard = 25°

FACTORY-INSTALLED OPTIONS

- Reclaimed water ID
- High-speed rotation

USER-INSTALLED OPTIONS

- HSJ-1 prefabricated 1" (25 mm) PVC Swing Joint



I-25 Reclaimed

Available as a factory-installed option on all models



I-25-04

Overall height: 20 cm
Pop-up height: 10 cm
Exposed diameter: 5 cm
Inlet size: 1" (25 mm) BSP



I-25-06

Overall height: 26 cm
Pop-up height: 15 cm
Exposed diameter: 5 cm
Inlet size: 1" (25 mm) BSP

ROTORS

I-25 (PLASTIC) - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
I-25-04 = 10 cm pop-up I-25-06 = 15 cm pop-up	Adjustable arc, plastic riser, check valve, and 5 nozzles	B = BSP inlet threads R = Reclaimed water ID	4 - 28 = Factory-installed nozzle number

I-25 (STAINLESS STEEL) - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
I-25-04-SS = 10 cm pop-up I-25-06-SS = 15 cm pop-up	Adjustable arc, stainless steel riser, check valve, and 5 nozzles	B = BSP inlet threads R = Reclaimed water ID HS = High-speed HS-R = High-speed and reclaimed water ID	4 - 28 = Factory-installed nozzle number

Examples:

I-25-04-B = 10 cm pop-up, adjustable arc, BSP inlet threads

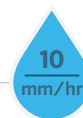
I-25-04-SS-R-B-18 = 10 cm pop-up, adjustable arc, stainless steel riser, reclaimed water ID, and 18 nozzle, BSP inlet threads

I-25-06-SS-B = 15 cm pop-up, adjustable arc, stainless steel riser, BSP inlet threads



hunter.info/NozzleSpec125

MP ROTATOR™ NOZZLES



The MP Rotator Nozzle is the most trusted high-efficiency solution on the market, offering up to 30% water savings over traditional spray nozzles.

KEY BENEFITS

- Lowest precipitation rate in the industry of approximately 10 mm/hr
- Matched precipitation for simplified irrigation design and flexibility
- Double-pop feature protects the nozzle from external debris
- High distribution uniformity for a healthy landscape with maximum water efficiency

ADDITIONAL FEATURES

- Wind-resistant, multi-stream technology prevents misting
- Arc adjustments allowed only when running to deter vandalism
- Removable filter screen keeps nozzle from clogging
- Colour-coded for easy identification

OPERATING SPECIFICATIONS

- Radius reduction up to approximately 25% on all models
- Recommended operating pressure: 2.8 bar; 280 kPa
- Minimum radius setting achieved at 2.1 bar; 210 kPa
- Warranty period: 3 years

OPTIONS

- Pair with Pro-Spray™ PRS40 Sprinkler Body for pressure regulation to 2.8 bar; 280 kPa for nominal radius settings
- Pair with Pro-Spray PRS30 Sprinkler Body for pressure regulation to 2.1 bar; 210 kPa for minimum radius settings

MP1000: 2.5 to 4.5 m radius



MP2000: 4.0 to 6.4 m radius



MP3000: 6.7 to 9.1 m radius



MP3500: 9.4 to 10.7 m radius



MP ROTATOR - SPECIFICATION BUILDER: ORDER 1 + 2	
1 Model	2 Options
MP1000-90 = 2.5 to 4.5 m radius, adjustable from 90° to 210°	(blank) = No option HT = Male threaded version <i>(Not available in 3500 and 1000-210)</i>
MP1000-210 = 2.5 to 4.5 m radius, adjustable from 210° to 270°	
MP1000-360 = 2.5 to 4.5 m radius, 360°	
MP2000-90 = 4.0 to 6.4 m radius, adjustable from 90° to 210°	
MP2000-210 = 4.0 to 6.4 m radius, adjustable from 210° to 270°	
MP2000-360 = 4.0 to 6.4 m radius, 360°	
MP3000-90 = 6.7 to 9.1 m radius, adjustable from 90° to 210°	
MP3000-210 = 6.7 to 9.1 m radius, adjustable from 210° to 270°	
MP3000-360 = 6.7 to 9.1 m radius, 360°	
MP3500-90 = 9.4 to 10.7 m radius, adjustable from 90° to 210°	
MPLCS-515 = Left corner strip, 1.5 m x 4.6 m	
MPRCS-515 = Right corner strip, 1.5 m x 4.6 m	
MPSS-530 = Side strip, 1.5 m x 9.1 m	
MP-CORNER = 2.5 to 4.5 m radius, adjustable from 45° to 105°	



hunter.info/NozzleSpecMP

PRO-SPRAY™ PRS40

To optimise MP Rotator Nozzle performance, the Pro-Spray PRS40 Sprinkler Body is pressure-regulated to 2.8 bar; 280 kPa.

KEY BENEFITS

- Industry's strongest sprinkler body for years of reliable performance
- Pressure-regulated to 2.8 bar; 280 kPa for the MP Rotator Nozzle
- Grey cap for easy field identification
- Co-moulded wiper seal made from chemical- and chlorine-resistant materials
- Innovative seal design prevents cap-to-body leaks, even with a loose cap
- FloGuard Technology option eliminates water waste in the event of a missing nozzle

ADDITIONAL FEATURES

- Directional flush plug design for cleaner installation
- Interchangeable components for easier servicing, retrofits, and upgrades
- Heavy-duty spring for consistent riser retraction
- Check valve option eliminates low-head drainage

OPERATING SPECIFICATIONS

- Check valve available for 10 cm, 15 cm, and 30 cm models (up to 4.3 m of elevation)
- Operational pressure range: 1.0 to 7.0 bar; 100 to 700 kPa
- Warranty period: 5 years

FACTORY-INSTALLED OPTIONS

- Reclaimed water identification
- FloGuard Technology available for pop-up models

USER-INSTALLED OPTIONS

- Reclaimed water ID cap (P/N 458562SP)
- Snap-on reclaimed cover (P/N PROS-RC-CAP-SP)
- Shutoff cap (P/N 213600SP)
- Shutoff nozzle (P/N 916400SP)



PRS40 Reclaimed

PRS40 models include optional factory-installed purple reclaimed caps.



