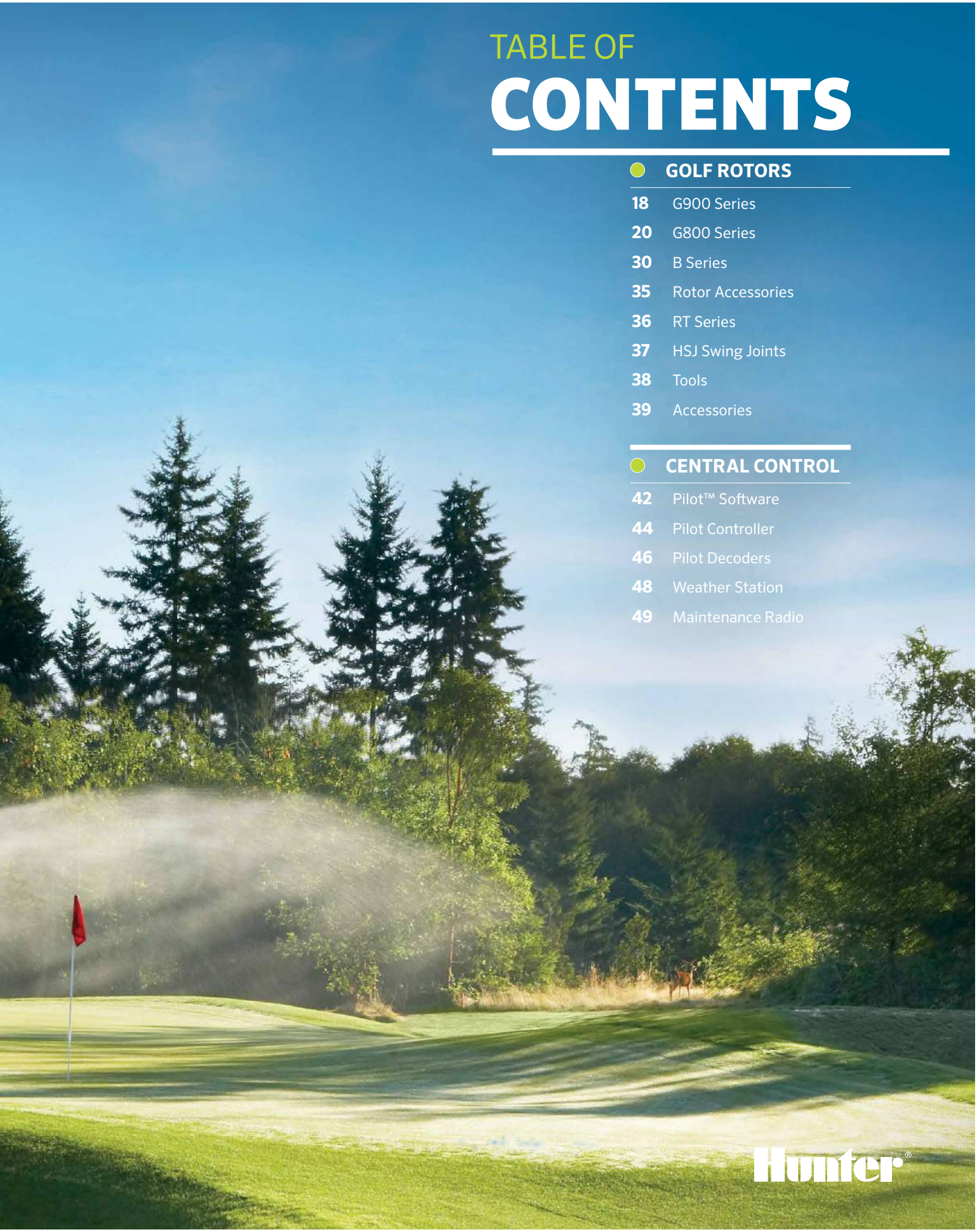
2014-2015 Golf Irrigation Catalog

GOLF COURSE IRRIGATION | *Built on Innovation®*



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GOLF IRRIGATION

WHAT'S NEW

Pilot™ Control System

The versatile Pilot Central Control System is the new standard in advanced control, placing the superintendent in complete command, and crews in the position to work faster and easier.

HSJ Swing Joints

Tough and proven durable, upgrade your Hunter golf rotors to a 5-Year component exchange warranty with the matching purchase of HSJ Swing Joints.

G884 and G885 Rotors

The G884 full-circle and G885 adjustable-arc rotors take drive torque to a whole new level. These powerful rotors are packed with performance, efficiency and every feature you've come to expect in modern-day golf rotors.

CENTRAL CONTROL

The Future is Here

Pilot™ Central Control uses an array of advanced innovations to put the superintendent in complete command.

PILOT™ CENTRAL CONTROL
ADVANCED FEATURES

Pilot-CC Software Central Control

Safely balance sprinkler demand with water and electrical supply for the most efficient irrigation cycles possible. When controlling where and when water is applied becomes more important than efficient use of the pump stations (grow-in, overseeding), Pilot field controller programs are the perfect solution. Create them from the central, edit them at the controller, then update the central with the new settings.

Pilot-DH Decoder Hub

Pilot includes a two-wire decoder option. Pilot-DH decoder hubs have a 999-station capacity and can run up to 120 stations simultaneously.

The hub has a plastic pedestal enclosure with a full-featured control panel. It can be used as in-field control, a stand-alone decoder controller, or linked to a Pilot-CC central control for fully flow-optimized irrigation management.

Communication options include hardwire, UHF radio, and two license-free frequencies. Power options include both 120 and 230 VAC.

Pilot-FC Field Controller

The Pilot field controller manages up to 80 stations in 10 station increments. The full-featured controller has everything you need in a stand-alone field controller. For a fully automated, flow-optimized system, network all your controllers together with Pilot-CC central control software.

Communication options include hardwire, UHF radio, and two license-free frequencies. Power options include both 120 and 230 VAC.

Easy to Program and Maintain

Ease-of-Use: The control panel features a large, multi-language display and an array of function buttons providing quick access to the most commonly used features. The display clearly shows what the controller is doing and has a unique feature which shows the user what time the next scheduled watering will occur.

Ease-of-Maintenance: The system was designed with you in mind. Circuit boards are encapsulated in polyurethane to reduce damage from moisture and pests. All hardware is captured, so you won't lose screws in the grass. The clean, modular design of Pilot units allow them to be serviced with a Phillips screwdriver, which we provide with every controller.


Hunter®
Hunter®
Hunter®

THE NEW HSJ SWING JOINTS ADVANCED FEATURES

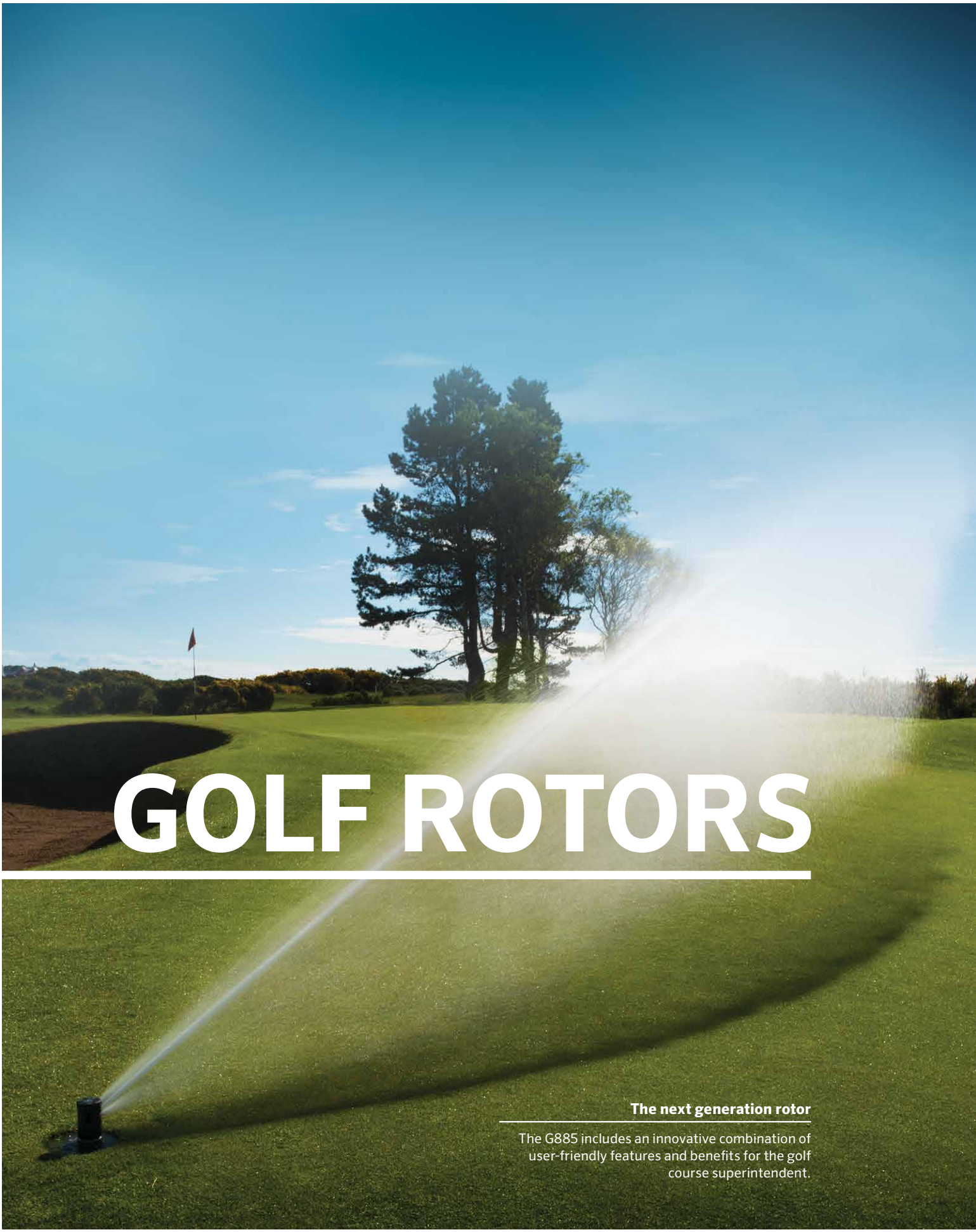
Proven Products, Proven Partners

Over the last three decades, Hunter has grown to become the world-leading producer of gear driven rotors and well known for its quality products and excellent customer support. LASCO, with over 50 years in business, is widely recognized as the world-leading producer of PVC irrigation fittings and swing joints and is well known for its great customer support in the golf irrigation market. Therefore, when Hunter sought out a partner for Hunter branded swing joints, the choice was immediately clear.

Introducing 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 every preference.

Upgrade your rotor warranty

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



GOLF ROTORS

The next generation rotor

The G885 includes an innovative combination of user-friendly features and benefits for the golf course superintendent.

G885 GOLF ROTOR
ADVANCED FEATURES

The G885 Has Power to Spare

Boasting the highest torque output of any golf rotor on the market, the G885's patented gear drive will push through anything that gets in its way. Try it yourself and see. With just one rotation of the turret by hand, you can clearly feel this rotor's formidable durability. With such a powerful core, an array of efficient nozzles, and true full circle and part circle capabilities, the G885 is the golf rotor you can always count on.

