Weathermatic®
Water Conserving Innovation

2018

Save Water | Give Life

Product Catalog

Weathermatic®
Water Conserving Innovation

We're driven by a simple purpose: To help you save water in the landscape where most water waste occurs. Using proven irrigation science and market-leading technology, our solutions help maximize landscape beauty while saving billions of gallons of water. Spend a few minutes reviewing some of our products. We think you will find they are among the most innovative in the industry and will help you fulfill your irrigation water management and savings needs.

Responsibility

Did you know that we give back one gallon of water to thirsty communities for every gallon our programs save?

SAVE **WATER** | GIVE **LIFE**

Save **Water** | Give **Life**

We found that a year's worth of overwatering from an average commercial property is equivalent to the clean water needed by 200 families in a developing country for drinking, cooking, and sanitation. This is why we dedicate a portion of our profits to global clean water projects. These contributions bring safe and clean water to thousands of the world's thirsty each year and last for generations.

With each purchase, you are more than a customer. You are part of a community that is actively saving landscape water and making a difference in our world.

The Weathermatic Team

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look for WaterSense Meets EPA Criteria

CONTROLLERS

SmartLink®

VALVES

SPRAYS & NOZZLES

ROTORS

ProLine®

The Professional Irrigation Controller

PL1600
4-Zone base model:
Expandable to 16 zones
PL1620
20-Zone fixed zone count

9 1/8" W x 10 1/2" H x 4" D
23,2 cm x 25,7 cm x 10,2 cm

SLM4
4-Zone
Module

SLM12-1600
12-Zone Module

BASIC FEATURES

- SmartLink® Aircard Compatible
- 4 programs: A, B, C; program D can operate concurrently
- 8 start times per program
- Indoor/Outdoor Rated
- English/Spanish
- Zone run times settable from 1 min. to 9 hrs. 55 min.
- Rain/Freeze sensing on/off button with Tri-Color LED indicator
- Rain delay of 1 – 7 days
- RFS5 Rain/Freeze Sensor rain delay programmable from 0 – 99 hours
- Seasonal % adjust by program, by month
- Omit time of day window, day(s) of week, and up to 7 calendar dates
- Programmable zone-to-zone delay 1 min. – 3 hrs.
- Watering days: custom days of the week, odd/even, or interval days
- Run/Soak cycles by program
- Large backlit LCD display
- Non-volatile memory – with no battery required
- Internal 120VAC/230VAC transformer with pre-installed 6' line cord

PL800
4-Zone base model:
Expandable to 8 zones

7" W x 7 3/4" H x 1 3/4" D
17,8 cm x 19,7 cm x 4,4 cm

SLM2
2-Zone Module

Model	Input	Output	Fuse
PL1600	120VAC/60Hz @ 400 mA for 3 valves	28VAC, 1.0A maximum	1.0A, slow blow
PL4800	5 valve		1.5A, slow blow

Switch between English and Spanish with the touch of a button

ProLine® Specifications				
Model	Description (Indoor/Outdoor)	Increase Zone Count	International Model	
PL800	4-Zone Base Model (Indoor)	SLM2 - 2 Zone / up to 8 Zones	E-PL800	230VAC/50Hz
PL1600	4-Zone Base Model	SLM4 - 4 Zone / up to 16 Zones SLM12-1600 - 12 Zone / up to 24 Zones	E-PL1600	
PL1620	20-Zone Fixed Zone Count	N/A	E-PL1620	
PL4800	12-Zone Base Model	SLM12-4800 - 12 Zone / up to 48 Zones	E-PL4800	

MANUAL OPERATION

- Manual test runs each zone with zone run times from 10 sec. – 10 min.
- Manual zone operation of a single zone (1 min. to 9 hrs. 55 min.)
- Push button manual start of a program from control panel

ON-SITE DIAGNOSTIC/TROUBLESHOOTING FEATURES

- Fault review displays all faults, including open and shorted zones
- Test function using on-board multi-meter
- Built-in valve locator
- Backtrack Stored Program™

ADDITIONAL FEATURES

- Zone-to-zone delay
- Master valve timing sequence with zone valve programmable
- Master valve/pump start operation assignable On/Off by zone
- Clear program function
- Clear All function
- Grow-In Program
- Includes power cord (PL800, PL1600 only)
- Upgradable to SmartLink® Web-based Access

PL4800
12-Zone base model:
Expandable to 48 zones

15" W x 16½" H x 5 7/16" D
38,1 cm x 41,9 cm x 13,8 cm

SLM12-4800
12-Zone Module

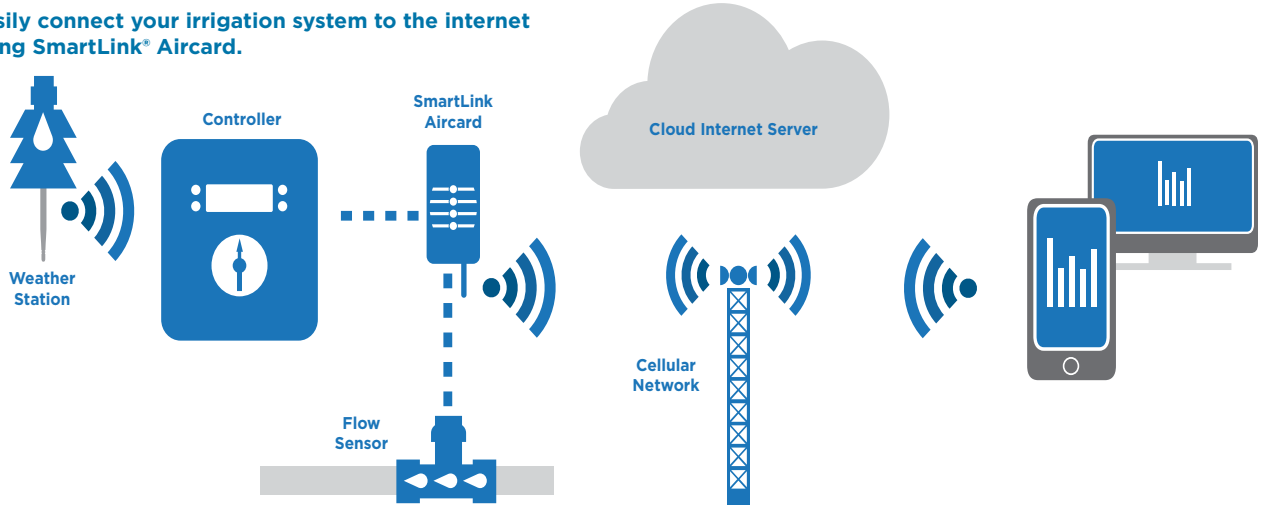
Weathermatic™ LIGHTNING WARRANTY

Beautify landscapes while saving water and money.