PROS-00-PRS40

Retracted height: 11 cm
Inlet size: ½"



PROS-04-PRS40-CV

Retracted height: 15.5 cm
Pop-up height: 10 cm
Exposed diameter: 5.7 cm
Inlet size: ½"



FloGuard Technology



PROS-06-PRS40-CV

Retracted height: 22.5 cm
Pop-up height: 15 cm
Exposed diameter: 5.7 cm
Inlet size: ½"



PROS-12-PRS40-CV

Retracted height: 41 cm
Pop-up height: 30 cm
Exposed diameter: 5.7 cm
Inlet size: ½"

SPRAY BODIES

PRO-SPRAY PRS40 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3

1 Model	2 Feature Options	3 Specialty Options
PROS-00-PRS40 = 2.8 bar regulated shrub adapter PROS-04-PRS40 = 2.8 bar regulated 10 cm pop-up PROS-06-PRS40 = 2.8 bar regulated 15 cm pop-up PROS-12-PRS40 = 2.8 bar regulated 30 cm pop-up	(blank) = No option CV = Factory-installed drain check valve (pop-up models only)	(blank) = No option R = Factory-installed reclaimed body cap F = FloGuard Technology F-R = FloGuard Technology with reclaimed body cap

PRO-SPRAY PRS40 (SIDE INLET) MODELS

PROS-06-SI-PRS40 = 2.8 bar regulated 15 cm pop-up with side inlet

PROS-12-SI-PRS40 = 2.8 bar regulated 30 cm pop-up with side inlet

Examples:

PROS-06-SI-PRS40 = 15 cm pop-up with side inlet regulated at 2.8 bar; 210 kPa

PROS-06-PRS40-CV = 15 cm pop-up regulated at 2.8 bar; 210 kPa, drain check valve

PROS-12-PRS40-CV-F-R = 30 cm pop-up regulated at 2.8 bar; 210 kPa, drain check valve, and FloGuard Technology with reclaimed body cap

Compatible with:



MP Rotator Nozzles
Page 56

This valve is the perfect choice for high-pressure systems and dirty water conditions.

KEY BENEFITS

- Optional Filter Sentry Mechanism scours the filter screen in dirty water conditions
- External/internal manual bleed allows for quick and easy activation at the valve
- Glass-filled nylon construction provides high-pressure rating and reliability
- Double-beaded diaphragm seal design ensures leak-free performance
- Fabric-reinforced EPDM diaphragm and seat ensure greater performance in all water conditions
- Captive bonnet screws eliminate the possibility of lost parts during disassembly
- Triple-tool bonnet screws are compatible with standard or Phillips screwdrivers as well as a nut driver
- Encapsulated solenoid with captive plunger used on every Hunter valve provides hassle-free service
- Flow control maximises efficiency and prolongs the life of the system

USER-INSTALLED OPTIONS

- Accu Sync™ Pressure Regulator at the valve
- DC-Latching Solenoid for battery-operated controllers (P/N 458200)
- Filter Sentry Mechanism easily added to an installed valve

FACTORY-INSTALLED OPTIONS

- LS: Valve without solenoid
- DC: DC-Latching Solenoid for battery-operated controllers
- FS: Filter Sentry
- FS-R: Reclaimed option with Filter Sentry Mechanism, purple control knob, and purple chlorine-resistant diaphragm

OPERATING SPECIFICATIONS

- Flow:
 - ICV-101G: 0.03 to 9 m³/hr; 0.4 to 150 l/min
 - ICV-151G: 0.03 to 34 m³/hr; 0.4 to 568 l/min
 - ICV-201G: 0.03 to 45 m³/hr; 0.4 to 757 l/min
 - ICV-301: 0.03 to 68 m³/hr; 0.4 to 1,135 l/min
- Recommended pressure range: 1.5 to 15.0 bar; 150 to 1,500 kPa
- Temperature rating: 66°C
- Warranty period: 5 years

SOLENOID SPECIFICATIONS

- 24 VAC solenoid
 - 350 mA inrush, 190 mA holding, 60 Hz
 - 370 mA inrush, 210 mA holding, 50 Hz



ICV-101G

Inlet diameter: 1" (25 mm)
Height: 14 cm
Length: 12 cm
Width: 10 cm



ICV-151G

Inlet diameter: 1½" (40 mm)
Height: 18 cm
Length: 17 cm
Width: 14 cm



ICV-201G

Inlet diameter: 2" (50 mm)
Height: 18 cm
Length: 17 cm
Width: 14 cm



ICV-301

Inlet diameter: 3" (80 mm)
Height: 27 cm
Length: 22 cm
Width: 19 cm



ICV-R

Inlet diameter: 1" (25 mm), 1½" (40 mm), 2" (50 mm), and 3" (80 mm)
Height: 18 cm
Length: 17 cm
Width: 14 cm

**Double-Beaded,
Chlorine-Resistant
Diaphragm**



Filter Sentry Mechanism

ICV 1", 1½", 2" AND 3" – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1	Model	2	Standard Features	3	Feature Options	4	User-Installed Options
	ICV-101-G-B = 1" (25 mm) BSP	Globe valve with flow control			(blank) = No option R = Filter Sentry, purple reclaimed diaphragm and ID tag DC = DC-Latching Solenoid battery-operated controllers LS = Less solenoid	AS-ADJ = Accu Sync adjustable 458200 = DC-Latching Solenoid for battery-operated controllers 607105 = Reclaimed flow control handle (25, 40, 50 mm only) LIT-700 = Reclaimed ID tag	
	ICV-151-G-B = 1½" (40 mm) BSP						
	ICV-201-G-B = 2" (50 mm) BSP						
	ICV-301-B = 3" (80 mm) BSP	Globe / angle valve with flow control					