Dual Trajectory Flexibility

Choose from the wide assortment of efficient wind-fighting 22.5° standard trajectory nozzles, or the 15° low-angle trajectory nozzles. Either way, there is a perfect match for your unique course conditions and problem-solving needs. Regardless of the version you choose, changing nozzles is fast and easy with Hunter's exclusive QuickChange technology.

Ratcheting Riser with QuickSet-360 Adjustability

Setting up your adjustable arc G885 is fast and simple. The integrated ratcheting mechanism allows a simple twist of the riser to align the right-side reversing point. Then, the adjustment ring is used to quickly set the arc and left-side reversing point. The G885 is also easily convertible to a true non-reversing full circle rotor with our exclusive QuickSet-360 feature.

Easy Arc Adjustment With or Without a Tool

With the G885, the arc is adjustable anytime; uninstalled, installed or while in operation. The convenient adjustment ring can be rotated by hand, or with the easy-to-use arc adjustment tool. This combination tool can also be used as a means to hold the riser in the popped-up position for nozzle changes.

Contour "Back-Nozzle" Capability

Whether you want a little extra green behind your adjustable arc G885 rotors or a more "modeled" look to your fairway's hard edges, Contour "Back-Nozzles" are here to make your vision a reality. They are also great for reducing water use along perimeter housing areas and other unique situations around the course. Choose from six short-range or seven mid-range nozzles to suit your needs.

Primary Nozzle Adapter

Unique irrigation problems exist on nearly every golf course. This is especially true in tight, hard-to-irrigate areas. The G885 primary nozzle adapter can solve many of these problems quickly and easily by allowing you to mix and match nozzles to get the coverage needed, or to plug the primary flow completely.

Also Available, the New G85B Block Rotor

If you're looking for a cost-effective golf rotor with a wide-range of radius and feature capabilities, including a recessed area for a yardage marker, the G85B block rotor is here. It includes all the great features of the G885 rotor at a fraction of the cost.

TTS GOLF ROTORS
ADVANCED FEATURES

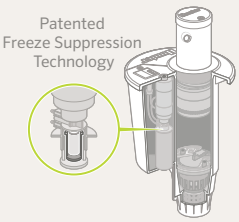
Total-Top-Service (TTS)

Access Everything Through the Top

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

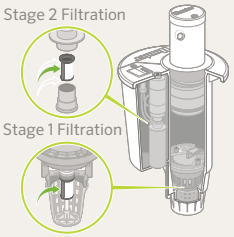
Large and Flexible Yardage Marker Capabilities

Recessed area for placard markers; optional raised marker for popular engraved and paint-filled markers



Pilot Valve Freeze Suppression Unit

Patented FST technology prevents freeze damage—another TTS exclusive



Two-Stage Filtration in Valve Circuitry

Anti-contamination filters in pilot valve and inlet valve protect critical valve-in-head passages

Unitized Inlet Valve Assembly

Easy one-step removal of rock screen, valve seat and valve assembly

Convenient Circular Flange Design

Offset riser and compartment allows quick and easy trimming around the rotor with motorized equipment

Upper Snap Rings with Integrated Wiper Seal

Protects rotor's riser seal from external contamination such as sand top-dressing

Through-the-Top Servicing of On-Off-Auto Selector

Simple and inexpensive to replace, should damage occur

Through-the-Top Solenoid Connections

Keeps wire splices protected in valve-box conditions with easy solenoid servicing

Stainless Steel Seat in Pilot Valve

Durable and corrosion-free, helps prevent slow leaks and weeping in the rotor

Concealed Adjustable Pressure Regulation

Stored within the flange compartment, prevents accidental adjustments

Proudly Manufactured in the USA

Hunter is the only leading irrigation manufacturer making golf rotors in the United States of America

Made in the USA

DIH GOLF ROTORS
ADVANCED FEATURES

Decoder-In-Head (DIH)

Made in the USA

Decoders Are Built Into Rotors

Perfect package to complement decoder control systems. All DIH rotors include two DBRY-6 splice connectors

State-of-the-Art Surge Suppression

Earth grounding is easily added with the Pilot SG surge protector

Individual Decoder and Solenoid Components Within Flange Compartment

Isolated configuration minimizes maintenance costs year after year and into the future

Seamless No-Splice Connection Between Decoder and Solenoid

With no connectors, maintains ongoing electrical continuity and peace of mind

New Two-Station DIH Rotor Option

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

Decoders Are Housed in the DIH Rotor's Unique Flange Compartment

Improves playability and eliminates hundreds of unsightly decoder enclosures course-wide

Program Decoders from the Surface with No Disassembly

Simple, fast, and easy to program before or after installation with the wireless ICD-HP

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

When you can access everything through the top, you never have to touch the turf

Access Decoders Through the Top with No Digging Required

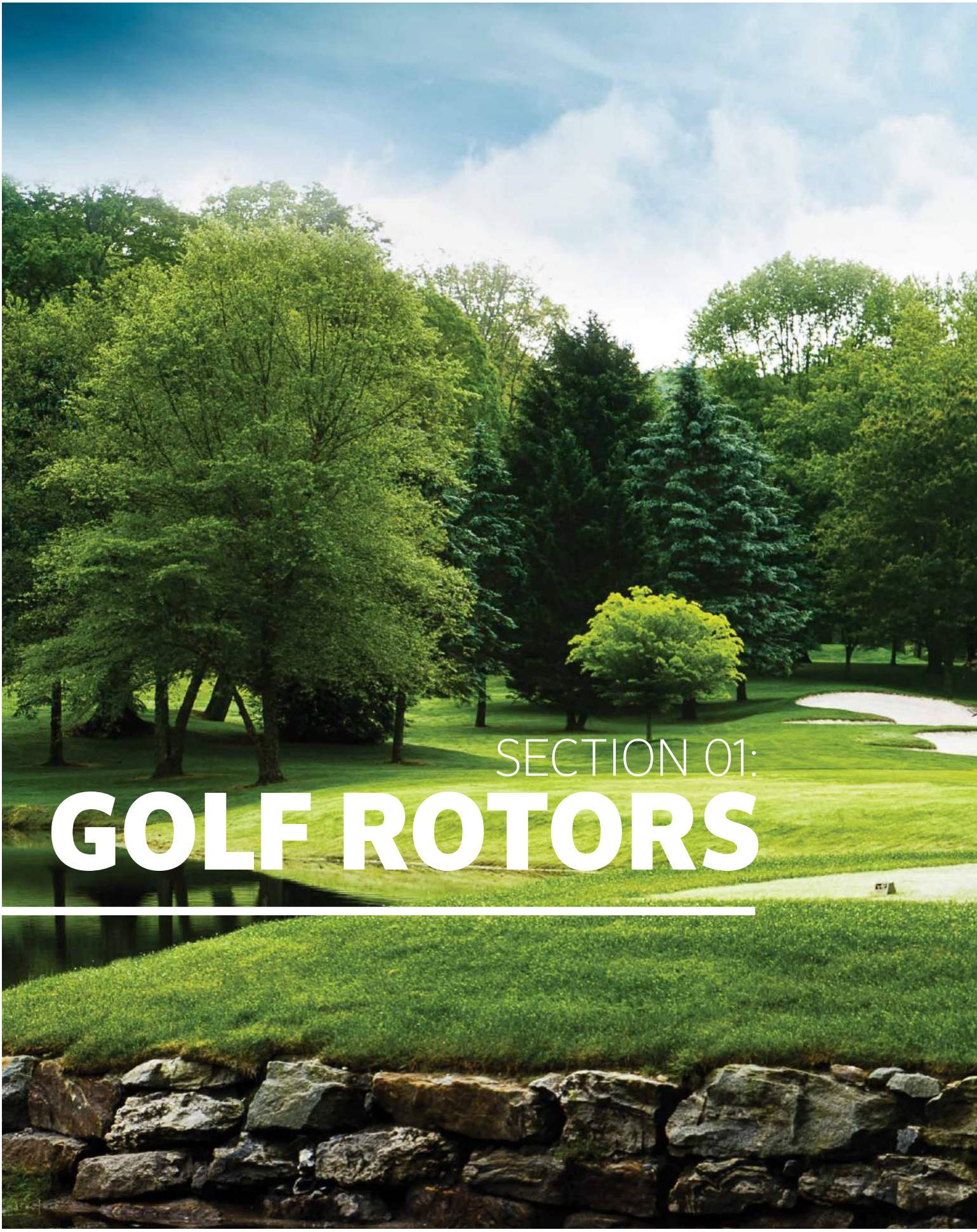
Servicing is a breeze and there's no mess with TTS DIH rotors

Built Strong in the United States of America

Among the top three irrigation manufacturers, Hunter is the only one making golf rotors in the United States of America

Durability, Efficiency, and Reliability Housed in the Industry's First TTS DIH Rotor

Peace of mind from the #1 producer of gear-driven rotors in the world



SECTION 01:

GOLF ROTORS

G900 SERIES

Models: **G990 & G995**
Radius: **66' to 103'**
Flow: **29.5 to 83.8 GPM**

FEATURES

- Models:
  - G990 – Full circle
  - G995 – Adjustable arc (40° - 360°)
- QuickCheck arc mechanism
- Dual trajectory nozzle choices:
  - 8 standard trajectory (22.5°)
  - 8 low angle trajectory (15°)
- Nozzle range: #25 to #73
- Exclusive PressurePort™ nozzle technology
- Contour "Back-Nozzle" capabilities
- Water lubricated gear-drive
- ▸ All TTS advanced features
- ▸ Decoder-In-Head (DIH) capable

OPERATING SPECIFICATIONS

- G990
  - Radius: 73' to 103'
  - Flow: 30.5 to 83.3 GPM
  - Pressure range: 80 to 120 PSI
- G995
  - Radius: 66' to 97'
  - Flow: 29.5 to 83.8 GPM
  - Pressure range: 80 to 120 PSI
- All TTS rotors are pressure rated at 150 PSI

OPTIONS

- C – Check-O-Matic checks up to 25' in elevation change and readily converts to Normally Open Hydraulic with through the top connections
- D – Decoder Valve-In-Head with all "E" specifications below*
- DD – Two-station Decoder Valve-In-Head with all "E" specifications below*
- E – Electric Valve-In-Head with adjustable pressure regulation, on-off-auto selector, 190mA (350mA inrush) solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two IBM DBRY-6 splices for connection to the 2-wire path. See page 45 for critical recommendations on grounding DIH rotors.