With SmartLink®, you have the power to control your irrigation system anywhere, anytime!

Easily connect your irrigation system to the internet using SmartLink® Aircard.

SmartLink® COMPATIBLE



RFS5

RFS5
Wireless Rain/Freeze Sensor

RFSHUB-5
Wireless Receiver (included)

Rain/Freeze Sensor Specification	
Model	Description
RFS5	Wireless Rain/Freeze Sensor 900 mhz - 1500' Line of Site Range

FEATURES

- Compatible with both ProLine® and SmartLine® controllers
- Rain shut-off settable from 1/8 – 1" (3 – 25mm)
- Extended rain delay adds time to rain events before deficits begin to accumulate
- Unit can be mounted in sunlight or shade and in close proximity to the roof-line
- On-board diagnostics indicate battery and communication status
- Remote battery strength measurement from the SmartLine® or ProLine® controller
- 10-Year battery life
- Adjustable arm plastic bracket for gutter thumb-screw or wall mount
- Operates on 900MHz frequency for superior range and reliability
- Maximum wireless distance from controller to weather station is 1500' (457m) line of site. SLHUB-RF-5 wireless hub included with SLW5

RFS5 ADDS:

- Freeze shut-off activated at 37°F (3.0°C)

Weathermatic™ LIGHTNING WARRANTY

RFS1

RSF1
Wired Rain/Freeze Sensor

Rain/Freeze Sensor Specification	
Model	Description
RFS1	Wired Rain/Freeze Sensor

FEATURES

- Rain shut-off settable from 1/8 – 1" (3 – 25mm)
- Extended rain delay adds time to rain events before deficits begin to accumulate
- Unit can be mounted in sunlight or shade and in close proximity to the roof-line
- On-board diagnostics indicate battery and communication status
- Remote battery strength measurement from the SmartLine® controller
- Adjustable arm plastic bracket for gutter thumb-screw or wall mount
- Wired directly to the SmartLine® controller via the 35 feet of included cable

RFS1 ADDS:

- Freeze shut-off activated at 37°F (3.0°C)

Weathermatic™ LIGHTNING WARRANTY

RainBrain

FEATURES

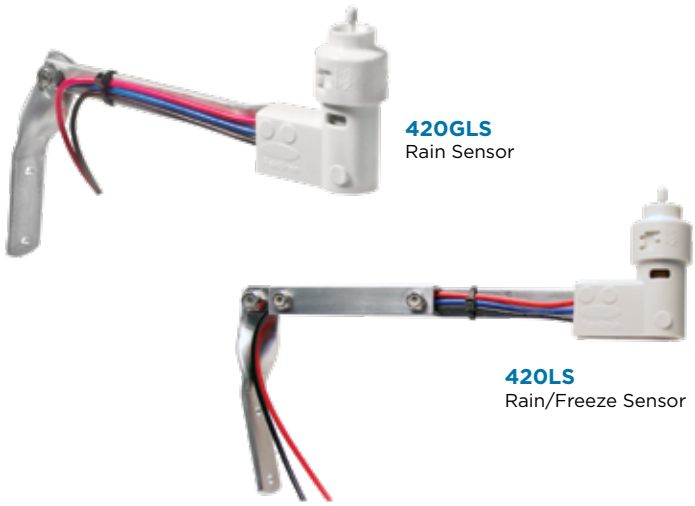
- Rain shut-off settable from 1/8– 1" (3 – 25mm)
- Tough UV-Stabilized plastic housing
- Replaceable absorptive disks
- No-Rust extruded aluminum bracket - mounts anywhere
- UL-listed watertight switch provides years of reliable service works with virtually all 24VAC controllers
- Each unit factory tested
- 35 feet of cable provided

420LS ADDS:

- Extra-long 7" aluminum bracket
- Factory-set freeze thermostat

Sensor Specification	
Model	Description
420GLS	Wired Rain Sensor (35' of cable)
420LS	Wired Rain/Freeze Sensor (35' of cable)

Weathermatic™ LIGHTNING WARRANTY



420GLS
Rain Sensor

420LS
Rain/Freeze Sensor

"ProLine is the only controller we install, because of the price and because it's heads above any other controller. Homeowners and contractors love the advanced features, multimeter, and valve locator because they save so much time.

I carry one in my truck to troubleshoot customers' irrigation systems. I take their clock off, put the ProLine on, and it tells me what's wrong with their system rather than having to guess. Most of the time they buy the ProLine from me right there. It sells itself."

Rocky Hatch, Owner
Antelope Sprinkler Systems

SmartLine®

The Smart Irrigation Controller

SL1600
4-Zone base model:
Expandable to 16 zones
SL1620
20-Zone fixed zone count

9 1/8" W x 10 1/2" H x 4" D
23,2 cm x 25,7 cm x 10,2 cm

SLM4
4-Zone Module

SLM12-1600
12-Zone Module

SL800
4-Zone base model:
Expandable to 8 zones

7" W x 7 3/4" H x 1 3/4" D
17,8 cm x 19,7 cm x 4,4 cm

SLM2
2-Zone Module

BASIC FEATURES

- SmartLink® Aircard Compatible
- 4 programs: A, B, C; program D can operate concurrently
- 8 start times per program
- Indoor/Outdoor Rated
- Zone run times settable from 1 min. to 9 hrs. 55 min.
- Rain/Freeze sensing on/off button with Tri-Color LED indicator
- Rain delay of 1 – 7 days
- SLW5 Weather Station rain delay programmable from 0 – 99 hours
- Seasonal % adjust by program, by month
- Omit time of day window, day(s) of week, and up to 7 calendar dates
- Programmable zone-to-zone delay 1 min. – 3 hrs.
- Watering days: custom days of the week, odd/even, or interval days
- Run/Soak cycles by program
- Large backlit LCD display
- Non-volatile memory – with no battery required
- Internal 120VAC/230VAC transformer with pre-installed 6' line cord
- 2 Watering modes: Basic Mode and Smart Mode
- Basic Mode: User Controlled Conventional Operation
- Smart Mode: Daily automatic programming adjustments

Model	Input	Output	Fuse
SL1600	120VAC/60Hz @ 400 mA for 3 valves	28VAC, 1.0A maximum	1.0A, slow blow
SL4800	5 valve		1.5A, slow blow