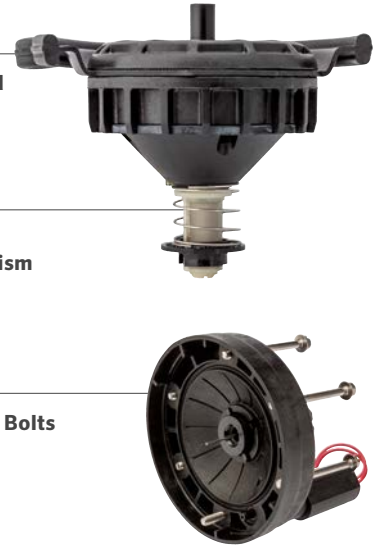
Example:

ICV-201G-B-AS-ADJ = 2" (50 mm) BSP ICV globe valve with flow control, user-installed adjustable Accu Sync Pressure Regulator

Double-Beaded Diaphragm

Optional: Filter Sentry Mechanism

Captive Bonnet Bolts



ICV PRESSURE LOSS (AT OPTIMAL FLOWS) IN BAR

Flow m³/hr	1" (25 mm) Globe	1½" (40 mm) Globe	2" (50 mm) Globe	3" (80 mm) Globe	3" (80 mm) Angle
0.05	0.1				
0.1	0.1				
0.3	0.1				
1.0	0.2				
2.5	0.2				
3.5	0.2				
4.5	0.2	0.1			
7.0	0.4	0.1			
9.0	1.0	0.1	0.1		
11.0		0.2	0.1		
13.5		0.2	0.1		
17.0		0.3	0.1		
20.5		0.4	0.2		
23.0		0.5	0.3		
27.0		0.7	0.4		
30.5		0.9	0.5		
34.0		1.2	0.6	0.2	0.1
40.0			0.9	0.2	0.2
45.5			1.2	0.3	0.2
51.0				0.3	0.3
57.0				0.4	0.4
62.5				0.5	0.5
68.0				0.6	0.6

ICV PRESSURE LOSS (AT OPTIMAL FLOWS) IN kPa

Flow l/min	1" (25 mm) Globe	1½" (40 mm) Globe	2" (50 mm) Globe	3" (80 mm) Globe	3" (80 mm) Angle
1	14				
2	14				
4	14				
20	17				
40	20				
60	20				
75	20	9.6			
115	62	10			
150	139	12	5.0		
190		15	7.0		
225		18	9.3		
280		26	14		
340		37	20		
380		46	26		
450		65	36		
510		84	47		
565		104	57	16	12
660			79	22	17
750			103	29	23
850				38	30
950				47	38
1,050				58	47
1,135				69	56



AC Solenoid
(P/N 606800)
Two red wires



DC-Latching Solenoid
(P/N 458200)
One black (common) wire
and one red (station) wire

ACCU SYNC™ PRESSURE REGULATORS

Gain unparalleled pressure regulation for any Hunter valve.

OPERATING SPECIFICATIONS

- Regulation from 1.4 to 7.0 bar; 140 to 700 kPa
- Static pressure: 10 bar; 1,000 kPa
- Required dynamic pressure differential: 1.0 bar; 100 kPa
- Works with DC-Latching and AC Solenoids
- Works with any Hunter valve
- Warranty period: 2 years

ACCU SYNC VALVE RECOMMENDED FLOW RANGE

Valve	Flow	
	m³/hr	l/min
PGV-100/101	1.2-6.8	19-114
PGV-151	4.5-28	75-454
PGV-201	9.0-34	150-750
ICV-101	1.2-9.0	19-150
ICV-151	4.5-31	75-510
ICV-201	9.0-34	150-560
ICV-301	34-68	565-1135
IBV-101	1.2-9.0	19-150
IBV-151	4.5-31	75-510
IBV-201	9.0-46	150-560
IBV-301	34-68	565-1135

ACCU SYNC APPLICATIONS

- **Adjustable 1.4 to 7.0 bar** For full customisation, the adjustable Accu Sync can regulate pressure from 1.4 to 7.0 bar; 140 to 700 kPa
- **Fixed 2.1 bar** Ideal for spray systems, pressure-regulated to 2.1 bar; 210 kPa
- **Fixed 2.8 bar** Ideal for MP Rotator Nozzles and large, in-line drip systems, pressure-regulated to 2.8 bar; 280 kPa

ACCU SYNC PRESSURE REGULATORS- SPECIFICATION BUILDER: ORDER 1 + 2

1 Model	2 Inlet/Outlet
ACCU SYNC	ADJ = Adjustable Pressure Regulator (1.4 to 7.0 bar) 30 = Fixed Pressure Regulator (2.1 bar) 40 = Fixed Pressure Regulator (2.8 bar)

Example:

ICV-201G-B-AS-ADJ = 2" (50 mm) BSP ICV globe valve with flow control, user-installed adjustable Accu Sync Pressure Regulator

ADJUSTABLE



AS-ADJ

Height with solenoid: 8 cm

ADAPTER



SOLENOID ADAPTER

FIXED



AS-30

Height with solenoid: 8 cm



AS-40

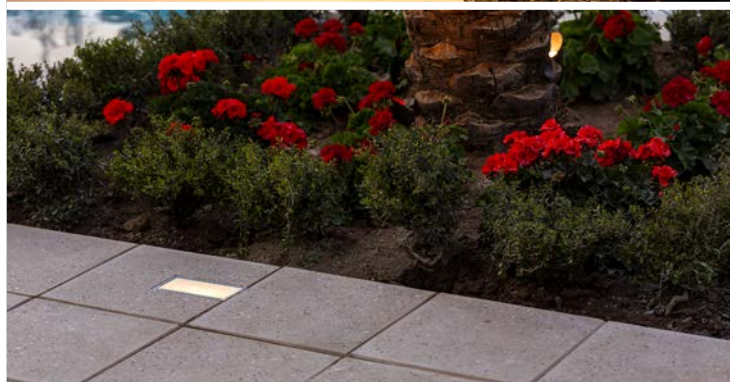
Height with solenoid: 8 cm



Installation

Accu Sync Pressure Regulator shown installed on ICV and PGV Valves.