▸ = *TTS and DIH Advanced Features detailed on pages 11 and 13*

G990C
Pop-up height: 3"
Overall height: 13¼"
Flange diameter: 7½"
Female Inlet: 1½" ACME

G995E
Pop-up height: 3"
Overall height: 13¼"
Flange diameter: 7½"
Female Inlet: 1½" ACME

G990 & G995 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4 + 5

1 Model	2 Valve Options	3 Nozzle	4 Regulation*	5 Options
G990 = Full Circle	**C** = Check-O-Matic* **D** = Decoder Valve-In-Head **DD** = Two-station Decoder Valve-In-Head **E** = Electric Valve-In-Head	**25 to 73** = Installed G990 Nozzle*	**P8** = 80 PSI (nozzles 25 to 53) **P1** = 100 PSI (nozzles 53 to 73) **P2** = 120 PSI (nozzle 73)	**S** = SSU*
G995 = Adjustable Arc 40° - 360°	**C** = Check-O-Matic* **D** = Decoder Valve-In-Head **DD** = Two-station Decoder Valve-In-Head **E** = Electric Valve-In-Head ** Converts to N.O. Hydraulic Valve-In-Head*	**25 to 73** = Installed G995 Nozzle* ** SSU = #25 or #53*	**P8** = 80 PSI (nozzles 25 to 53) **P1** = 100 PSI (nozzles 53 to 73) **P2** = 120 PSI (nozzle 73) ** SSU = P8/#25 P8/#53*	**S** = SSU* ** Standard*

Example:
G990 - E - 53 - P8 - S = G990 full circle electric valve-in-head, installed #53 nozzle, 80 PSI regulation, standard stocking unit model

G990 NOZZLE PERFORMANCE DATA*

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
25 Lt. Blue	80	73	30.5	0.55	0.64
	90	75	32.4	0.55	0.64
	100	76	34.3	0.57	0.66
	110	78	36.5	0.58	0.67
	120	79	38.4	0.59	0.68
33 Gray	80	77	36.3	0.59	0.68
	90	78	38.4	0.61	0.70
	100	80	40.6	0.61	0.71
	110	81	42.7	0.63	0.72
	120	82	44.9	0.64	0.74
38 Red	80	80	40.6	0.61	0.71
	90	82	42.9	0.61	0.71
	100	83	45.3	0.63	0.73
	110	85	47.7	0.64	0.73
	120	86	50.2	0.65	0.75
43 Dk. Brown	80	83	46.2	0.65	0.75
	90	84	48.6	0.66	0.77
	100	85	50.9	0.68	0.78
	110	86	53.4	0.69	0.80
	120	87	55.9	0.71	0.82
48 Dk. Green	80	86	49.6	0.65	0.75
	90	89	52.5	0.64	0.74
	100	90	54.8	0.65	0.75
	110	91	57.3	0.67	0.77
	120	92	59.5	0.68	0.78
53 Dk. Blue	80	89	54.2	0.66	0.76
	90	90	56.7	0.67	0.78
	100	92	59.2	0.67	0.78
	110	93	61.7	0.69	0.79
	120	94	64.2	0.70	0.81
63 Black	80	92	63.2	0.72	0.83
	90	94	65.9	0.72	0.83
	100	96	69.4	0.72	0.84
	110	97	72.0	0.74	0.85
	120	98	74.9	0.75	0.87
73 Orange	80	96	72.1	0.75	0.87
	90	98	75.0	0.75	0.87
	100	99	77.8	0.76	0.88
	110	102	80.5	0.74	0.86
	120	103	83.3	0.76	0.87

G995 NOZZLE PERFORMANCE DATA*

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
25 Lt. Blue	80	66	29.5	0.65	0.75
	90	67	31.5	0.68	0.78
	100	68	33.2	0.69	0.80
	110	69	35.6	0.72	0.83
	120	69	37.5	0.76	0.88
33 Gray	80	68	36.2	0.75	0.87
	90	69	38.2	0.77	0.89
	100	70	40.4	0.79	0.92
	110	71	42.6	0.81	0.94
	120	72	44.8	0.83	0.96
38 Red	80	72	40.6	0.75	0.87
	90	73	43.0	0.78	0.90
	100	75	45.4	0.78	0.90
	110	76	47.6	0.79	0.92
	120	77	50.0	0.81	0.94
43 Dk. Brown	80	74	46.1	0.81	0.94
	90	74	48.5	0.85	0.98
	100	75	50.7	0.87	1.00
	110	77	53.4	0.87	1.00
	120	78	55.7	0.88	1.02
48 Dk. Green	80	77	50.2	0.81	0.94
	90	79	52.6	0.81	0.94
	100	81	55.1	0.81	0.93
	110	82	57.5	0.82	0.95
	120	83	60.5	0.85	0.98
53 Dk. Blue	80	81	54.9	0.81	0.93
	90	84	57.2	0.78	0.90
	100	86	59.5	0.77	0.89
	110	87	62.1	0.79	0.91
	120	88	64.4	0.80	0.92
63 Black	80	86	62.3	0.81	0.94
	90	88	65.5	0.81	0.94
	100	90	69.0	0.82	0.95
	110	91	71.9	0.84	0.97
	120	92	74.7	0.85	0.98
73 Orange	80	89	72.7	0.88	1.02
	90	91	75.4	0.88	1.01
	100	93	78.1	0.87	1.00
	110	95	80.9	0.86	1.00
	120	97	83.8	0.86	0.99

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

G900 NOZZLES

G990 & G995

G900 LOW-ANGLE NOZZLES

G990 & G995**

** Low-angle nozzles reduce radius by 15%

Contour "Back-Nozzle" Capabilities

Choose any nozzle from the PGP, I-40, and G70 nozzle racks, or from the short and mid-range G900 nozzles.

GOLF ROTORS

G800 SERIES

Model: **G880**
Radius: **67' to 88'**
Flow: **22.5 to 57.9 GPM**

FEATURES

- Model: G880 – Full circle
- Nozzle choices: 6 standard trajectory (25°)
- Nozzle range: #25 to #53
- Exclusive PressurePort™ nozzle technology
- Water lubricated gear-drive
- ▸ All TTS advanced features
- ▸ Decoder-In-Head (DIH) capable

OPERATING SPECIFICATIONS

- Radius: 67' to 88'
- Flow: 22.5 to 57.9 GPM
- Pressure range: 65 to 100 PSI
- All TTS rotors are pressure rated at 150 PSI

OPTIONS

- C – Check-O-Matic checks up to 25' in elevation change and readily converts to Normally Open Hydraulic with through the top connections
- D – Decoder Valve-In-Head with all "E" specifications below*
- DD – Two-station Decoder Valve-In-Head with all "E" specifications below*
- E – Electric Valve-In-Head with adjustable pressure regulation, on-off-auto selector, 190mA (350mA inrush) solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two IBM DBRY-6 splices for connection to the 2-wire path. See page 45 for critical recommendations on grounding DIH rotors.

▸ = *TTS and DIH Advanced Features detailed on pages 11 and 13*

G880C
Pop-up height: 3"
Overall height: 11¾"
Flange diameter: 7¼"
Female Inlet: 1½" ACME

G880E
Pop-up height: 3"
Overall height: 11¾"
Flange diameter: 7¼"
Female Inlet: 1½" ACME

G880 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4 + 5

1 Model	2 Valve Options	3 Nozzle	4 Regulation*	5 Options
G880 = Full Circle	**C** = Check-O-Matic*	**25 to 53** = Installed G880 Nozzle*	**P6** = 65 PSI (nozzle 25 only)	**S** = SSU*
	D = Decoder Valve-In-Head		**P8** = 80 PSI (nozzles 25 to 53)	
	DD = Two-station Decoder Valve-In-Head			
	E = Electric Valve-In-Head			
	** Converts to N.O. Hydraulic Valve-In-Head*	** SSU = #25 or #48*	** SSU = P6/#25 P8/#25 P8/#48*	** Standard Stocking Unit*

Example:
G880 - E - 48 - P8 - S = G880 full circle electric valve-in-head, installed #48 nozzle, 80 PSI regulation, standard stocking unit model

G880 NOZZLE PERFORMANCE DATA*

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
25 Lt. Blue	65	67	22.5	0.48	0.56
	70	69	23.9	0.48	0.56
	80	71	26.0	0.50	0.57
	90	72	27.9	0.52	0.60
	100	73	29.8	0.54	0.62
33 Gray	65	73	31.0	0.56	0.65
	70	74	32.2	0.57	0.65
	80	76	34.7	0.58	0.67
	90	77	37.0	0.60	0.69
	100	78	38.8	0.61	0.71
38 Red	65	76	35.1	0.58	0.68
	70	77	36.3	0.59	0.68
	80	79	38.5	0.59	0.69
	90	80	40.5	0.61	0.70
	100	81	42.9	0.63	0.73
43 Dk. Brown	65	78	39.2	0.62	0.72
	70	79	40.8	0.63	0.73
	80	82	43.7	0.63	0.72
	90	83	46.5	0.65	0.75
	100	84	48.8	0.67	0.77
48 Dk. Green	65	82	43.8	0.63	0.72
	70	83	46.3	0.65	0.75
	80	85	49.0	0.65	0.75
	90	86	51.9	0.68	0.78
	100	87	54.4	0.69	0.80
53 Dk. Blue	65	83	46.9	0.66	0.76
	70	84	49.1	0.67	0.77
	80	87	52.6	0.67	0.77
	90	88	54.8	0.68	0.79
	100	88	57.9	0.72	0.83

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

G880 NOZZLES

TTS EQUALS CONVENIENCE AND VERSATILITY

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

GOLF ROTORS

G800 SERIES

Model: **G884**
Radius: **49' to 93'**
Flow: **14.4 to 58.3 GPM**

FEATURES

- Model: G884 – Full circle
- Dual trajectory color-coded nozzles:
  - 10 standard trajectory (22.5°)
  - 9 low-angle trajectory (15°)
- Nozzle range: #15 to #53
- Exclusive PressurePort™ nozzle technology
- Stainless steel riser
- Water lubricated gear-drive
- ▸ All TTS advanced features
- ▸ Decoder-In-Head (DIH) capable

OPERATING SPECIFICATIONS

- Radius: 49' to 93'
- Flow: 14.4 to 58.3 GPM
- Pressure range: 50 to 100 PSI
- All TTS rotors are pressure rated at 150 PSI

OPTIONS

- C – Check-O-Matic checks up to 25' in elevation change and readily converts to Normally Open Hydraulic with through the top connections
- D – Decoder Valve-In-Head with all "E" specifications below*
- DD – Two-station Decoder Valve-In-Head with all "E" specifications below*
- E – Electric Valve-In-Head with adjustable pressure regulation, on-off-auto selector, 190mA (350mA inrush) solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two IBM DBRY-6 splices for connection to the 2-wire path. See page 45 for critical recommendations on grounding DIH rotors.