SmartLine® Specifications				
Model	Description (Indoor/Outdoor)	Increase Zone Count	International Model	
SL800	4-Zone Base Model (Indoor)	SLM2 - 2 Zone / up to 8 Zones	E-SL800	230VAC/50Hz
SL1600	4-Zone Base Model	SLM4 - 4 Zone / up to 16 Zones SLM12-1600 - 12 Zone / up to 24 Zones	E-SL1600	
SL1620	20-Zone Fixed Zone Count	N/A	E-SL1620	
SL4800	12-Zone Base Model	SLM12-4800 - 12 Zone / up to 48 Zones	E-SL4800	

SmartLine®

The Smart Irrigation Controller

SMART WATERING FEATURES

- ZIP Code input or Latitude input
- Sprinkler type input
- Plant type input
- Soil type input
- More/Less ET Tuning
- Watering run times
- Review menu displays accumulated ET deficits by zone
- Display maximum run time and minimum soak time
- Displays temperature readings (daily high/low) for previous 5 days
- Accumulates total run times by zone from the last reset date
- Clear deficits for all zones
- Extended rain delay programmable from 0 – 99 hours

MANUAL OPERATION

- Manual test runs each zone with zone run times from 10 sec. – 10 min.
- Manual zone operation of a single zone (1 min. to 9 hrs. 55 min.)
- Push button manual start of a program from control panel

ON-SITE DIAGNOSTIC/TROUBLESHOOTING FEATURES

- Fault review displays all faults, including open and shorted zones
- Test function using on-board multi-meter
- Built-in valve locator
- Backtrack Stored Program™

ADDITIONAL FEATURES

- Zone-to-zone delay
- Master valve timing sequence with zone valve programmable
- Master valve/pump start operation assignable On/Off by zone
- Clear program function
- Clear All function
- Grow-In Program
- Includes power cord (SL1600, SL1620 only)
- Upgradable to SmartLink® Web-based Access

SL4800
12-Zone base model:
Expandable to 48 zones

15" W x 16½" H x 5 7/16" D
38,1 cm x 41,9 cm x 13,8 cm

SLM12-4800
12-Zone Module

SL4800PE-PED
Plastic Pedestal
12-Zone base model:
Expandable to 48 zones

18" W x 41" H x 16" D
45,7 cm x 104,2 cm x 45,2 cm

Plastic Enclosure Specifications

Model	Description	Increase Zone Count
SL4800PE-PED	High Grade Polyethylene Enclosure with the SmartLine® SL4800 12-Zone Controller (Base Model) Installed	SLM12 - 12 Zone Maximum of 48 Zones

SmartLink® COMPATIBLE

Weathermatic® LIGHTNING WARRANTY

SmartWire
2-Wire Decoder System

BASIC FEATURES

- SmartLink® Aircard compatible
- 4 independent programs - each program stacks or can operate simultaneously
- 8 start times per program
- Zone run times settable from 1 min. to 9 hrs. 55 min.
- Rain/Freeze sensing on/off button with Tri-Color LED indicator
- Rain delay of 1 – 7 days
- SLW5 Weather Station rain delay programmable from 0 – 99 hours
- Seasonal % adjust by program, by month
- Omit time of day window, day(s) of week, and up to 7 calendar dates
- Programmable zone-to-zone delay 1 min. – 3 hrs.
- Watering days: custom days of the week, odd/even, or interval days
- Run/Soak cycles by program
- Large backlit LCD display
- Non-volatile memory – with no battery required
- Internal 120VAC/230VAC transformer with pre-installed 6' line cord
- 2 Watering modes: Basic Mode and Smart Mode
- Basic Mode: User Controlled Conventional Operation
- Smart Mode: Daily automatic programming adjustments
- 5 user-selectable languages

SMART FEATURES

- ZIP Code input or Latitude input
- Sprinkler type input
- More/Less ET Tuning
- Review menu displays accumulated ET deficits by zone
- Displays maximum run time and minimum soak time
- Displays temperature readings (daily high/low) for previous 5 days
- Accumulates total run times by zone from the last reset date
- Clear deficits for all zones
- Extended rain delay programmable from 0 – 99 hours

SmartWire® 2-Wire Specification		
Model	Description	International Model
SL9648TW	SmartWire 48 - Zone 2-Wire Fixed Zone Count	E-SL9648TW
SL9696TW	SmartWire 96 - Zone 2-Wire Fixed Zone Count	E-SL9696TW

MANUAL OPERATION

- Manual test runs each zone with zone run times from 10 sec. – 10 min.
- Manual zone operation of a single zone (1 min. to 9 hrs. 55 min.)
- Push button manual start of a program from control panel

ON-SITE DIAGNOSTIC/TROUBLESHOOTING FEATURES

- Fault review displays all faults, including open and shorted zones
- Test function using on-board multi-meter
- Built-in valve locator
- Backtrack Stored Program™

ADDITIONAL FEATURES

- Zone-to-zone delay
- Two independently programmed master valves
- Normally open or normally closed master valve operation
- Master valve timing sequence with zone valve programmable
- Master valve/pump start operation assignable On/Off by zone
- Clear program function
- Clear All function
- Grow-In Program
- Flow sensor data review
- Upgradable to SmartLink® Web-based Access

SmartWire
2-Wire Decoder System

DECODER MODULE FEATURES

- Compatible with SmartLink®™
- Connections for up to 3 different 2-Wire paths for maximum installation flexibility
- LED display and status lights for programming, operation status, and troubleshooting with error codes
- Programs and operates SmartWire™ SLDEC Series decoders

SLDEC

SLGDT

SLCONN

SmartWire® 2-Wire Specification

Model	Description
SLDEC1	1 -Valve Decoder
SLDEC2	2 -Valve Decoder
SLDEC4	4 -Valve Decoder
SLGDT	Lightning Arrestor
SLCONN	SmartWire Splice Kit
SLCAM	SmartWire Clamp-On Amp Meter

DECODER FEATURES

- 1, 2, and 4 valve decoders available
- Decodes signals from Decoder Module to open and close valves
- Input voltage 24 – 28VAC from 2-Wire path
- Shock resistant
- Surge protection
- Fully programmable for valve addresses using Decoder Module
- Freeze/heat resistant (-20° to 60°C)
- 14 gauge PVC-coated connecting wires
- Sealed electrical components for protection from water and dirt
- Operates valves to a maximum of 100' (30m) from decoder
- Diagnoses and reports failed solenoids to the Decoder Module
- Auto shut-down if communication with Decoder Module is lost