FXLuminaire®



EXPERIENCE ALL WALKS OF LIGHT

Landscape and Architectural Lighting

FX Luminaire provides industry-leading landscape and architectural lighting solutions with a focus on the advancement of LED technology and digital lighting control with zoning, dimming, and colour adjustment capabilities.

Designer and Standard Series Fixtures

FX Luminaire offers a range of classic and contemporary lighting fixtures in all configurations, from up lights and down lights to path lights and specialty lights.

Our fixture classification system is based on material construction, performance, and price. This helps you quickly identify common fixtures and create lighting packages for any project or budget. All FX Luminaire fixtures are made with top-quality materials and backed by the industry's best support team.



fxl.com

Luxor™ Controller

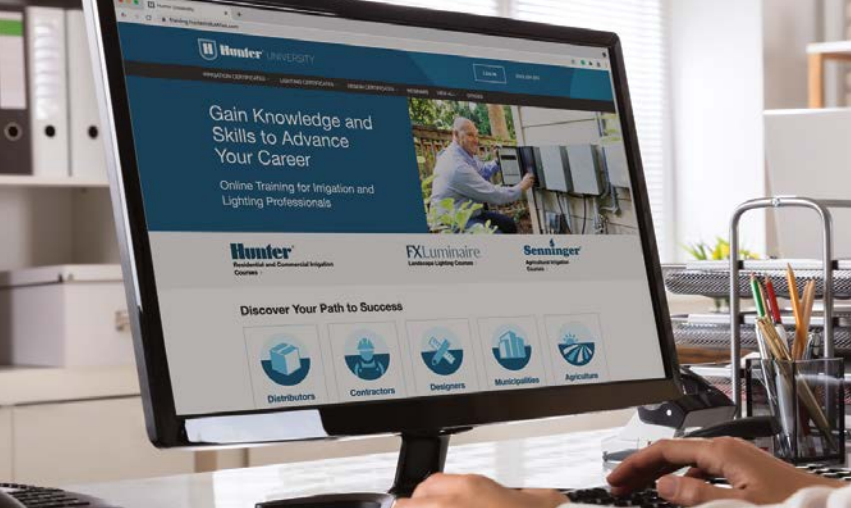
With Luxor Technology, you can liven up your clubhouse, course pathways, or property entryways to complement any occasion with 30,000 vibrant colour possibilities. Design one-of-a-kind holiday displays, create the perfect ambience for weddings, add company colours for corporate events, or simply adjust hues to match vegetation as the seasons change.

With a Luxor Controller, you can also create up to 250 adjustable lighting groups that can be turned on independently and dimmed from 1-100%.

The Luxor App provides ultimate flexibility and convenience when designing with Luxor Lighting Control Systems. With the app, you can adjust fixture intensities and colours, program up to 40 calendar-based themes, and fine-tune your colour palette — from anywhere!

A construction worker wearing a white hard hat, safety glasses, an orange high-visibility vest over a dark long-sleeved shirt, blue jeans, and black gloves is digging with a shovel. The shovel has a wooden handle and a red-painted metal head. The worker is in a crouched position, lifting a pile of dark brown soil. The background shows green foliage and a tree trunk. The text "TECHNICAL INFORMATION" is overlaid in large white letters, with a horizontal white line underneath it.

TECHNICAL INFORMATION



HUNTER UNIVERSITY

hunter.info/hunteruniversity

Advance your career with our comprehensive online training programs for golf irrigation professionals. From fundamental product knowledge to advanced control systems to design techniques, there's a golf professional development program waiting for you! Learn more at training.hunterindustries.com.

Find Your Path to Success

1. Access free golf product training online at training.hunterindustries.com.
2. Choose the golf programs or courses that best fit your needs.

On-Site Expert Workshops

These interactive, instructor-led courses feature a hands-on approach to learning about irrigation. Classes are held at the Hunter Industries campus in San Marcos, California, and select locations worldwide. To learn more, contact training@hunterindustries.com.

Golf Irrigation Training Programs

Learn how to expertly manage your watering needs to ensure a healthy, playable course. Check out the golf-specific training programs below!

Pilot Command Center Software

- Pilot Command Center Introduction
- Pilot Command Center Course Irrigation Profile
- Pilot Command Center Settings
- Pilot Command Center Disable Specific Areas
- Pilot Command Center Adjust Plan for Limited Flow

Pilot Controllers

- PilotFCP Utility Demo
- Pilot Field Controller and Integrated Hub Fundamentals

Maintenance

- Golf Rotor Maintenance
- Golf Controller Maintenance
- Distribution Uniformity Audit

PRECIPITATION RATES

In this section, the “Sprinkler Spacing Method – Any Arc and Any Spacing” equation is used to calculate precipitation rates. The first set of equations with the ■ shows the precipitation rate for the sprinklers when they are laid out in a square pattern. The next set with the ▲ shows the precipitation rate for the sprinklers laid out in an equilateral triangular spacing pattern. This is the “Sprinkler Spacing Method – Equilateral Triangular Spacing” equation.

WHAT IS PRECIPITATION RATE?

If someone said they were caught in a rainstorm that dropped 25 mm of water in an hour, you would have some idea of how hard or heavily the rain came down. A rainstorm that covers an area with 25 mm of water in one hour has a precipitation rate of 25 mm per hour. Similarly, the precipitation rate is the speed at which a sprinkler or an irrigation system applies water.