▸ = *TTS and DIH Advanced Features detailed on pages 11 and 13*

G884C
Pop-up height: 3¾"
Overall height: 11¾"
Flange diameter: 7¼"
Female Inlet: 1½" ACME

G884E
Pop-up height: 3¾"
Overall height: 11¾"
Flange diameter: 7¼"
Female Inlet: 1½" ACME

G884 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4 + 5

1 Model	2 Valve Options	3 Nozzle	4 Regulation*	5 Options
G884 = Full Circle (convertible to forward-facing adjustable arc rotor)	**C** = Check-O-Matic* **D** = Decoder Valve-In-Head **DD** = Two-station Decoder Valve-In-Head **E** = Electric Valve-In-Head ** Converts to N.O. Hydraulic Valve-In-Head*	**15 to 53** = Installed G884 Nozzle* ** SSU = #18, #23, #25 or #48*	**P5** = 50 PSI (nozzles 15 to 18) **P6** = 65 PSI (nozzles 18 to 25) **P8** = 80 PSI (nozzles 25 to 53) ** SSU = P5/#18, P6/#23 P8/#25, P8/#48*	**S** = SSU* ** Standard Stocking Unit*

Example:
G884 - E - 48 - P8 - S = G884 full circle electric valve-in-head, installed #48 nozzle, 80 PSI regulation, standard stocking unit model

G884 NOZZLE PERFORMANCE DATA*

Nozzle Set			Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
● Tan		● Gray	50	49	14.4	0.58	0.67
			60	51	16.1	0.59	0.69
	15		65	52	16.8	0.60	0.69
			70	53	17.2	0.59	0.68
803611	White	315317	80	55	18.2	0.58	0.67
● Tan		● Gray	50	55	17.5	0.56	0.64
			60	56	18.8	0.58	0.67
	18		65	57	19.6	0.58	0.67
			70	59	20.5	0.57	0.65
803611	Orange	315317	80	61	21.8	0.56	0.65
● Tan		● Gray	50	57	17.2	0.51	0.59
			60	61	18.8	0.49	0.56
	20		65	62	19.7	0.49	0.57
			70	63	20.6	0.50	0.58
803611	Brown	315317	80	64	22.1	0.52	0.60
● Tan		● Lt. Blue	50	63	19.8	0.48	0.55
			60	65	22.0	0.50	0.58
	23		65	66	22.9	0.50	0.58
			70	67	23.8	0.51	0.59
803611	Green	315311	80	67	25.6	0.55	0.63
● Tan		● Lt. Blue	65	71	28.6	0.55	0.63
			70	73	29.7	0.54	0.62
	25		80	74	31.7	0.56	0.64
			90	75	33.7	0.58	0.67
803611	Blue	315311	100	75	35.8	0.61	0.71
● Tan		● Lt. Blue	65	73	30.9	0.56	0.64
			70	75	32.2	0.55	0.64
	33		80	76	34.4	0.57	0.66
			90	77	36.3	0.59	0.68
803611	Gray	315311	100	79	38.1	0.59	0.68
● Tan		● Lt. Blue	65	75	35.0	0.60	0.69
			70	76	36.5	0.61	0.70
	38		80	78	39.0	0.62	0.71
			90	79	41.3	0.64	0.74
803611	Red	315311	100	82	43.4	0.62	0.72
● Tan		● Blue	-	-	-	-	-
			-	-	-	-	-
	43		80	83	43.4	0.61	0.70
			90	85	46.3	0.62	0.71
803611	Dk. Brown	315300	100	87	48.6	0.62	0.71
● Dk. Brown		● Dk. Blue	-	-	-	-	-
			-	-	-	-	-
	48		80	85	47.9	0.64	0.74
			90	89	50.5	0.61	0.71
803610	Dk. Green	833500	100	91	53.2	0.62	0.71
● Dk. Brown		● Dk. Blue	-	-	-	-	-
			-	-	-	-	-
	53		80	89	52.2	0.63	0.73
			90	91	55.4	0.64	0.74
803610	Dk. Blue	833500	100	93	58.3	0.65	0.75

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

G884 STANDARD NOZZLES

G884 LOW-ANGLE NOZZLES**

** Low-angle nozzles reduce radius by 15%

G885 TTS Rotor

Spacious TTS Flange Compartment

All TTS rotors include ample room for solenoid splice connections and a decoder module when needed.

GOLF ROTORS

G800 SERIES

Model: **G885**
Radius: **43' to 91'**
Flow: **8.2 to 57.5 GPM**

FEATURES

- Model: G885 – True full circle/adjustable part circle (60° to 360°)
- QuickCheck arc mechanism
- QuickSet-360 arc mechanism
- Dual trajectory color-coded nozzles:
  - 12 standard trajectory (22.5°)
  - 9 low-angle trajectory (15°)
- Nozzle range: #10 to #53
- Exclusive PressurePort™ nozzle technology
- Contour "Back-Nozzle" capabilities
- Ratcheting stainless steel riser
- Water lubricated gear-drive
- ▸ All TTS advanced features
- ▸ Decoder-In-Head (DIH) capable

G885C
Pop-up height: 3¾"
Overall height: 11¾"
Flange diameter: 7¼"
Female Inlet: 1½" ACME

OPERATING SPECIFICATIONS

- Radius: 43' to 91'
- Flow: 8.2 to 57.5 GPM
- Pressure range: 50 to 100 PSI
- All TTS rotors are pressure rated at 150 PSI

G885E
Pop-up height: 3¾"
Overall height: 11¾"
Flange diameter: 7¼"
Female Inlet: 1½" ACME

OPTIONS

- C – Check-O-Matic checks up to 25' in elevation change and readily converts to Normally Open Hydraulic with through the top connections
- D – Decoder Valve-In-Head with all "E" specifications below*
- DD – Two-station Decoder Valve-In-Head with all "E" specifications below*
- E – Electric Valve-In-Head with adjustable pressure regulation, on-off-auto selector, 190mA (350mA inrush) solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two IBM DBRY-6 splices for connection to the 2-wire path.
See page 45 for critical recommendations on grounding DIH rotors.

▸ = *TTS and DIH Advanced Features detailed on pages 11 and 13*

G885 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4 + 5

1 Model	2 Valve Options	3 Nozzle	4 Regulation*	5 Options
G885 = Full/Part Circle 60°-360° Arc Range	**C** = Check-O-Matic*	**10 to 53** = Installed G885 Nozzle*	**P5** = 50 PSI (nozzles 10 to 18)	**S** = SSU*
	D = Decoder Valve-In-Head		**P6** = 65 PSI (nozzles 18 to 25)	
	DD = Two-station Decoder Valve-In-Head		**P8** = 80 PSI (nozzles 25 to 53)	
	E = Electric Valve-In-Head			
	** Converts to N.O. Hydraulic Valve-In-Head*	** SSU = #18, #23, #25 or #48*	** SSU = P5/#18, P6/#23 P8/#25, P8/#48*	** Standard Stocking Unit*

Example:
G885 - E - 48 - P8 - S = G885 full/part circle electric valve-in-head, installed #48 nozzle, 80 PSI regulation, standard stocking unit model

G885 NOZZLE PERFORMANCE DATA*

Nozzle Set			Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
Orange 803603 ●	10 Lt. Green	Dk. Green 315312 ●	50	43	8.2	0.43	0.49
			60	44	9.8	0.49	0.56
			65	45	10.1	0.48	0.55
			-	-	-	-	-
			-	-	-	-	-
Orange 803603 ●	13 Lt. Blue	White 315314 ●	50	48	11.7	0.49	0.56
			60	50	12.8	0.49	0.57
			65	51	13.4	0.50	0.57
			-	-	-	-	-
			-	-	-	-	-
Orange 803603 ●	15 White	White 315314 ●	50	52	13.3	0.47	0.55
			60	53	14.7	0.50	0.58
			65	54	15.2	0.50	0.58
			70	55	15.7	0.50	0.58
			80	57	17.0	0.50	0.58
Orange 803603 ●	18 Orange	Lt. Green 315313 ●	50	55	16.7	0.53	0.61
			60	57	17.8	0.53	0.61
			65	58	18.2	0.52	0.60
			70	58	19.3	0.55	0.64
			80	59	20.6	0.57	0.66
Orange 803603 ●	20 Tan	Lt. Green 315313 ●	50	58	18.4	0.53	0.61
			60	60	19.6	0.52	0.61
			65	61	20.5	0.53	0.61
			70	61	21.5	0.56	0.64
			80	62	22.6	0.57	0.65
Orange 803603 ●	23 Green	Lt. Green 315313 ●	50	61	21.0	0.54	0.63
			60	63	22.8	0.55	0.64
			65	65	23.9	0.54	0.63
			70	66	25.8	0.57	0.66
			80	67	27.9	0.60	0.69
Red 803602 ●	25 Blue	Green 315310 ●	65	69	29.4	0.59	0.69
			70	70	30.5	0.60	0.69
			80	71	32.4	0.62	0.72
			90	72	34.2	0.63	0.73
			100	73	36.3	0.66	0.76
Red 803602 ●	33 Grey	Green 315310 ●	65	69	31.0	0.63	0.72
			70	71	31.8	0.61	0.70
			80	73	34.5	0.62	0.72
			90	74	36.7	0.65	0.74
			100	76	38.5	0.64	0.74
Red 803602 ●	38 Red	Green 315310 ●	65	73	35.1	0.63	0.73
			70	75	36.7	0.63	0.72
			80	79	39.4	0.61	0.70
			90	79	41.2	0.64	0.73
			100	80	42.9	0.65	0.75
Red 803602 ●	43 Dk. Brown	Green 315310 ●	-	-	-	-	-
			-	-	-	-	-
			80	80	43.5	0.65	0.76
			90	81	46.4	0.68	0.79
			100	83	48.7	0.68	0.79
Dk. Red 803601 ●	48 Dk. Green	Dk. Green 315312 ●	-	-	-	-	-
			-	-	-	-	-
			80	85	49.3	0.66	0.76
			90	86	52.2	0.68	0.78
			100	88	54.7	0.68	0.79
Dk. Red 803601 ●	53 Dk. Blue	Dk. Green 315312 ●	-	-	-	-	-
			-	-	-	-	-
			80	89	52.8	0.64	0.74
			90	90	55.2	0.66	0.76
			100	91	57.5	0.67	0.77

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

G885 STANDARD NOZZLES

G885 LOW-ANGLE NOZZLES**

** Low-angle nozzles reduce radius by 15%

Contour "Back-Nozzle" Capabilities

Whether you want a little extra green behind your adjustable-arc G885 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	Color	Profile	65 PSI Radius	65 PSI GPM	80 PSI Radius	80 PSI GPM
803604	Peach		25	3.4	27	3.9
803603	Orange		28	3.8	29	4.2
803602	Red		31	4.2	33	4.5
803601	Dk. Red		34	4.6	36	4.9
315314	White		37	2.8	38	2.9
315313	Lt. Green		42	4.3	44	4.7
315310	Green		46	5.2	48	5.7
315312	Dk. Green		49	7.9	51	8.8

G885 CONTOUR BACK-NOZZLES

QuickSet-360 with Ratcheting Riser

Setting up your adjustable arc G885 is fast and simple. The integrated ratcheting mechanism allows a simple twist of the riser to align the right-side reversing point. The G885 is also easily convertible to a true non-reversing full circle rotor with our exclusive QuickSet-360 feature.

G800 SERIES

Model: **G835**
Radius: **18' to 50'**
Flow: **1.9 to 12.8 GPM**

FEATURES

- Model:
  - G835: Full/Part circle (50° to 360°)
- QuickCheck arc mechanism
- QuickSet-360 arc mechanism
- Nozzle choices: 8 multi-trajectory (15° to 25°)
- Nozzle range: #2 to #12
- Water lubricated gear-drive
- ▸ All TTS advanced features
- ▸ Decoder-In-Head (DIH) capable

OPERATING SPECIFICATIONS

- Radius: 18' to 50'
- Flow: 1.9 to 12.8 GPM
- Pressure range: 40 to 65 PSI
- All TTS rotors are pressure rated at 150 PSI

OPTIONS

- C – Check-O-Matic checks up to 25' in elevation change and readily converts to Normally Open Hydraulic with through the top connections
- D – Decoder Valve-In-Head with all "E" specifications below*
- DD – Two-station Decoder Valve-In-Head with all "E" specifications below*
- E – Electric Valve-In-Head with adjustable pressure regulation, on-off-auto selector, 190mA (350mA inrush) solenoid with captive plunger and internal downstream bleed

* All DIH rotors include two IBM DBRY-6 splices for connection to the 2-wire path. See page 45 for critical recommendations on grounding DIH rotors.