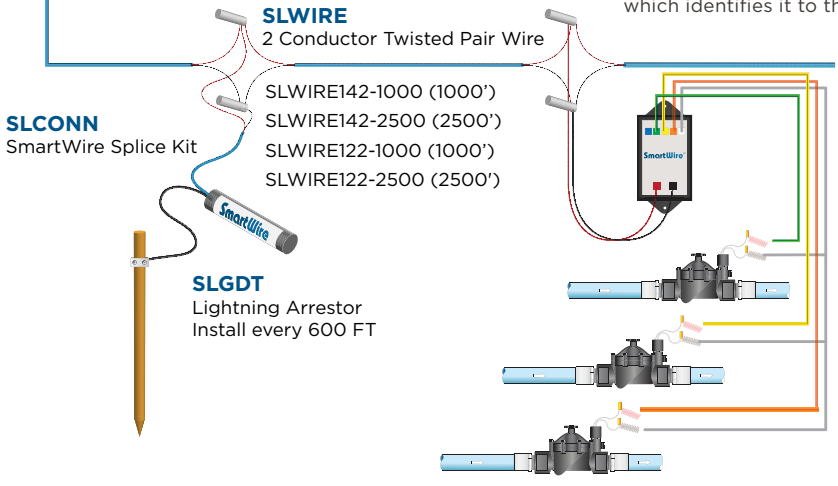
WARRANTY

- 3 Years - SmartWire when used with SLWIRE, SLCONN connectors
- 2 Years - SmartWire when used without SLWIRE

Wiring Sizes

Straight line configuration, i.e. wire distance to the furthest decoder, no loop:				
Wire Size (Gauge)	#18	#16	#14	#12
Wire Length (ft)	1,000	2,000	4,000	6,000
Wire Length (m)	305	610	1,210	1,829
Loop configuration, i.e. wire distance to the furthest decoder in the loop:				
Wire Size (Gauge)	#18	#16	#14	#12
Wire Length (ft)	2,000	4,000	10,000	10,000
Wire Length (m)	610	1,210	3,048	3,048
Maximum total wire path length is 10,000 ft. (3,048 m).				

SL9600TW



HOW IT WORKS

A SmartWire SLDEC valve decoder is wired to each valve. Each decoder has a programmable address (typically the zone number), which identifies it to the SmartWire SL9600TW controller.

SLDEC
Valve Decoder

The SL9600TW 2-Wire decoder module broadcasts a command to activate a certain address or zone. All decoders on a 2-Wire path "decode" the message, but only the appropriate decoder responds and turns the attached valve on or off. The decoder reports back to the decoder module with a status message of positive operation or an error code.

SLW5

SLW5
Wireless Weather Station

SLHUB-RF-5
Wireless Receiver
(included)

SLW5 Weather Station Specification	
Model	**Description**
SLW5	Wireless Weather Station for ET Based Watering * 900mhz - 1500' Line of site range

Weathermatic LIGHTNING WARRANTY

FEATURES

- Microprocessor records and processes weather data for use in establishing "Smart" Auto Adjust run times on any SmartLine® controller
- Rain shut-off settable from 1⁄8 – 1" (3 – 25mm)
- Extended rain delay adds time to rain events before deficits begin to accumulate
- Rain events decrement current deficits in the SmartLine® controller
- Freeze shut-off activated at 37°F (3.0°C)
- Protective white solar shields allow normal air flow while protecting sensor from direct sunlight for accurate temperature readings and eliminating the need for regular cleaning and maintenance of the weather station
- Unit can be mounted in sunlight or shade and in close proximity to the roof-line
- Maximum wireless distance from controller to weather station is 1500' (457m) line of site. SLHUB-RF-5 wireless hub included with SLW5
- On-board diagnostics indicate battery and communication status
- Remote battery strength measurement from the SmartLine® controller
- 10-Year battery life
- Adjustable arm plastic bracket for gutter thumb-screw or wall mount
- Operates on 900MHz frequency for superior range and reliability

SLW1

SLW1
Wired Weather Station

Weathermatic LIGHTNING WARRANTY

SLW1 Weather Station Specification	
Model	**Description**
SLW1	Wired Weather Station for ET Based Watering * 35ft of cable provided

FEATURES

- Microprocessor records and processes weather data for use in establishing "Smart" Auto Adjust run times on any SmartLine® controller
- Rain shut-off settable from 1⁄8 – 1" (3 – 25mm)
- Extended rain delay adds time to rain events before deficits begin to accumulate
- Rain events decrement current deficits in the SmartLine® controller
- Freeze shut-off activated at 37°F (3.0°C)
- Protective white solar shields allow normal air flow while protecting sensor from direct sunlight for accurate temperature readings and eliminating the need for regular cleaning and maintenance of the weather station
- Unit can be mounted in sunlight or shade and in close proximity to the roof-line
- On-board diagnostics indicate battery and communication status
- Remote battery strength measurement from the SmartLine® controller
- Adjustable arm plastic bracket for gutter thumb-screw or wall mount
- Wired directly to the SmartLine® controller via the 35 feet of included cable

MORE POWERFUL, MORE AFFORDABLE, MORE EFFICIENT. IT'S JUST SMARTER.

Our diehard fans love that the SmartLine® feature set exceeds that of most high-end controllers, yet was engineered to make ET-based water management affordable for any size project. Our WaterSense-labeled SmartLine® controller and weather station bundle is independently certified to be 20% more water efficient than similar products on the market. Over 350,000 SmartLine® controllers installed world-wide are saving millions of gallons of water every year.

WaterSense Meets EPA Criteria
Certified by ICC-ES

SL800 with Weather Station

SL800 Controller with SLW1

SL800 Controller with SLW5

Model	Description
SL804-SLW1	SL800, 4 zones, with SLW1 Wired Weather Station
SL806-SLW1	SL800, 6 zones, with SLW1 Wired Weather Station
SL808-SLW1	SL800, 8 zones, with SLW1 Wired Weather Station
SL804-SLW5	SL800, 4 zones, with SLW5 Wireless Weather Station
SL806-SLW5	SL800, 6 zones, with SLW5 Wireless Weather Station
SL808-SLW5	SL800, 8 zones, with SLW5 Wireless Weather Station

SL4800 with Weather Station

SL4800 Controller with SLW1

SL4800 Controller with SLW5

Model	Description
SL4812-SLW1	SL4800, 12 zones, with SLW1 Wired Weather Station
SL4824-SLW1	SL4800, 24 zones, with SLW1 Wired Weather Station
SL4836-SLW1	SL4800, 36 zones, with SLW1 Wired Weather Station
SL4848-SLW1	SL4800, 48 zones, with SLW1 Wired Weather Station
SL4812-SLW5	SL4800, 12 zones, with SLW5 Wireless Weather Station
SL4824-SLW5	SL4800, 24 zones, with SLW5 Wireless Weather Station
SL4836-SLW5	SL4800, 36 zones, with SLW5 Wireless Weather Station
SL4848-SLW5	SL4800, 48 zones, with SLW5 Wireless Weather Station