MATCHED PRECIPITATION RATES

A zone or system in which all the heads have similar precipitation rates is said to have “matched precipitation rates.” Systems that have matched precipitation rates reduce wet and dry spots and minimise run times, which reduces water consumption and lowers costs. Knowing that sprinkler spacing, flow rates, and arcs of coverage affect precipitation rates, a general guideline is: as the spray arc doubles, so should the flow.

 90° Arc = 1 GPM; 0.23 m³/hr; 3.8 l/min

 180° Arc = 2 GPM; 0.45 m³/hr; 7.6 l/min

 360° Arc = 4 GPM; 0.91 m³/hr; 15.1 l/min

The flow rate of half-circle heads must be two times the flow rate of the quarter-circle heads, and the full-circle heads must have two times the flow rate of the half-circle heads. In the illustration, the same amount of water is applied to each quarter circle area and precipitation is therefore matched.

CALCULATING PRECIPITATION RATES		
Depending on the construction of the irrigation system, the precipitation rate may be calculated by either a Sprinkler Spacing or a Total Area method.		
Sprinkler Spacing Method (■) The precipitation rate should be calculated for each individual zone. If all sprinkler heads on the zone have the same spacing, flow rate, and arc of coverage, use one of the following formulas:	Any Arc and Any Spacing (■):	
	P.R. (in/hr) =	Flow Rate (GPM) for any Arc x 34,650 Degrees of Arc x Head Spacing (ft) x Row Spacing (ft)
	P.R. (mm/hr) =	Flow Rate (m³/hr) for any Arc x 360,000 Degrees of Arc x Head Spacing (m) x Row Spacing (m)
	P.R. (mm/hr) =	Flow Rate (l/min) for any Arc x 21,600 Degrees of Arc x Head Spacing (m) x Row Spacing (m)
Sprinkler Spacing Method (▲) The precipitation rate should be calculated for each individual zone. If all sprinkler heads on the zone have the same spacing, flow rate, and arc of coverage, use one of the following formulas:	Equilateral Triangular Spacing (▲):	
	P.R. (in/hr) =	Flow Rate (GPM) for any Arc x 34,650 Degrees of Arc x (Head Spacing)² x 0.866
	P.R. (mm/hr) =	Flow Rate (m³/hr) for any Arc x 360,000 Degrees of Arc x (Head Spacing)² x 0.866
	P.R. (mm/hr) =	Flow Rate (l/min) for any Arc x 21,600 Degrees of Arc x (Head Spacing)² x 0.866
Total Area Method The precipitation rate for a “system” is the average precipitation rate of all sprinklers in an area, regardless of the spacing, flow rate, or arc for each head. The Total Area Method calculates all the flows of all of the heads in any given area.		
	P.R. (in/hr) =	Flow (GPM) x 96.25 Total Area (ft²)
	P.R. (mm/hr) =	Flow (m³/hr) x 1,000 Total Area (m²)
	P.R. (mm/hr) =	Flow (l/min) x 60 Total Area (m²)

PILOT FIELD CONTROLLER ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Supply Voltage

Auto-sensing frequency (50 or 60 Hz)
120 VAC nominal (100 to 132 VAC)¹
230 VAC nominal (200 to 260 VAC)¹
Station output: 24 VAC at 1.0 A

CAPACITIES

Station Capacity

80 stations
Up to 20 stations can run simultaneously²

Station Solenoid Load

Up to four 24 VAC Hunter golf solenoids per station output³

¹ To prevent damage, all Pilot Field Controllers are shipped with the supply voltage set to 230 VAC.

² One 24 VAC Hunter golf solenoid per station.

³ Multiple solenoids connected to a single station will reduce total simultaneous stations.

PILOT INTEGRATED HUB ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Supply Voltage

Auto-sensing frequency (50 or 60 Hz)
Auto-switching 120/230 VAC nominal (100 to 277 VAC at 50/60 Hz)¹

CAPACITIES

Integrated Two-Way Module Capacity

Up to 999 integrated Pilot™ Two-Way Modules per Pilot Integrated Hub
Up to 120 24 VAC Hunter solenoids on at one time²

Integrated Two-Way Module Solenoid Load

Up to two 24 VAC Hunter solenoids per integrated Pilot Two-Way Module³

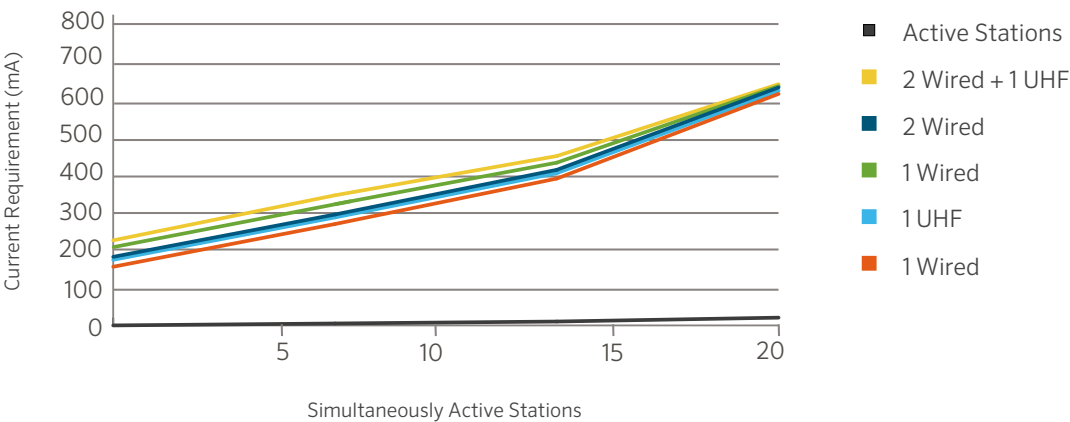
¹ The Pilot Integrated Hub automatically detects supply voltage and frequency.