▸ = *TTS and DIH Advanced Features detailed on pages 11 and 13*

G835C
Pop-up height: 3"
Overall height: 11¾"
Flange diameter: 7¾"
Female Inlet: 1½" ACME

G835E
Pop-up height: 3"
Overall height: 11¾"
Flange diameter: 7¼"
Female Inlet: 1½" ACME

G835 – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4 + 5

1 Model	2 Valve Options	3 Nozzle	4 Regulation*	5 Options
G835 = Full/Part Circle 50° - 360°	**C** = Check-O-Matic*	**6** = Installed G835 Nozzle*	**P5** = 50 PSI (nozzles 2 to 12)	**S** = SSU*
	D = Decoder Valve-In-Head		**P6** = 65 PSI (nozzles 10 to 12)	
	DD = Two-station Decoder Valve-In-Head			
	E = Electric Valve-In-Head			
	** Converts to N.O. Hydraulic Valve-In-Head*	** Available in SSU models only* *SSU = #6* *Includes 8-nozzle rack*	** SSU = P5/#6*	** Standard Stocking Unit*

Example:
G835 - E - 6 - P5 - S = G835 full/part circle electric valve-in-head, installed #6 nozzle, 50 PSI regulation, standard stocking unit model

G835 NOZZLE PERFORMANCE DATA*

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
2 Yellow	40	18	1.9	0.56	0.65
	50	20	2.1	0.51	0.58
	60	22	2.4	0.48	0.55
	65	23	2.6	0.47	0.55
3 Yellow	40	23	3.0	0.55	0.63
	50	25	3.2	0.49	0.57
	60	27	3.5	0.46	0.53
	65	28	3.6	0.44	0.51
4 Yellow	40	25	3.9	0.60	0.69
	50	28	4.1	0.50	0.58
	60	30	4.4	0.47	0.54
	65	31	4.6	0.46	0.53
5 Yellow	40	29	4.7	0.54	0.62
	50	32	5.0	0.47	0.54
	60	33	5.3	0.47	0.54
	65	35	5.4	0.42	0.49
6 Yellow	40	32	6.0	0.56	0.65
	50	35	6.3	0.50	0.57
	60	37	6.6	0.46	0.54
	65	39	6.8	0.43	0.50
8 Yellow	40	36	7.8	0.58	0.67
	50	39	8.0	0.51	0.58
	60	42	8.3	0.45	0.52
	65	43	8.5	0.44	0.51
10 Yellow	40	39	9.7	0.61	0.71
	50	43	10.1	0.53	0.61
	60	45	10.3	0.49	0.57
	65	47	10.5	0.46	0.53
12 Yellow	40	44	12.0	0.60	0.69
	50	47	12.2	0.53	0.61
	60	48	12.5	0.52	0.60
	65	50	12.8	0.49	0.57

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

G835 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 G835 and G885 rotors.

B SERIES

Models: **G80B**
Radius: **67' to 88'**
Flow: **22.5 to 57.9 GPM**

FEATURES

- Model: G80B: Full circle opposing nozzles
- Color-coded nozzles:
  - 6 standard trajectory (25°)
- Nozzle range: #25 to #53
- Exclusive PressurePort™ nozzle technology
- Water lubricated gear-drives
- Check height up to 10' in elevation change

OPERATING SPECIFICATIONS

- G80B
  - Radius: 67' to 88'
  - Flow: 22.5 to 57.9 GPM
  - Pressure range: 65 to 100 PSI
- All B Series rotors are pressure rated at 150 PSI

G80B
Pop-up height: 3"
Overall height: 9⅝"
Flange diameter: 5⅜"
Female Inlet: 1¼" ACME

G80B – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Valve Options	3 Nozzle	4 Options*
G80 = Full Circle	**B** = Block rotor with check valve	**25 to 53** = Installed G80 Nozzle* ** SSU = #25 & #48*	**S** = SSU* ** Standard Stocking Unit*

Example:
G80 - B - 25 - S = G80 full circle block rotor, installed #25 nozzle, standard stocking unit model

G80B NOZZLE PERFORMANCE DATA*

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
25 Lt. Blue	65	67	22.5	0.48	0.56
	70	69	23.9	0.48	0.56
	80	71	26.0	0.50	0.57
	90	72	27.9	0.52	0.60
	100	73	29.8	0.54	0.62
33 Gray	65	73	31.0	0.56	0.65
	70	74	32.2	0.57	0.65
	80	76	34.7	0.58	0.67
	90	77	37.0	0.60	0.69
	100	78	38.8	0.61	0.71
38 Red	65	76	35.1	0.58	0.68
	70	77	36.3	0.59	0.68
	80	79	38.5	0.59	0.69
	90	80	40.5	0.61	0.70
	100	81	42.9	0.63	0.73
43 Dk. Brown	65	78	39.2	0.62	0.72
	70	79	40.8	0.63	0.73
	80	82	43.7	0.63	0.72
	90	83	46.5	0.65	0.75
	100	84	48.8	0.67	0.77
48 Dk. Green	65	82	43.8	0.63	0.72
	70	83	46.3	0.65	0.75
	80	85	49.0	0.65	0.75
	90	86	51.9	0.68	0.78
	100	87	54.4	0.69	0.80
53 Dk. Blue	65	83	46.9	0.66	0.76
	70	84	49.1	0.67	0.77
	80	87	52.6	0.67	0.77
	90	88	54.8	0.68	0.79
	100	88	57.9	0.72	0.83

* Complies to ASAE standard. All precipitation rates calculated for 360˚

G80B NOZZLES

G80B

GOLF ROTORS

B SERIES

Models: **G84B & G85B**
Radius: **49' to 93'**
Flow: **14.4 to 58.3 GPM**

FEATURES

- Models:
  - G84B: Full circle opposing nozzles
  - G85B: True full circle/adjustable part circle (60° to 360°)
- QuickCheck™ arc mechanism (G85B)
- QuickSet-360 arc mechanism (G85B)
- Dual trajectory color-coded nozzles:
  - G84B: 10 standard trajectory (25°)
  - G85B: 12 standard trajectory (22.5°)
  - G84B & G85B: 9 low-angle trajectory (15°)
- Nozzle range:
  - G84B: #25 to #53
  - G85B: #10 to #53
- Exclusive PressurePort™ nozzle technology
- Contour "Back-Nozzle" capabilities (G85B)
- Ratcheting stainless steel riser (G85B)
- Water lubricated gear-drives
- Check height up to 10' in elevation change

OPERATING SPECIFICATIONS

- G84B
  - Radius: 49' to 93'
  - Flow: 14.4 to 58.3 GPM
  - Pressure range: 65 to 100 PSI
- G85B
  - Radius: 43' to 91'
  - Flow: 8.2 to 57.5 GPM
  - Pressure range: 50 to 100 PSI
- All B Series rotors are pressure rated at 150 PSI

G84B
Pop-up height: 3"
Overall height: 9⅝"
Flange diameter: 5⅜"
Female Inlet: 1¼" ACME

G85B
Pop-up height: 3"
Overall height: 9⅝"
Flange diameter: 5⅜"
Female Inlet: 1¼" ACME

G84B & G85B – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Valve Options	3 Nozzle	4 Options*
G84 = Full Circle	**B** = Block rotor with check valve	**15 to 53** = Installed G84 Nozzle* ** SSU = #18, #25 & #48*	**S** = SSU* ** Standard Stocking Unit*
G85 = Full/Part Circle 60° - 360°	**B** = Block rotor with check valve	**10 to 53** = Installed G85 Nozzle** *** SSU = #18, #25 & #48*	**S** = SSU* ** Standard Stocking Unit*

Example:
G84 - B - 25 - S = G80 full circle block rotor, installed #25 nozzle, standard stocking unit model

G84B NOZZLE PERFORMANCE DATA*

Nozzle Set			Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
● Tan 803611	15 White	● Gray 315317	50	49	14.4	0.58	0.67
			60	51	16.1	0.59	0.69
			65	52	16.8	0.60	0.69
			70	53	17.2	0.59	0.68
			80	55	18.2	0.58	0.67
● Tan 803611	18 Orange	● Gray 315317	50	55	17.5	0.56	0.64
			60	56	18.8	0.58	0.67
			65	57	19.6	0.58	0.67
			70	59	20.5	0.57	0.65
			80	61	21.8	0.56	0.65
● Tan 803611	20 Brown	● Gray 315317	50	57	17.2	0.51	0.59
			60	61	18.8	0.49	0.56
			65	62	19.7	0.49	0.57
			70	63	20.6	0.50	0.58
			80	64	22.1	0.52	0.60
● Tan 803611	23 Green	● Lt. Blue 315311	50	63	19.8	0.48	0.55
			60	65	22.0	0.50	0.58
			65	66	22.9	0.50	0.58
			70	67	23.8	0.51	0.59
			80	67	25.6	0.55	0.63
● Tan 803611	25 Blue	● Lt. Blue 315311	65	71	28.6	0.55	0.63
			70	73	29.7	0.54	0.62
			80	74	31.7	0.56	0.64
			90	75	33.7	0.58	0.67
			100	75	35.8	0.61	0.71
● Tan 803611	33 Gray	● Lt. Blue 315311	65	73	30.9	0.56	0.64
			70	75	32.2	0.55	0.64
			80	76	34.4	0.57	0.66
			90	77	36.3	0.59	0.68
			100	79	38.1	0.59	0.68
● Tan 803611	38 Red	● Lt. Blue 315311	65	75	35.0	0.60	0.69
			70	76	36.5	0.61	0.70
			80	78	39.0	0.62	0.71
			90	79	41.3	0.64	0.74
			100	82	43.4	0.62	0.72
● Tan 803611	43 Dk. Brown	● Blue 315300	-	-	-	-	-
			-	-	-	-	-
			80	83	43.4	0.61	0.70
			90	85	46.3	0.62	0.71
			100	87	48.6	0.62	0.71
● Dk. Brown 803610	48 Dk. Green	● Dk. Blue 833500	-	-	-	-	-
			-	-	-	-	-
			80	85	47.9	0.64	0.74
			90	89	50.5	0.61	0.71
			100	91	53.2	0.62	0.71
● Dk. Brown 803610	53 Dk. Blue	● Dk. Blue 833500	-	-	-	-	-
			-	-	-	-	-
			80	89	52.2	0.63	0.73
			90	91	55.4	0.64	0.74
			100	93	58.3	0.65	0.75