SL1600 Series with Weather Station

SL1600/SL1620/SL1624 Controller with SLW1

SL1600/SL1620/SL1624 Controller with SLW5

Model	Description
SL1604-SLW1	SL1600, 4 zones, with SLW1 Wired Weather Station
SL1608-SLW1	SL1600, 8 zones, with SLW1 Wired Weather Station
SL1612-SLW1	SL1600, 12 zones, with SLW1 Wired Weather Station
SL1616-SLW1	SL1600, 16 zones, with SLW1 Wired Weather Station
SL1620-SLW1	SL1620, 20 zones, with SLW1 Wired Weather Station
SL1624-SLW1	SL1624, 24 zones, with SLW1 Wired Weather Station
SL1604-SLW5	SL1600, 4 zones, with SLW5 Wireless Weather Station
SL1608-SLW5	SL1600, 8 zones, with SLW5 Wireless Weather Station
SL1612-SLW5	SL1600, 12 zones, with SLW5 Wireless Weather Station
SL1616-SLW5	SL1600, 16 zones, with SLW5 Wireless Weather Station
SL1620-SLW5	SL1620, 20 zones, with SLW5 Wireless Weather Station
SL1624-SLW5	SL1624, 24 zones, with SLW5 Wireless Weather Station

SL9600 with Weather Station

SL9600 Controller with SLW5

Model	Description
SL9648TW-SLW1	SL9648TW, 48 Zones, with SLW1 Wired Weather Station
SL9648TW-SLW5	SL9648TW, 48 Zones, with SLW5 Wireless Weather Station
SL9696TW-SLW1	SL9696TW, 96 Zones, with SLW1 Wired Weather Station
SL9696TW-SLW5	SL9696TW, 96 Zones, with SLW5 Wireless Weather Station

Enclosures

SLPED-ENC

- Fits all SL1600 Series, SL4800 and SL9600TW controllers
- 16 gauge stainless steel construction with brushed finish
- Pedestal mount model
- Filtered louvers for ventilation
- Cam style keylock
- Weather-resistant
- NEMA TYPE 3R rated with SmartLine® controller installed

SLPED-ENC-M/SS-1600
13 ¼" W x 44 ¼" H x 6 ¼" D
(33,66 cm x 112,40 cm x 15,88 cm)

SLPED-ENC-M/SS-4800
19 ½" W x 44 ¼ H x 7 ¾" D
(49,53 cm x 112,40 cm x 19,69 cm)

SLPED-ENC-SS

4800 1600

SLPED-ENC-M

4800 1600

SmartLine® Enclosures Specification	
Model	**Description**
SLPED-ENC-SS-4800	Stainless Steel Enclosure with Pedestal for PL4800/SL4800/SL9600TW
SLPED-ENC-M-4800	Powder-coated Metal Enclosure with Pedestal for Stainless Steel Enclosure with Pedestal for PL4800/SL4800/SL9600TW
SLPED-ENC-SS-1600	Stainless Steel Enclosure with Pedestal for PL1600/SL1600
SLPED-ENC-M-1600	Powder-coated Metal Enclosure with Pedestal for PL1600/SL1600

SLWM

- Fits all SL1600 Series, SL4800 and SL9600TW controllers
- 16 gauge stainless steel construction with brushed finish
- Wall mount model
- Cam style keylock
- Weather-resistant
- NEMA TYPE 3R rated with SmartLine® controller installed

SLWM-M/SS-1600
13 ¼" W x 14 ¼" H x 6 ¼" D
(33,66 cm x 36,20 cm x 15,88 cm)

SLWM-M/SS-4800
19 ½" W x 19 ½" H x 7 ¾" D
(49,53 cm x 49,53 cm x 19,69 cm)

SLPED

- Fits all SL1600 Series, SL4800 and SL9600TW controllers
- 16 gauge stainless steel construction with brushed finish
- Pedestal mount model
- Cam style keylock
- Weather-resistant
- NEMA TYPE 3R rated with SmartLine® controller installed

SLPED-1600/4800
10 ½" W x 25" H x 3 ½" D
(26,67 cm x 63,50 cm x 8,89 cm)

SLPED-1600

SLWM-SS-4800

SLWM-SS-1600

SLWM-M-4800

SLWM-M-1600

SmartLine® Enclosures Specification	
Model	**Description**
SLWM-SS-4800	Stainless Steel Wall Mount Cabinet for PL4800/SL4800/SL9600TW
SLWM-M-4800	Powder-coated Metal Wall Mount Cabinet for PL4800/SL4800/SL9600TW
SLWM-SS-1600	Stainless Steel Wall Mount Cabinet for PL1600/SL1600
SLWM-M-1600	Metal Wall Mount Enclosure for SL1600
SLPED-1600	Stainless Steel Pedestal for the SL1600/1620
SLPED-4800	Stainless Steel Pedestal for the SL4800/SL9600TW

SmartLine® SOLAR

Water, Power, and Wire Savings

The SmartLine® Solar irrigation control system features the industry's first hybrid solar to AC power supply, allowing the SmartLine® weather based irrigation control system to operate in locations with no power. SmartLine® Solar uses proven SmartLine® controllers and industry standard 24VAC valves for greatly enhanced operational life and reduced equipment cost.

FEATURES

- SmartLink® Aircard compatible
- Converts SmartLine® to a totally "portable" water management system by using proven solar technology
- SmartLine® is a SWAT tested ET system
- Green power source using 100% renewable energy
- Easy installation for both Conventional and 2-Wire systems
- SmartLine® Solar uses industry standard 24VAC valves, which out perform debris-prone latching solenoids required with battery operated systems
- System Diagnostics include Volt meter, Amp meter and Valve Locator
- 2-Wire SmartWire compatible
- LCD display indicates battery and solar power condition
- Dual deep cycle batteries provide up to 7 days of operation with no solar charge
- State of the art Solar Charge Technology (SCT) prolongs battery life and protects batteries from over charge and assures a full charge
- Using standard AC power components makes for easy conversion from solar to grid power and allows early stage construction of landscape in new construction projects

SmartLink® COMPATIBLE

SLSOLAR48

SmartLine® Solar Specifications	
Model	**Description**
SLSOLAR48	SmartLine® Solar System, 48 Zones
SLSOLAR48TW	SmartLine® Solar System, 48 Zones 2-Wire
SLSOLAR96TW	SmartLine® Solar System, 96 Zones 2-Wire

SmartLine®

The Smart Irrigation Controller

SmartLine® SL4800CHARGE is the industry's first battery-powered, cloud-based smart irrigation controller. SL4800CHARGE has the same rich, user-friendly features as the market leading SmartLine® controller, but when power is lost the SL4800CHARGE continues to work. It seamlessly switches between AC power mode and Battery power mode. SL4800CHARGE can take advantage of electricity when available through battery storage and automatically switch to battery backup when power is lost. This solution saves thousands of dollars otherwise required to run dedicated power for irrigation by taking advantage of the existing power supply on timers for lights and other temporarily powered devices, without sacrificing the intelligence of weather based scheduling and cloud connectivity.