² Depends on configuration. Pilot Integrated Hub will run up to 30 stations simultaneously per output module.

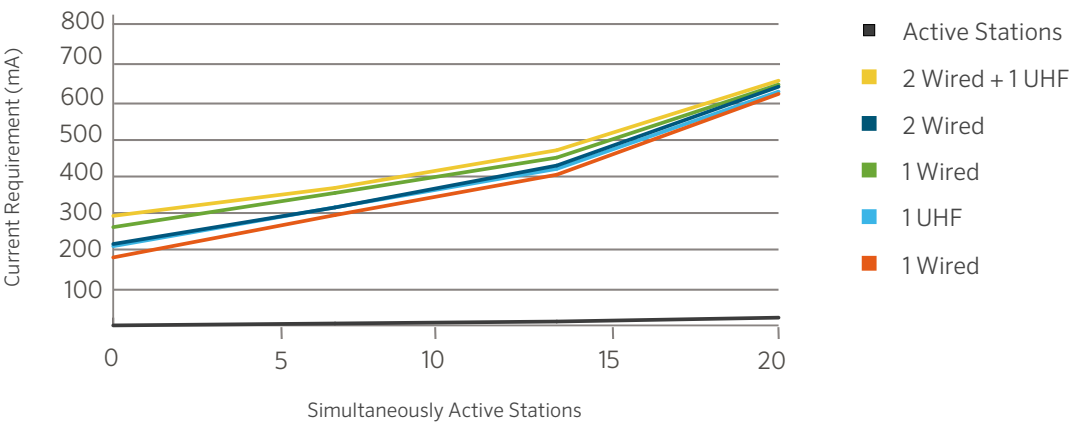
³ Two solenoids per Pilot Two-Way Module does not reduce the maximum simultaneous station count.

PILOT-FC CURRENT REQUIREMENT CHARTS

PILOT-FC FIELD CONTROLLER CURRENT REQUIREMENTS: 230 VAC/50 Hz Supply Voltage, 10 to 40 Stations, Various Loads and Communication Options

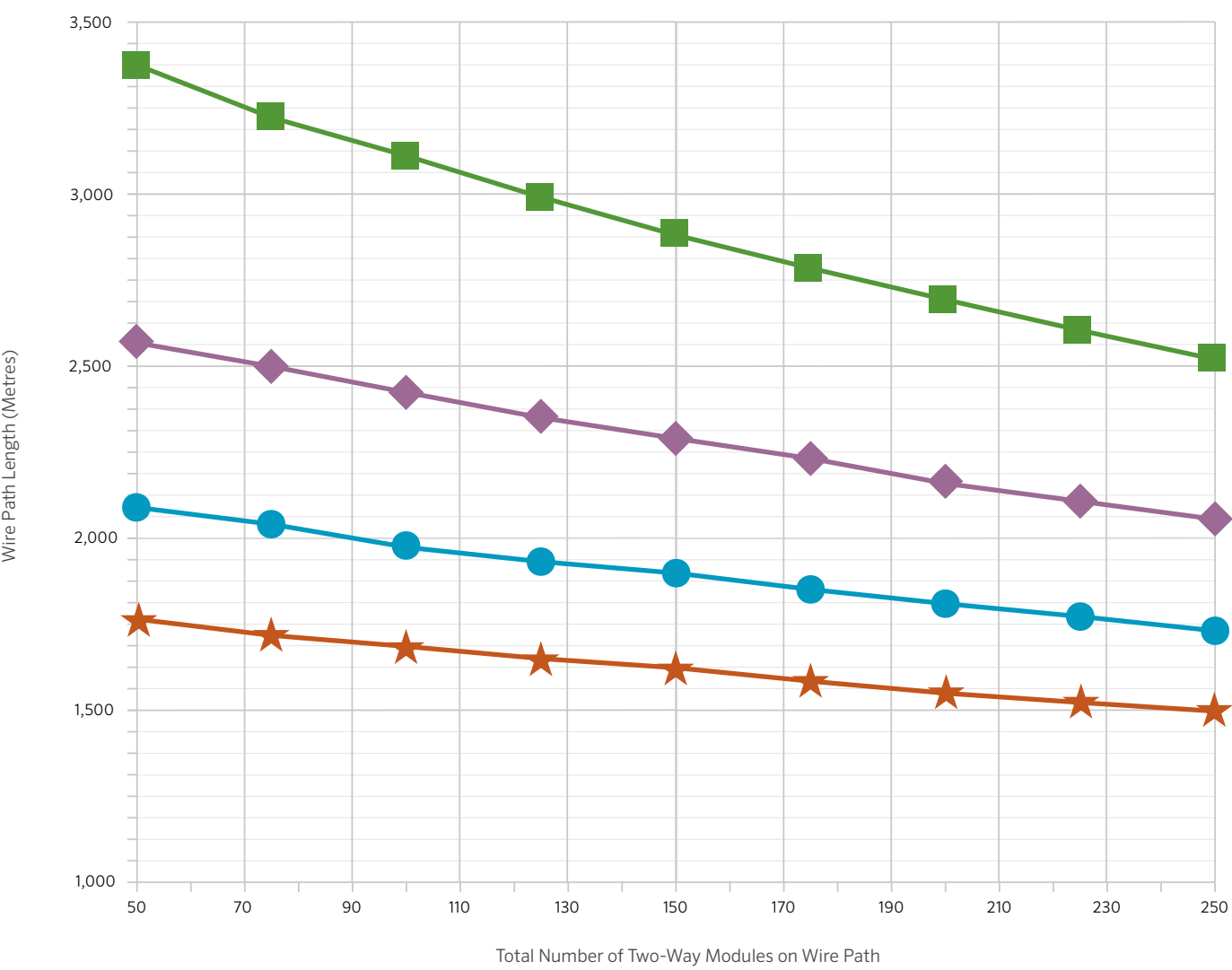


PILOT-FC FIELD CONTROLLER CURRENT REQUIREMENTS: 230 VAC/50 Hz Supply Voltage, 50 to 80 Stations, Various Loads and Communication Options