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

G85B NOZZLE PERFORMANCE DATA*

Nozzle Set			Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
Orange 803603	10 Lt. Green	Dk. Green 315312	50	43	8.2	0.43	0.49
			60	44	9.8	0.49	0.56
			65	45	10.1	0.48	0.55
			-	-	-	-	-
●	●	●	-	-	-	-	-
Orange 803603	13 Lt. Blue	White 315314	50	48	11.7	0.49	0.56
			60	50	12.8	0.49	0.57
			65	51	13.4	0.50	0.57
			-	-	-	-	-
●	●	●	-	-	-	-	-
Orange 803603	15 White	White 315314	50	52	13.3	0.47	0.55
			60	53	14.7	0.50	0.58
			65	54	15.2	0.50	0.58
			-	-	-	-	-
●	●	●	-	-	-	-	-
Orange 803603	18 Orange	Lt. Green 315313	50	55	16.7	0.53	0.61
			60	57	17.8	0.53	0.61
			65	58	18.2	0.52	0.60
			-	-	-	-	-
●	●	●	-	-	-	-	-
Orange 803603	20 Tan	Lt. Green 315313	50	58	18.4	0.53	0.61
			60	60	19.6	0.52	0.61
			65	61	20.5	0.53	0.61
			70	61	21.5	0.56	0.64
●	●	●	80	62	22.6	0.57	0.65
Orange 803603	23 Green	Lt. Green 315313	50	61	21.0	0.54	0.63
			60	63	22.8	0.55	0.64
			65	65	23.9	0.54	0.63
			70	66	25.8	0.57	0.66
●	●	●	80	67	27.9	0.60	0.69
Red 803602	25 Blue	Green 315310	65	69	29.4	0.59	0.69
			70	70	30.5	0.60	0.69
			80	71	32.4	0.62	0.72
			90	72	34.2	0.63	0.73
●	●	●	100	73	36.3	0.66	0.76
Red 803602	33 Grey	Green 315310	-	-	-	-	-
			-	-	-	-	-
			80	73	34.5	0.62	0.72
			90	74	36.7	0.65	0.74
●	●	●	100	76	38.5	0.64	0.74
Red 803602	38 Red	Green 315310	-	-	-	-	-
			-	-	-	-	-
			80	79	39.4	0.61	0.70
			90	79	41.2	0.64	0.73
●	●	●	100	80	42.9	0.65	0.75
Red 803602	43 Dk. Brown	Green 315310	-	-	-	-	-
			-	-	-	-	-
			80	80	43.5	0.65	0.76
			90	81	46.4	0.68	0.79
●	●	●	100	83	48.7	0.68	0.79
Dk. Red 803601	48 Dk. Green	Dk. Green 315312	-	-	-	-	-
			-	-	-	-	-
			80	85	49.3	0.66	0.76
			90	86	52.2	0.68	0.78
●	●	●	100	88	54.7	0.68	0.79
Dk. Red 803601	53 Dk. Blue	Dk. Green 315312	-	-	-	-	-
			-	-	-	-	-
			80	89	52.8	0.64	0.74
			90	90	55.2	0.66	0.76
●	●	●	100	91	57.5	0.67	0.77

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

* Preliminary performance data.

G84B NOZZLES

G85B NOZZLES

LOW-ANGLE NOZZLES**

** Low-angle nozzles reduce radius by 15%

GOLF ROTORS

B SERIES

Models: **G70B & G75B**
Radius: **47' to 75'**
Flow: **7.7 to 33.7 GPM**

FEATURES

- Models:
  - G70B: Full circle
  - G75B: Full/Part circle (50° to 360°)
- QuickCheck™ arc mechanism (G75B)
- QuickSet-360 arc mechanism (G75B)
- Nozzle choices:
  - G70B: 6 standard trajectory (25°)
  - G75B: 9 standard trajectory (25°)
- Nozzle range:
  - G70B: #15 to #28
  - G75B: #8 to #28
- Exclusive PressurePort™ nozzle technology
- Water lubricated gear-drive
- Check height up to 10' in elevation change

OPERATING SPECIFICATIONS

- G70B
  - Radius: 53' to 75'
  - Flow: 13 to 33.7 GPM
  - Pressure range: 50 to 100 PSI
- G75B
  - Radius: 47' to 71'
  - Flow: 7.7 to 32.3 GPM
  - Pressure range: 40 to 100 PSI
- All B Series rotors are pressure rated at 150 PSI

G70B
Pop-up height: 3"
Overall height: 9"
Flange diameter: 4¾"
Female Inlet: 1¼" ACME

G75B
Pop-up height: 3"
Overall height: 9"
Flange diameter: 4¾"
Female Inlet: 1¼" ACME

G70B & G75B - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Valve Options	3 Nozzle	4 Options
G70 = Full Circle	**B** = Block Rotor with Check Valve	**25** = Installed G70 Nozzle * * *Available in SSU model only* *SSU = #25* *Includes nozzle pack*	**S** = SSU * * *Standard Stocking Unit*
G75 = Full/Part Circle, 50° - 360° Arc Range	**B** = Block Rotor with Check Valve	**25** = Installed G75 Nozzle ** ** *Available in SSU model only* *SSU = #25* *Includes nozzle pack*	**S** = SSU * * *Standard Stocking Unit*

Example:
G70 - B - 25 - S = G70 full circle block rotor, installed #25 nozzle with nozzle pack, standard stocking unit model

G70B NOZZLE PERFORMANCE DATA*

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
15 ● Gray	50	53	13.0	0.45	0.51
	60	54	14.1	0.47	0.54
	65	55	14.8	0.47	0.54
	70	56	15.5	0.48	0.55
	80	58	16.3	0.47	0.54
18 ● Red	50	58	14.2	0.41	0.47
	60	59	15.9	0.44	0.51
	65	60	16.3	0.44	0.50
	70	60	16.9	0.45	0.52
	80	61	17.8	0.46	0.53
20 ● Dk. Brown	60	61	18.8	0.49	0.56
	65	62	19.6	0.49	0.57
	70	63	20.5	0.50	0.57
	80	64	22.0	0.52	0.60
	90	64	23.4	0.55	0.63
23 ● Dk. Green	60	63	20.1	0.49	0.56
	65	65	21.0	0.48	0.55
	70	65	21.9	0.50	0.58
	80	66	23.4	0.52	0.60
	90	67	24.9	0.53	0.62
25 ● Dk. Blue	60	65	21.8	0.50	0.57
	65	67	22.5	0.48	0.56
	70	67	23.6	0.51	0.58
	80	69	25.3	0.51	0.59
	90	71	26.9	0.51	0.59
28 ● Black	70	71	28.1	0.54	0.62
	80	71	29.9	0.57	0.66
	90	73	31.8	0.57	0.66
	100	75	33.7	0.58	0.67

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

G75B NOZZLE PERFORMANCE DATA*

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
8 ● Lt. Brown	40	47	7.7	0.34	0.39
	50	49	8.3	0.33	0.38
	60	50	9.2	0.35	0.41
	65	50	9.5	0.37	0.42
	70	51	9.9	0.37	0.42
10 ● Lt. Green	50	53	10.9	0.37	0.43
	60	54	12.0	0.40	0.46
	65	54	12.5	0.41	0.48
	70	55	13.1	0.42	0.48
	80	56	14.3	0.44	0.51
13 ● Lt. Blue	50	55	11.2	0.36	0.41
	60	56	12.3	0.38	0.44
	65	56	12.8	0.39	0.45
	70	57	13.3	0.39	0.45
	80	57	14.3	0.42	0.49
15 ● Gray	50	57	13.4	0.40	0.46
	60	58	14.3	0.41	0.47
	65	59	14.8	0.41	0.47
	70	59	15.3	0.42	0.49
	80	60	16.4	0.44	0.51
18 ● Red	50	60	14.5	0.39	0.45
	60	61	15.7	0.41	0.47
	65	61	16.3	0.42	0.49
	70	62	16.9	0.42	0.49
	80	63	18.2	0.44	0.51
20 ● Dk. Brown	60	62	17.8	0.45	0.51
	65	62	18.2	0.46	0.53
	70	63	19.2	0.47	0.54
	80	64	20.5	0.48	0.56
	90	65	21.8	0.50	0.57
23 ● Dk. Green	60	64	21.9	0.51	0.59
	65	65	21.4	0.49	0.56
	70	65	23.6	0.54	0.62
	80	66	25.6	0.57	0.65
	90	67	27.0	0.58	0.67
25 ● Dk. Blue	60	65	23.5	0.54	0.62
	65	65	24.8	0.56	0.65
	70	67	25.6	0.55	0.63
	80	69	27.3	0.55	0.64
	90	71	29.0	0.55	0.64
28 ● Black	70	66	26.9	0.59	0.69
	80	68	28.9	0.60	0.69
	90	70	30.6	0.60	0.69
	100	71	32.3	0.62	0.71

G70B & G75B NOZZLES

G70B

G75B

B SERIES

Model: **G35B**
Radius: **18' to 50'**
Flow: **1.9 to 12.8 GPM**

FEATURES

- Model: G35B: Full/Part circle (50° - 360°)
- QuickCheck™ arc mechanism
- QuickSet-360 arc mechanism
- Nozzle choices:
  - 8 multi-trajectory 15°–25°
- Nozzle range:
  - #2 to #12
- Water lubricated gear-drives
- Check height up to 10 ft. in elevation change

OPERATING SPECIFICATIONS

- G35B
  - Radius: 18' to 50'
  - Flow: 1.9 to 12.8 GPM
  - Pressure range: 40 to 65 PSI
  - All B Series rotors are pressure rated at 150 PSI

G35B
Pop-up height: 3"
Overall height: 9"
Flange diameter: 4¾"
Female Inlet: 1¼" ACME

G35B – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Valve Options	3 Nozzle	4 Options*
G35 = 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:
G35 - B - 6 - S = G35 full/part circle block rotor, installed #6 nozzle with nozzle rack, standard stocking unit model

G35B NOZZLE PERFORMANCE DATA*

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
2 Yellow	40	18	1.9	0.56	0.65
	50	20	2.1	0.51	0.58
	60	22	2.4	0.48	0.55
	65	23	2.6	0.47	0.55
3 Yellow	40	23	3.0	0.55	0.63
	50	25	3.2	0.49	0.57
	60	27	3.5	0.46	0.53
	65	28	3.6	0.44	0.51
4 Yellow	40	25	3.9	0.60	0.69
	50	28	4.1	0.50	0.58
	60	30	4.4	0.47	0.54
	65	31	4.6	0.46	0.53
5 Yellow	40	29	4.7	0.54	0.62
	50	32	5.0	0.47	0.54
	60	33	5.3	0.47	0.54
	65	35	5.4	0.42	0.49
6 Yellow	40	32	6.0	0.56	0.65
	50	35	6.3	0.50	0.57
	60	37	6.6	0.46	0.54
	65	39	6.8	0.43	0.50
8 Yellow	40	36	7.8	0.58	0.67
	50	39	8.0	0.51	0.58
	60	42	8.3	0.45	0.52
	65	43	8.5	0.44	0.51
10 Yellow	40	39	9.7	0.61	0.71
	50	43	10.1	0.53	0.61
	60	45	10.3	0.49	0.57
	65	47	10.5	0.46	0.53
12 Yellow	40	44	12.0	0.60	0.69
	50	47	12.2	0.53	0.61
	60	48	12.5	0.52	0.60
	65	50	12.8	0.49	0.57

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

G35B NOZZLES

HQ5LRC Quick Coupler

with HSJ-1 SnapLok™ equipped swing joint

Introducing Hunter's new full line of HSJ heavy-duty swing joints with configurations for every need and every project. There is even a version specifically designed for quick coupler applications. The SnapLok outlet on HSJ-1 models come equipped with accommodations for both rebar and pipe stabilization, as well as heavy-duty brass outlet threads with a unique anti-rotation locking feature.