FEATURES

- SmartLink® Aircard compatible
- Solves temporary power supply issues in median applications for HOAs and cities, school districts and DOT irrigation systems
- 7 days of reserve power for service or anytime watering requirements
- On-site diagnostics on power system
- 10-year battery life
- On-site ET wireless weather station
- Cloud based operation
- Email alerts for system issues: no power, shorted wires and programming issues
- Automatic Daylight Savings Time
- 10-year calendar for compliance
- Omit times, days, and dates for water restrictions
- Non-volatile memory
- No controller panel battery required for program memory
- 2-year warranty including lighting coverage

SmartLine® Solar Specifications	
Model	Description
SL4800CHARGE	Battery Powered 48 Zone Controller with Built-In Charge System

COMING 2018!

SmartLink® Residential

SAVE WATER, TIME AND MONEY AS YOU BEAUTIFY YOUR LANDSCAPE WITH THE SMARTLINK® NETWORK

Imagine having immediate access to every element of your irrigation system. With the SmartLink® Wireless Landscape Network, you and your landscape professional have unprecedented control over your system.

PL800-RESI-BUNDLE
PL1600-RESI-BUNDLE

SL800-RESI-BUNDLE
SL1600-RESI-BUNDLE

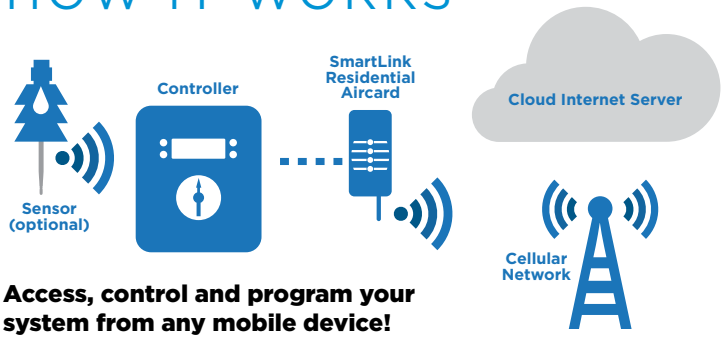
Maximimum Control
- Access from any smart phone or tablet using FREE mobile app and simple dial-based controller*
- Amazon Echo voice command compatible
- Receive email alerts of key events
- Add zone photos for visual verification

Superior Security & Range
- No home Wi-Fi or router access required
- Safe and reliable cellular network signal
- Ultimate remote control for yards and gardens
- Diagnostics onboard: multimeter and valve locator included

Automated Scheduling & Tracking
- Adjusts irrigation schedule daily (SmartLine®) or monthly (ProLine)
- Run and soak cycles prevent runoff
- Multiple program and start time flexibility

Plug & Play Set up
- Install and activate online in minutes
- Equipment bundles include:
  - ProLine controller, or SmartLine® controller with SLW5 wireless weather station (additional modules sold separately)
  - SmartLink® Residential Aircard
- No cost annual service plan renewal (2 users included)**

HOW IT WORKS



Access, control and program your system from any mobile device!

amazon alexa ENABLED

Available on the iPhone App Store

GET IT ON Google play

* Remote access to controller requires smart phone or tablet capable of operating the mobile SmartLink® app. PC or web based access is not supported.

Model	Description
PL800-RESI-BUNDLE	PL800 & SmartLink® Residential Aircard Bundle with 4 Zones (indoor)
PL1600-RESI-BUNDLE	PL1600 & SmartLink® Residential Aircard Bundle with 4 Zones
SL800-RESI-BUNDLE	SL800 & SmartLink® Residential Aircard Bundle with 4 Zones (indoor), and SLW5 included
SL1600-RESI-BUNDLE	SL1600 & SmartLink® Residential Aircard Bundle with 4 Zones, and SLW5 included

Modules (Optional)	
SLM2	2-Zone Module for PL800/SL800
SLM4	4-Zone Module for PL1600/SL1600
SLM2	2-Zone Module for PL800/SL800
SLM4	4-Zone Module for PL1600/SL1600

Weather Sensors (Optional)	
RFS5	Wireless Rain/ Freeze Sensor
RFS1	Wired Rain/ Freeze Sensor

** User must renew no cost service plan annually to continue receiving free mobile app access

SmartLink®
Wireless Landscape Network

AIRCARDS

FEATURES

- Connects the SmartLine® or ProLine® controller to the SmartLink®™ web application
- Provides Web-Based control from a computer, tablet, or smartphone
- Simple to install
- Set-up in minutes
- Automatic firmware updates
- Status LED
- Gold plated antenna connection
- Cellular-Based communication
- Indoor/Outdoor use

FLOW AIRCARD FEATURES

- Adds Flow capabilities
- Flow Sensor connects directly to unit and not the SmartLine® controller

Aircard for Cellular Network

Model	Description
SL-AIRCARD-ATT	SmartLink® Aircard for ATT Cellular Network
SL-AIRCARDFLOW-ATT	SmartLink® Aircard with Flow for ATT Cellular Network
SL-AIRCARD-ATT-EXT	SmartLink® Aircard for ATT Cellular Network with 50ft Extension
SL-AIRCARDFLOW-ATT-EXT	SmartLink® Aircard with Flow for ATT Cellular Network with 50ft Extension

Annual Aircard Plans

Model	Description
SL-PLAN1	SmartLine® 1-Year Service Plan
SL-PLAN1W	SmartLine® 1-Year Service Plan with Warranty
SL-PLAN1F	SmartLine® 1-Year Service Plan plus Flow
SL-PLAN1FW	SmartLine® 1-Year Service Plan plus Flow with Warranty
SL-WARRANTY1	SmartLine® 1-Year Warranty only upgrade
SL-FLOW1	SmartLine® 1-Year Flow only upgrade
SL-WARRANTY1F	SmartLine® 1-Year Warranty plus Flow only upgrade