WIRE USE CHARTS

Active Stations Based on Wire Length and Number of Two-Way Modules Using ID1 (2.2 mm²) Wire



ACTIVE STATIONS	
■	15
◆	20
●	25
★	30

WIRE SIZING

REQUIRED INFORMATION

- 1) Actual one-way length of wire between the controllers and the power source or the controllers and valves
- 2) Allowable voltage loss along the wire circuit
- 3) Accumulative current flowing through the wire section being sized in amperes

RESISTANCE IS CALCULATED USING THIS FORMULA:

$$R = \frac{1,000 \times AVL}{2L \times I}$$

R = Maximum allowable resistance of wire in ohms per 1,000 m
AVL = Allowable voltage loss
L = Wire length (one way)
I = Inrush current

AVL for controller power wire sizing is calculated by subtracting the minimum operating voltage required by the controller from the minimum available voltage at the power source.

AVL for valve wire sizing is calculated by subtracting minimum solenoid operating voltage from controller output voltage. This number will vary depending on the manufacturer and in some cases with line pressure.

VALVE WIRE SIZING EXAMPLE

Given: The distance from the controller to the valve is 600 m. The controller output is 24 V. The valve has a minimum operating voltage of 20 V and an inrush current of 370 mA (0.37 A).

$$R = \frac{1,000 \times 4}{2 (600) \times 0.37}$$

$$R = \frac{4,000}{444}$$

$$R = 9.01 \text{ ohms}/1,000 \text{ m}$$

So, wire resistance cannot exceed 9 ohms per 1,000 m. Now go to table 1 and select the proper wire size. Since 1.5 mm² gauge wire has more resistance than 9 ohms per 1,000 m, choose 2.5 mm² wire.

Table 2 is a quick reference and is set up to provide maximum wire runs given the information at the bottom of the table.

TABLE 1 - RESISTANCE OF COPPER WIRE		TABLE 2 - ALLOWABLE DISTANCES FOR VARIOUS WIRE SIZES*						
Wire Size (mm ²)	Resistance in Ohms per 1,000 m at 20° C	Ground Wire (mm ²)	0.5	1.0	Control Wire (mm ²)			
					1.5	2.5	4.0	6.0
0.5	34.5	0.5	157	209	235	261	279	289
1.0	17.2	1.0	209	314	377	449	503	538
1.5	11.5	1.5	235	377	470	588	684	754
2.5	6.9	2.5	261	449	588	783	965	1103
4.0	4.3	4.0	279	503	684	965	1,257	1,502
6.0	2.9	6.0	289	538	751	1,103	1,502	1,864

Notes:
Maximum one-way distance in metres between controller and solenoid assuming 370 mA inrush current, AVL = 4 volts, 1 valve on at a time.

Table 2 is for a single active solenoid. With two solenoids operating simultaneously on the same wires, the wire distances should be halved.

WIRE DATA

STANDARD ANNEALED COPPER AT 20°C						
American Wire Gauge	Common Metric Equivalent (mm ²)	Diameter (mils)	Diameter (mm)	Cross-Sectional Area (mm ²)	Resistance (Per mft ohms)	Resistance (per km ohms)
1	50	289.3	7.348	42.4	0.924	0.407
2	35	257.6	6.543	33.6	0.156	0.513
3		229.4	5.827	26.7	0.197	0.647
4	25	204.3	5.189	21.1	0.249	0.815
5		181.9	4.62	16.8	0.313	1.028
6	16	162	4.115	13.3	0.395	1.297
7		144.3	3.665	10.6	0.498	1.634
8	10	128.5	3.264	8.36	0.628	2.061
9		114.4	2.906	6.63	0.793	2.6
10	6	101.9	2.588	5.26	0.999	3.277
11		90.7	2.3	4.17	1.26	4.14
12	4	80.8	2.05	3.31	1.59	5.21
13		72	1.83	2.63	2	6.56
14	2.5	64.1	1.63	1.63	2.52	8.28
15		57.1	1.45	1.65	3.18	10.4
16	1.5	50.8	1.29	1.31	4.02	13.2
17		45.3	1.15	1.04	5.05	16.6
18	0.75	40.3	1.02	0.82	6.39	21
19		35.9	0.912	0.65	8.05	26.4
20	0.5	32	0.813	0.52	10.1	33.2

PSR WIRE DATA

MAXIMUM WIRE LENGTH, ONE WAY						
Model	0.75 mm ²	1.5 mm ²	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²
PSR-22	74 m	118 m	188 m	298 m	473 m	751 m
PSR-52	41 m	65 m	104 m	165 m	262 m	416 m
PSR-53	41 m	65 m	104 m	165 m	262 m	416 m

STATEMENT OF WARRANTY

Hunter Residential and Commercial Irrigation Products

Hunter Industries Incorporated ("Hunter") warrants the following products to be free of defects in materials or workmanship under normal use in landscape irrigation applications for the specified period of time outlined below from the original date of manufacture:

ONE YEAR	ROTORS	SRM	MICRO	Micro Sprays, PLD Fittings, Rigid Risers, Air Relief Valves, RZB
TWO YEARS	ROTORS	PGP-ADJ, PGJ, HCV	CONTROLLERS	ACC (Legacy), BTT, Eco-Logic, HC, HCC, HPC, I-Core/DUAL Families (Legacy), NODE, NODE-BT, Pro-C Families, Pro-HC, PSR, ROAM, X2, X-Core, XC Hybrid, WAND, WVL
	SPRAYS	PS Ultra Family, SJ, FlexSG, HSBE Family	SENSORS	HC Flow Meter (wired and wireless)
	NOZZLES	Spray Nozzles, PCN, PCB, AFB, MSBN	MICRO	ACZ, PCZ, RZWS, Point-Source Emitters, Tubing, Multi-Port Emitters, IH Risers, MLD, Eco-Indicator, Multi-Purpose Box, Senninger Regulators, PLD-LOC Fittings
	VALVES	PGV Family	TOOLS	SpotShot
	CENTRAL	A2C-WIFI, A2C-LAN, A2C-CELL-E, WIFIKIT, LANKIT, CELLKIT		
THREE YEARS	CONTROLLERS	ROAM XL, EZ Decoder System, EZ-DT	MP ROTATOR	All
FIVE YEARS	ROTORS	PGP Ultra, I-20, I-25, I-40, I-50, I-80, and I-90 Families	CONTROLLERS	ACC2, ICC2, ICD Decoders, ICD-HP
	SPRAYS	Pro-Spray, Pro-Spray PRS30, and Pro-Spray PRS40 Families	SENSORS	Clik Sensors, Flow-Sync, MWS, Solar Sync, Wireless Flow Sensor
	VALVES	HQ, ICV, IBV	MICRO	ICZ, PLD, HDL, HDL-COP**, Eco-Mat, Eco-Wrap

Hunter Golf and ST System Irrigation Products*

Hunter will unconditionally repair, replace, or repurchase, at its sole discretion, any defective component* assemblies contained within the Golf and ST products listed below by category, returned freight prepaid, from the date of manufacture within a period of:

ONE YEAR	GOLF CONTROLLERS	Pilot Command Center Software, Pilot-FC, Pilot-FI, Pilot Hub
THREE YEARS	GOLF ROTORS	TTS-800 Series, G-800 Series, G-900 Series, B Series
	GOLF TWO-WAY MODULES	Pilot 100, Pilot 200, Pilot 400, Pilot 600
FIVE YEARS	GOLF ROTORS	The golf rotor component warranty is extended to 5 years with a one-for-one purchase of an HSJ Swing Joint from an authorised Hunter Golf distributor.
	SWING JOINTS	HSJ-0, HSJ-1, HSJ-2, HSJ-3
	ST ROTORS	ST-90, STG-900, ST-1200, ST-1600, ST-1700
	ST ACCESSORIES	All models starting with "ST"
	COMPUTER, PRINTERS & ACCESSORIES, MAINTENANCE RADIO & BATTERY	Equipment manufacturer's warranty (no Hunter warranty)

* Warranty covers repair, replacement, or repurchase of individual defective component assemblies contained within the product. Returns of complete finished goods are not allowed under warranty without prior approval from the Hunter Product Manager.

If used for agricultural applications, Hunter limits the warranty for valves, sprays, MP Rotator Nozzles, and rotor products to a period of one (1) year from the original date of manufacture. This agriculture limitation supersedes all other warranties expressed or implied.

** Plus 2 additional years for environmental stress cracking. No warranty against root intrusion on HDL-COP. While the use of copper does not completely remove the chance of root intrusion, it has been shown to assist in its prevention when coupled with proper irrigation scheduling.

*** Eco-Indicator – 15 cm ECO-ID: 2-year warranty; 30 cm ECO-ID-12: 5-year warranty

**** Hunter's cellular module warranty does not apply to the availability or compatibility of cellular data service, in any particular area. Availability of compatible data services should be determined prior to installation.

Statement of Warranty, Continued

If a defect in a Hunter product is discovered during the applicable warranty period, Hunter will repair or replace, at its option, the product or the defective part. This warranty does not extend to repairs, adjustments, or replacement of a Hunter product or part that results from misuse, negligence, alteration, modification, tampering, or improper installation and/or maintenance of the product. This warranty extends only to the original installer of the Hunter product. If a defect arises in a Hunter product during the warranty period, contact your local Hunter Authorized Distributor.

Hunter's warranty applies only to products installed as specified and used as intended for irrigation purposes. Hunter's warranty shall be limited to defects in materials and workmanship during the warranty period, and shall not extend to situations in which the product was subjected to improper design, installation, operation, maintenance, application, abuse, improper electrical current, grounding, service other than by Hunter authorized agents, operating conditions other than that for which it was designed, or in systems using water containing corrosive chemicals, electrolytes, sand, dirt, silt, rust, or agents that otherwise attack and degrade plastics. Hunter's warranty does not cover component failures caused by lightning strikes, electrical power surges, or unconditioned power supplies. If products are repurchased, the price to Distributor for such products in effect at the time of return will apply.

Hunter's obligation to repair, replace, or repurchase its products or product components as set forth above is the sole and exclusive warranty extended by Hunter. There are no other warranties, expressed or implied, including warranties of merchantability and warranties of fitness for a particular purpose. Hunter will not be liable to a distributor or to any other party in strict liability, tort, contract, or any other manner for any damages caused or claimed to be caused as a result of any design of or defect in Hunter's products, or for any special, incidental, or consequential damages of any nature.

Where applicable, Hunter's statement of warranty complies with local directives.

If you have any questions concerning the warranty or its application, please email support@hunterindustries.com.

ASAE CERTIFICATION STATEMENT

Hunter Industries Incorporated certifies that pressure, flow rate, and radius data for these products were determined and listed in accordance with ASAE Standard S398.1, Procedure for Sprinkler Testing and Performance Reporting, and are representative of performance of production sprinklers at the time of publication. Actual product performance may differ from the published specifications due to normal manufacturing variations and sample selection. All other specifications are solely the recommendation of Hunter Industries Incorporated.



Helping our customers succeed is what drives us. While our passion for innovation and engineering is built into everything we do, it is our commitment to exceptional support that we hope will keep you in the Hunter family of customers for years to come.

A white handwritten signature of Gregory R. Hunter on a dark blue background.

Gregory R. Hunter, CEO of Hunter Industries

A white handwritten signature of Denise Mullikin on a dark blue background.

Denise Mullikin, President, Landscape Irrigation and Outdoor Lighting

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