See the new HSJ swing joints on page 36

ROTOR ACCESSORIES

HOSE-SWIVEL ADAPTERS

Models

- Hose swivel adapter for G90 and G900 Series (fits ¾" & 1" hose) P/N G90HS100
- Hose swivel adapter for G800 Series (fits ¾" & 1" hose) P/N G800HS100

Hose Swivel Adapters

RUBBER COVER KITS

Models

- G990 rubber cover kit (date codes 06/11 & prior only) P/N 473800
- G995 rubber cover kit (also G990 date codes 07/11 & after) P/N 473900

Rubber Cover Kit

RT SERIES

Models: **G70RT, G75RT & G80RT**
Radius: **47' to 88'**
Flow: **7.7 to 57.9 GPM**

FEATURES

- Models:
  - G70RT: Full circle riser with nozzle set
  - G75RT: Full/Part circle riser with nozzle set
  - G80RT: Full circle riser with nozzle set
- Works with all 1" and 1½" inlet Toro® golf rotors (except 800 and 690 Series)
- Converts current sprinklers into closed-case rotors
- The RT upgrade extends the life of existing irrigation systems
- Performance, reliability and long life
- Upgrade takes less than 5 minutes

G70RT, G75RT
Pop-up height: 3"

G80RT
Pop-up height: 3"

Quick and Easy Upgrade!
The RT retro upgrade takes just minutes and extends the life and reliability of aging irrigation systems.

G70RT/G75RT RETRO RISERS

To Replace TORO®	Use Hunter Model/Nozzle Nozzle	G70RT Full Circle	G75RT Full/Part Circle
630	31	15	15
	32	18	18
	33	20	20
	34	28	–
660	62	15	15
	63	18	18
	64	25	25
	65	28	–
730	31	15	15
	32	18	18
	33	20	20
	34	23	23
	35	28	–
760	62	15	15
	63	18	18
	64	20	23
	65	25	25
	66	28	–

G80RT RETRO RISERS

To Replace TORO®	Use Hunter Model/Nozzle Nozzle	G80RT Full Circle
650	56	23
	57	33
	58	33
	59	38
670	70	43
	71	48
	72	48
680	84	25
	85	33
	86	33
	87	43
	88	48
750	54	25
	55	33
	56	38
	57	43
	58	48
780	84	25
	85	25
	86	33
	87	38
	88	43
	89	48

HSJ SWING JOINTS

BY LASCO FITTINGS, INC.

FEATURES

- Heavy-duty prefabricated PVC swing joints with O-ring seals
- Available in all popular inlet and outlet configurations
- Choose from 8",12" and 18" lay arm lengths and Single Top-Out or Triple Top-Out designs
- Unique SnapLok™ outlet with brass threads offers excellent support and durability for quick coupler installations
- Match HSJ swing joint and Hunter golf rotor purchases to qualify for an upgraded 5-year component exchange golf rotor warranty*

* Must be purchased from authorized Hunter Golf distributor to qualify for extended warranty program.

Swing Joints
HSJ-0 = Model ¾"
HSJ-1 = Model 1"
HSJ-2 = Model 1¼"
HSJ-3 = Model 1½"

SWING JOINT – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Inlet Type	3 Outlet Type	4 Outlet Style	5 Lay Length
HSJ-0 = ¾" Commercial Swing Joint	**2** = Spigot - Short	**2** = Male - NPT	**2** = Single Top-Out	**8** = 8" Lay Arm*
	3 = Male - NPT	**3** = Enlarging - to 1½" Male NPT*		
HSJ-1 = 1" Heavy-Duty Swing Joint	**4** = Male - ACME*	**6** = Enlarging - to 1½" (40 mm) Male BSP*	**4** = Triple Top-Out*	**12** = 12" Lay Arm
	7 = Spigot - 4" Long**	**8** = Enlarging - to 1½" Male ACME*		
HSJ-2 = 1¼" Heavy-Duty Swing Joint	**M** = Main ACME H-Connection ***	**0** = Male ACME		**18** = 18" Lay Arm**
	P = Main ACME V-Connection ****	**A** = Enlarging/Reducing - to 1¼" Male ACME**		
HSJ-3 = 1½" Heavy-Duty Swing Joint		**S** = Male - Brass NPT SnapLok™ ***		
	* *Not available in HSJ-0 or HSJ-3. Use "M" inlet.*			
	** *Not available in HSJ-0.*	* *Not available in HSJ-0 or HSJ-3*	* *Not available in S Outlet Type*	* *HSJ-0 only*
	*** *Horizontal connection reduces from 1½" ACME to swing joint size*	** *Not available in HSJ-0 and HSJ-2*		** *Not available in HSJ-0*
	****Vertical connection reduces from 1½" ACME to swing joint size*	***HSJ-1 model only - for quick coupler*		

Example:
HSJ - 3 - M - 0 - 2 - 12 = HSJ 1½" heavy-duty swing joint, 1½" Male ACME horizontal connection to mainline tee, 1½" Male ACME single top outlet, 12" lay arm length.

ACME ADAPTER FITTINGS

1¼" Models

1¼" male ACME x 1" female NPT	P/N 109325
1¼" male ACME x 1" female BSP	P/N 105329
1¼" male ACME x 1¼" female NPT	P/N 474800
1¼" male ACME x 1¼" female BSP	P/N 474900
1¼" male ACME x 1½" female NPT	P/N 104153
1¼" male ACME x 1½" female BSP	P/N 107262

ACME x ACME Models

1½" male ACME x 1" ACME female	P/N 225300
1½" male ACME x 1¼" ACME female	P/N 225400
1¼" male ACME x 1" ACME female	P/N 225500

1½" Models

1½" male ACME x 1" female NPT	P/N 475400
1½" male ACME x 1" female BSP	P/N 475500
1½" male ACME x 1¼" female NPT	P/N 475200
1½" male ACME x 1¼" female BSP	P/N 475300
1½" male ACME x 1½" female NPT	P/N 475000
1½" male ACME x 1½" female BSP	P/N 475100

B2B Tee Assembly

1½" ACME threaded tee and 1½" 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 = NPT Inlet
P/N = HSJ-305-015-M = ACME Inlet (shown)

TOOLS

Arc Adjustment/ Riser Hold-up Tool
P/N 382800
G85B/G885

Valve Insertion/Removal Tool
P/N 604000
G800 Series

Valve Insertion/Removal Tool
P/N 052805
G900/G90 Series

Valve & Snap Ring Insertion/Removal Pliers
P/N 475600
G800 Series

Valve Flushing Tool
P/N 609400
G800/G900 Series

Snap Ring Removal Tool
P/N 052510
All Golf Models

"T" Handle Tool
P/N 053191

Hand Pump
P/N 460302

Pitot Gauge
P/N 280100

Nozzle Removal/ Installation Tool
P/N 803700
G85B, G885 Short and Mid-Range Nozzles

Hunter Wrench
P/N 172000

ACCESSORIES

SPOTSHOT HOSE - END NOZZLE

Models

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

Features

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

Operating Specifications

- Flow: 35 GPM at 80 PSI*

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

SpotShot Hose End Nozzles
¾" P/N 160700
1" P/N 160705

Jet Stream Nozzle

Soak Stream Nozzle

Fan Stream Nozzle


PILOT RC

SECTION 02:

CENTRAL CONTROL

PILOT™ SOFTWARE

Pilot is easy to use and has all the features you need to reliably and automatically water your course. Runtimes can be adjusted manually or determined automatically using ET. Irrigation is scheduled through a powerful programming matrix which lets you see every sprinkler on the course while you make your adjustments. Pilot offers two types of water management—flow-optimized and Field Controller Program (FCP). When flow-optimized, electrical and hydraulic demand are efficiently managed to ensure your watering window is as short as possible. When you use an FCP you have total control over when, where and how long sprinklers run—perfect for overseeding, seed germination, grow-in and other cultural practices where optimal use of the pump station is a secondary concern. FCPs can be retrieved into the central control software, edited, and then sent back to the Pilot Hub or Controller. So you can manage all your controller schedules from the computer in your office.

PILOT SOFTWARE SPECIFICATIONS

- Operating system: 64-bit Windows 8
- Maximum system programs: Unlimited
- Maximum field controllers: 999
- Maximum stations: 79,920
- ET-based scheduling: Weather station or manually entered
- Hydraulic management: Automated and graphed to individual stations
- Mapping: Available using jpeg image file

Note: Windows® is a registered trademark of The Microsoft Corporation

Overview - Pilot

GO WITH THE FLOW

Pilot 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, irrigation can be gradually stepped up in safe increments.

Flow Optimization

CREATE AND EDIT SCHEDULES OUT ON THE COURSE

With Pilot, critical irrigation is not dependent upon the whims and availability of a computer or communications link where it is subject to a single point of failure. Pilot software creates schedules, then sends them to the field where controllers do the actual irrigating. Because Pilot field controllers are packed with intelligence, you can even create and edit schedules out on the course and transfer them back to Pilot for review and editing.

Schedule Creation

MAPPING YOUR COURSE

Although it is not required to have a map, adding one allows you to run water by clicking the station symbols on the map, monitor stations as they are running, and adjust certain settings.

Maps

PILOT™ CONTROLLER

Number of Stations: **80**
Type: **Field Controller**

FEATURES

- 5 languages
- Up to 80 station outputs in 10-station increments
- Up to 3 Hunter golf valve-in-head rotors per station output
- Up to 20 simultaneous Hunter golf valve-in-head rotors per controller
- 32 automatic schedules with 8 start times per schedule
- Exclusive Safe-Toggle™ mechanical on-off-auto station switches
- 1–31 day skip-day scheduling
- One-touch rain shutdown up to 30 days or indefinitely
- One-touch Safe-Pause™ with 30 minute safety timer
- 1–300% runtime seasonal adjustment
- Seasonal start time adjustment is used to quickly change all start times plus or minus 30 minutes

POWER SUPPLY INPUT

- 120/230 VAC at 60/50 Hz
- 1.2 amps maximum at 120 VAC
- 0.73 amps maximum at 230 VAC

POWER SUPPLY OUTPUT

- Station output: 1 Amp at 24 VAC
- 24 VAC Hot Post output: 420 mA at 24 VAC
- Solenoid Capacity: 3 standard 24 VAC Hunter golf valve-in-head rotors per output, 18 maximum simultaneous stations

RADIO SYSTEMS

- UHF Radio: 450-470 MHz; other frequeny ranges available for selected markets
- License Free Radio: 915 MHz (US) and 2.4 GHz (international)

WIRED SYSTEMS

- GCBL: Shielded two twisted pairs, 18 AWG
- GCBLA: Armored, shielded two twisted pairs, 18 AWG

Pilot-FC Plastic Pedestal
Height: 39"
Width: 24"
Depth: 17"
Weight: 70 lbs.

Pilot-FI Field Interface
One is required with any central control system. It is used to link the central computer to the field equipment. For indoor locations only.

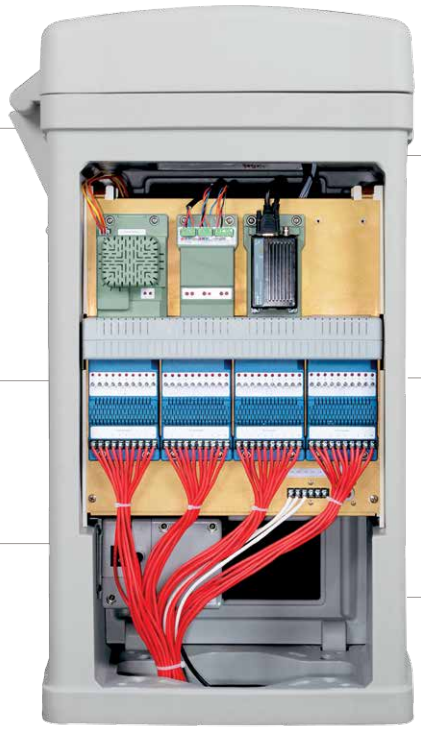
Height: 12"
Width: 11½"
Depth: 3¼"
Weight: 4.5 lbs.