Aircard with SmartLine® 1 Year Service Plan

Model	Description
SL-AIRCARD1-ATT	SmartLink® Aircard with SmartLine® 1-Year Service Plan for ATT Cellular Network
SL-AIRCARD1W-ATT	SmartLink® Aircard with SmartLine® 1-Year Service Plan plus Warranty for ATT Cellular Network
SL-AIRCARDFLOW1F-ATT	SmartLink® Aircard with SmartLine® 1-Year Service Plan with Flow for ATT Cellular Network
SL-AIRCARDFLOW1FW-ATT	SmartLink® Aircard with SmartLine® 1-Year Service Plan with Flow plus Warranty for ATT Cellular Network
SL-AIRCARD1-ATT-EXT	SmartLink® Aircard with SmartLine® 1-Year Service Plan for ATT Cellular Network with 50ft Extension
SL-AIRCARD1W-ATT-EXT	SmartLink® Aircard with SmartLine® 1-Year Service Plan plus Warranty for ATT Cellular Network with 50ft Extension
SL-AIRCARDFLOW1F-ATT-EXT	SmartLink® Aircard with SmartLine® 1-Year Service Plan with Flow for ATT Cellular Network with 50ft Extension
SL-AIRCARDFLOW1FW-ATT-EXT	SmartLink® Aircard with SmartLine® 1-Year Service Plan with Flow plus Warranty for ATT Cellular Network with 50ft Extension

International Aircards and Plans

Model	Description
E-SL-AIRCARD	SmartLink® Aircard for Export
E-SL-AIRCARDFLOW	SmartLink® Aircard for Export with Flow
E-SL-AIRCARD1	SmartLink® Aircard for Export with SmartLine® 1-Year Service Plan
E-SL-AIRCARD1F	SmartLink® Aircard for Export with Flow with SmartLine® 1-Year Service Plan

ANTENNAS

OMNI 3DBI GAIN ANTENNA

SL-HIGHGAIN-ANT
Omni 3dBi Gain Antenna

FEATURES

- Ideal for industrial or other heavy duty applications
- Peak gain is 3 dBi gain
- Rugged Stud mount uses 5/8" hole (16 mm)
- Flexible seal provides watertight use
- Includes 3 foot or 20 foot cable
- Includes Ground Plane with 20 foot cable (Optional for 3 foot cable)
- Peak Gain: 3 dBi @ 824-960 MHz
- Case Material: ASA plastic, UV Resistant
- Dimensions: 1.7" diameter x 3" high (43 mm x 76 mm)

Omni 3dBi Gain Antenna Specification	
Model	**Description**
SL-HIGHGAIN-ANT-WB-3	3dBi Gain Antenna with 3 foot cable and ground plane
SL-HIGHGAIN-ANT-WOB-3	3dBi Gain Antenna with 3 foot cable
SL-HIGHGAIN-ANT-WB-20	3dBi Gain Antenna with 20 foot cable and ground plane

BLADE 3DBI GAIN ANTENNA

FEATURES

- Mounts directly on SmartLink® Aircard
- Peak gain is 3 dBi gain
- Sleek profile with straight operation
- Compact design, ground plane independent with high performance
- Peak Gain: 3 dBi @ 824-894 MHz
- Dimensions: 7.75" high (20 cm)

SL-BLADE-ANTENNA
Blade 3dBi Gain Antenna

Blade 3dBi Gain Antenna Specification	
Model	**Description**
SL-BLADE-ANTENNA	Halfwave cellular dual band antenna

STANDARD ANTENNA

- Standard no gain antenna included with SmartLink® Aircard
- Omni directional
- Mounts directly on SmartLink® Aircard
- Suitable for most SmartLink® Aircard locations

SL-ANT
Aircard Standard Antenna

Standard Antenna Specification	
Model	**Description**
SL-ANT	SmartLink® Aircard Standard Antenna

SL-CABINET

- Weatherproof cabinet for mounting and wiring of SmartLink® Aircards and accessories.
- Dimensions: 9 1⁄8" W x 10 1⁄2" H x 4" D 23,2 cm x 25,7 cm x 10,2 cm

SL-CABINET
Weatherproof Mounting Cabinet

SmartLink®
Wireless Landscape Network

BUNDLES

Our custom SmartLink® Bundles makes it easy to find a solution to fit your job. Use the simple to follow chart below to build your bundle. Simply choose a bundle (SmartLine® controller, SLW5 weather station and aircard) to fit the size of your property and add a service plan. Adding the optional flow capability provides even more control over the irrigation system.

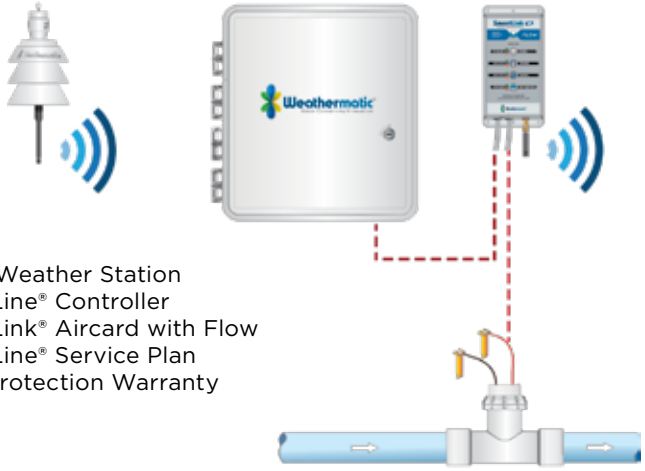
WaterSense Meets EPA Criteria
Certified by ICC-ES

NOW AVAILABLE
NO ANNUAL FEE
SEE UNLMITED BUNDLE BELOW

SMARTLINK® BUNDLE

SLW5 Weather Station
SmartLine® Controller
SmartLink® Aircard
SmartLine® Service Plan
Total Protection Warranty

SMARTLINK® BUNDLE WITH FLOW



SLW5 Weather Station
SmartLine® Controller
SmartLink® Aircard with Flow
SmartLine® Service Plan
Total Protection Warranty

1 Choose a SmartLne Controller.

Model	Description
SL1616-	16 Zone Controller
SL4824-	24 Zone Controller
SL4848-	48 Zone Controller
SL9648TW-	48 Zone Two-Wire Controller
SL9696TW-	96 Zone Two-Wire Controller
SLSOLAR48-	48 Zone Solar Controller
SLSOLAR48TW-	48 Zone Solar Two-Wire Controller
SLSOLAR96TW-	96 Zone Solar Two-Wire Controller