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

1 Model	2 Standard Features	3 Options	
Pilot-FI	Plastic pedestal (gray)	**HWR**	Hardwire communications
		UHF	UHF radio communications (US only)
		LF	License-free radio communications
		ILF	License-free radio communications

Examples:
Pilot-FI-HWR Field interface with hardwire communications
Pilot-FI-UHF Field interface with UHF radio communications (US only)
Pilot-FI-ILF Field interface with international license-free radio communications

THE PILOT FIELD CONTROLLER WAS BUILT SPECIFICALLY FOR GOLF COURSE IRRIGATION CONTROL.



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.

Auto/On/Off Switches and Diagnostic LED Indicators
Standard for all station outputs, 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 included with every controller.

Modular 10-Station Expansion Boards
Color-coded modular components with captured screws so they won't get lost, making it easy to assemble and troubleshoot.

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.

CENTRAL CONTROL

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

1 Model	2 Standard Features	3 Options	
Pilot-FC30 (30-station)		**S**	Stand-alone field controller with no central communications
Pilot-FC40 (40-station)		**HWR**	Hardwire communications
Pilot-FC50 (50-station)	Plastic pedestal (gray)	**UHF**	UHF radio communications (US only)
Pilot-FC60 (60-station)	120/230 VAC 60/50 Hz dual-voltage transformer	**LF**	License-free spread spectrum radio communications (900 MHz for North America and wherever permitted)
Pilot-FC70 (70-station)		**ILF**	License-free spread spectrum radio communications (2.4 GHz for international, where permitted)
Pilot-FC80 (80-station)			

Examples:
Pilot-FC40-S 40-station, stand-alone field controller with no central communications
Pilot-FC70-HWR 70-station field controller with hardwire communications
Pilot-FC80-ILF 80-station field controller with international license-free radio communications

PILOT™ DECODERS

Number of Stations: **999**
Type: **Decoder System**

Decoder installations continue to be one of the fastest growing forms of technology in irrigation control. A key advantage over conventional systems is that decoders use less wire for an overall irrigation system. That in turn means lower cost as well as quicker installation time and easier system diagnosis and repair if needed. Systems can be easily expanded—with minimal digging and disruption of landscaping—by adding in more decoders rather than running additional wires.

Pilot enables you to take advantage of this cost-efficient approach. Pilot decoders are available with 1, 2, 4 and 6-station outputs, making it possible to run each head on an entire green with a single decoder. In all, decoders let you operate up to 999 stations out to 2.7 miles from a single hub.

Pilot decoder systems include built-in surge suppression, color-coded wire connections, true independent station control, programmable station addresses, and two-way feedback to the controller with confirmation and status indication.

Pilot-SG surge protectors are required when system is designed and installed with Decoder-In-Head (DIH) rotors.

Pilot Decoder Hub

Water-Resistant Keypad
Backlit display and secondary LED facepack means it can be used day or night

Diagnostic LED Indicators
For all functions on decoder output module

250-Station Output Modules
Enables your decoder hub to grow with your course. Start with 250 - grow to 999

Pilot Decoders
1 & 2 Station Decoders:
Height: 3⅝"
Width: 1½"
Depth: 1"
Weight: 5 oz.

4 & 6 Station Decoders:
Height: 3⅝"
Width: 1¾"
Depth: 1½"
Weight: 9 oz.

Distinct yellow design makes it much easier to find decoders in dark valve boxes or buried in the soil.

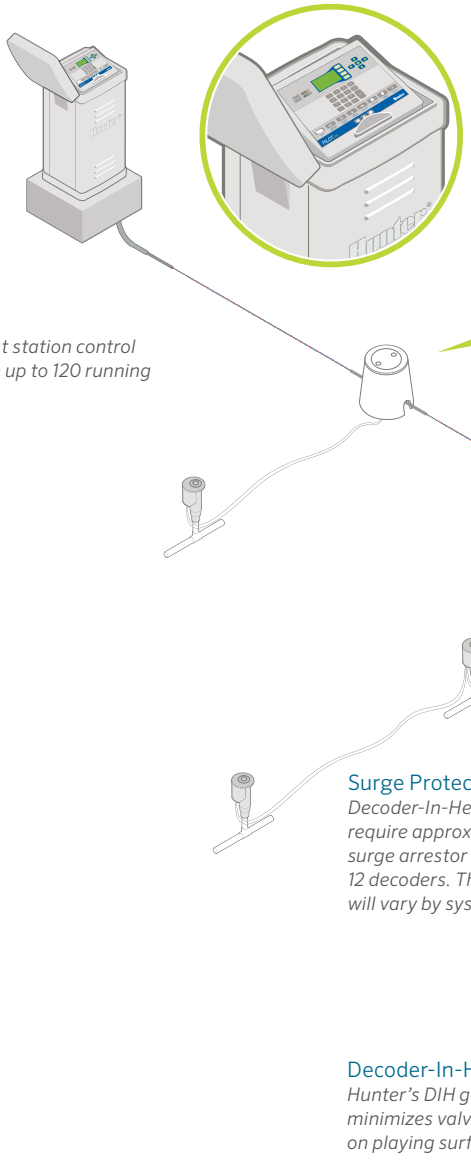
DS-G Surge Ground Arrestor

All DIH rotors include two IBM DBRY-6 splices for connection to the 2-wire path. DIH rotor control systems require grounding with Pilot-SG surge suppressors coupled to appropriate grounding plate or rod. Hunter recommends a minimum of one Pilot-SG for every 12 installed DIH rotors or as per project specification.

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

1 Model	2 Standard Features	3 Options	
Pilot-DH250 (250-station)	Plastic pedestal (gray)	**S**	Stand-alone decoder hub with no central communications
Pilot-DH500 (500-station)		**HWR**	Hardwire communications
Pilot-DH750 (750-station)		**UHF**	UHF radio communications (US only)
Pilot-DH999 (999-station)		**LF**	License-free spread spectrum radio communications (900 MHz for North America and wherever permitted)
		ILF	License-free spread spectrum radio communications (2.4 GHz for international, where permitted)

Examples:
Pilot-DH250-S 250-station, stand-alone decoder hub with no central communications
Pilot-DH750-ILF 750-station decoder hub with international license-free radio communications
Pilot-DH999-HWR 999-station decoder hub with hardwire communications



Extend control up to 2.7 miles
with a single pair of wires

Pilot-DH
provides independent station control of 999 decoders with up to 120 running simultaneously

Decoder in valve box
Runs up to 150 ft. from decoder to solenoids

Surge Protection
Decoder-In-Head systems require approximately one Pilot surge arrestor for every 12 decoders. The actual number will vary by system design

Expansion options
If your course has over 999 stations, you can use up to 999 decoder hubs for 998,001 decoders

Decoder-In-Head
Hunter's DIH golf rotor minimizes valve box covers on playing surface

DECODERS – SPECIFICATION BUILDER ORDER 1 + 2

1 Model		2 Standard Features
Pilot-100	1-station decoder	Built-in surge protection
Pilot-200	2-station decoder	DBRY-6 Waterproof Connectors included
Pilot-400	4-station decoder	
Pilot-600	6-station decoder	
Pilot-SG	Inline surge protection (for DIH rotor systems)	

Example:
Pilot-100 1-station decoder

Wireless Programming!
Communicate with decoders directly through plastic case: wireless electro-magnetic induction saves waterproof connectors

See the ICD-HP on page 48

WEATHER STATION

Range: **Wireless ½ mile**
Type: **Weather Station**

FEATURES

- Includes built-in 60-day data logger: With onboard evapotranspiration (ET) calculation (modified Penman-Monteith equation for turf grass)
- Wireless package uses 2.4 GHz license-free technology
  - 2.4 GHz radio systems can reach up to 2,600 ft.
  - In rural areas, try the license-free, 900 MHz radio for links up to 2,600 ft.
- Wired systems use Hunter GCBL, direct-bury cable with a range of 4,000 ft. (dedicated 9-pin serial computer port required)
- Optional solar panel kit provides wireless power
  - For astonishing ease of installation and versatile mounting. On-board 800 mAh rechargeable gel cell battery with 18 VDC transformer and 20 ft. power cable
- Weatherproof construction: With UV stabilized enclosure, weather-proof external connectors and long-life coated circuit boards
- UL, c-UL and CE certifications

TurfWeather Station
Height: 24"
Width: 16"
Depth: 15"
Weight: 13 lbs.

CENTRAL CONTROL

COMPLETE PACKAGES INCLUDE HUNTER WEATHER SOFTWARE	
Model	**Description**
TWHW	Wired communications to central computer – GCBL cable is required
TW24	2.4 GHz license-free radio communication to central computer
TW916	916 MHz license-free radio communication to central computer
TW922A	922 MHz license-free radio communication to central computer
TWSUN	Optional solar power kit for all TurfWeather models

MAINTENANCE RADIO

Range: **Up to 2 miles**
Type: **Remote Control**

FEATURES

- Instant control of stations, blocks and programs
- Fewer buttons to push
- Instant audio confirmation of commands
- Hunter's famous StraightTalk™ Technology: Enables wireless remote control at ranges up to 2 miles whether or not the central computer is turned on
- 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 watts, UHF (450–470 MHz)*

*Note: *FCC license is required*

TRNR Radio
Height: 4"
Width: 2"
Depth: 1¼"
Weight: 7 oz.

ICD-HP

WIRELESS HANDHELD DECODER PROGRAMMER

Type: **Decoder Programmer**

FEATURES

- Program or re-program decoder stations, whether new or installed
- Program any station numbers in any order, or skip stations for future expansion
- Turn decoder stations on and view solenoid status, current in milliamps, and more
- Built-in voltmeter for decoder path
- Communicates with decoders directly through plastic case: wireless electro-magnetic induction saves waterproof connectors
- Communicates through the top of DIH rotors- no cover removal required

ICD-HP
Height: 21 cm
Width: 9 cm
Depth: 5 cm

Packaged in an outdoor carrying case, this complete kit includes probes, induction cup, cable, USB power cable for bench use, and 4 AA batteries for field work.

ICD-HP

STATEMENT OF WARRANTY Hunter Golf Irrigation

Hunter Industries Incorporated ("Hunter") will unconditionally repair, replace or repurchase, at its sole discretion, any defective Golf Product Components listed below by category, returned freight prepaid, within a period of:

GOLF ROTOR PRODUCTS

A. Three (3) years component* warranty from the date of manufacture
B. Five (5) years component* warranty from the date of manufacture with one-for-one matching purchase of HSJ Swing Joints from authorized Hunter Golf distributor

HSJ SWING JOINT PRODUCTS

C. Five (5) years component* warranty from the date of manufacture

GOLF CONTROLLER PRODUCTS

D. One (1) year component* warranty from the date of manufacture

COMPUTERS, PRINTERS & ACCESSORIES

E. Equipment manufacturer's warranty (no Hunter warranty)

MAINTENANCE RADIO & BATTERY

F. Equipment manufacturer's warranty (no Hunter warranty)

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.

* 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.

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

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

Hunter® | *Built on Innovation®*

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.

Gregory R. Hunter, President of Hunter Industries

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