2 Add a service plan.

Model	Description
1YR-BUNDLE	1 Year Service Plan
3YR-BUNDLE	3 Year Service Plan
5YR-BUNDLE	5 Year Service Plan
10YR-BUNDLE	10 Year Service Plan
UNL-BUNDLE	Unlimited Service Plan*

3 Add a optional fow.

Model	Description
-FLOW	Aircard with Flow

Examples

Model	Description
SL1616-1YR-BUNDLE-FLOW	SL1616 1 Year Bundle with Flow with 16 Zones
SL4848-3YR-BUNDLE	SL4848 3 Year Bundle with 48 Zones
SL9696TW-5YR-BUNDLE-FLOW	SL9696TW 5 Year SmartWire Bundle with Flow with 96 Zones
SLSOLAR48TW-1YR-BUNDLE	SmartLine® Solar SmartWire System - 48 Zones, 1 Yr Bundle

* SmartLink Unlimited bundle includes free annual SmartLink service plan renewal for the life of the SmartLink equipment. User may be required to update equipment every 5 years to ensure customer's systems are compatible with future technologies and feature enhancements.

SLFSI-T
PVC Tee - Flow Sensor

SLFSI-S
Saddle Tee - Flow Sensor

PROFESSIONAL MATERIALS
- Impeller – HDPE (High Density Polyethylene)
- Shaft – Tungsten Carbide
- O-ring — Buna-N
- Saddle, Sensor Housing, Retaining Nut — Type 1 PVC

PRESSURE RATING
- 150 PSI @ 90º F

TEMPERATURE RANGE
- 32º F to 140º F (0º to 60º C)

OUTPUT SIGNAL
- Frequency Range: 0.3 Hz to 200 Hz
- Output Pulse: 5 ms +/-25%

TRANSDUCER PERFORMANCE
- Quiescent current: 600 uA@8 VDC to 35 VDC max.
- Quiescent voltage: (VHigh)= Supply Voltage - (600uA X Supply Impedance)
- On State: (VLow)= Max. 1.2 VDC@50mA current limit, (10Ω +0.7VDC)

FLOW RANGE
0.25 to 12 FPS

1″ saddle: 0.86 to 52 GPM
1 ½″ saddle: 1.8 to 108 GPM
2″ saddle: 2.8 to 170 GPM
3″ saddle: 6 to 300 GPM
4″ saddle: 10 to 480 GPM

ELECTRICAL CABLE
- 2 single conductor solid copper U.L. listed #18 AWG leads with direct burial insulation
- Lead length: 48 inches
- Wiring may be extended up to 2,000 feet with direct burial, twisted pair shielded cable

Flow Sensor Specifications		International Model
Model	Description	
SLFSI-T10	1″ Tee Type Insert Flow Sensor - Used with the SmartLink® Flow Aircard	E-SLFSI-T10
SLFSI-T15	1 ½″ Tee Type Insert Flow Sensor - Used with the SmartLink® Flow Aircard	E-SLFSI-T15
SLFSI-T20	2″ Tee Type Insert Flow Sensor - Used with the SmartLink® Flow Aircard	E-SLFSI-T20
SLFSI-S30	3″ Saddle Type Insert Flow Sensor - Used with the SmartLink® Flow Aircard	SLFSI-S30
SLFSI-S40	4″ Saddle Type Insert Flow Sensor - Used with the SmartLink® Flow Aircard	SLFSI-S40

SmartLink®
Wireless Landscape Network

PROFESSIONAL MATERIALS

- Impeller – HDPE (High Density Polyethylene)
- Mounting Tee & Retaining Nut - Lead Free Bronze Alloy C89833 Federalloy I-836
- Shaft – Tungsten Carbide
- O-ring — Buna-N
- Sensor Insert - Type 1 PVC

PRESSURE RATING

- 250 PSI Maximum working pressure

TRANSDUCER PERFORMANCE

- Quiescent current: 120 uA@8 VDC to 35 VDC max.
- Off State: (VHigh)= Supply Voltage - (120uA X Source Resistance)
- On State: (VLow)= Max. 0.85 Volts@50mA, (10Ω +0.7VDC)

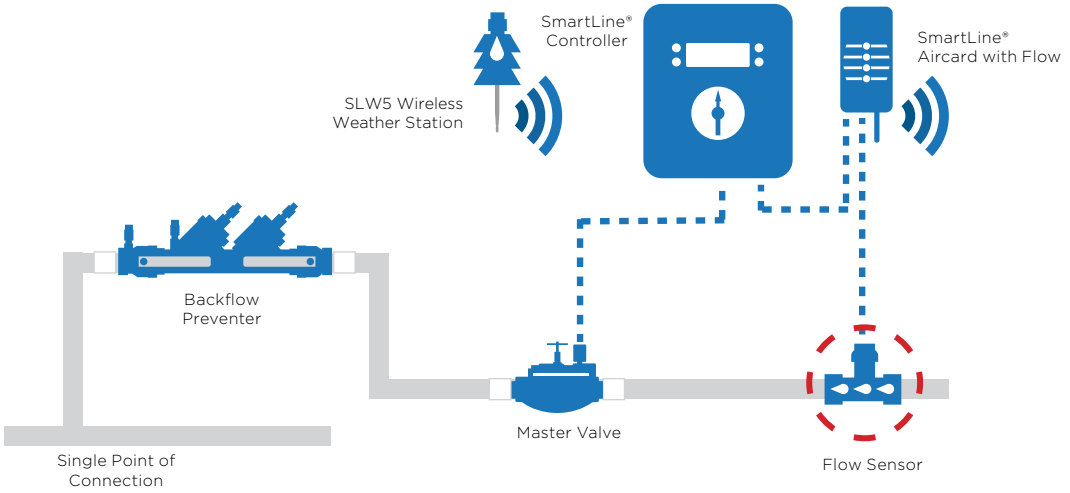
FLOW RANGE

- 0.50 to 15 FPS
- 3 to 90 GPM (11 to 340 LPM)

SLFSI-B
Brass Tee -
Flow Sensor

Flow Sensor Specification	
Model	**Description**
SLFSI-B15	1 ½" Brass Tee Type Insert Flow Sensor - Used with the SmartLink® Flow Aircard

FLOW SENSOR PLACEMENT



SmartLink®™ Flow Sensor Model Nominal Pipe Size		SLFSI-T10 1"	SLFSI-T15 1½"	SLFSI-T20 2"	SLFSI-S30 3"	SLFSI-S40 4"	SLFSI-B15 1½"
	Feet/Sec	GPM	GPM	GPM	GPM	GPM	GPM
Minimum Flow	0.25	0.86	1.8	2.8	6	10	
	1	3.5	7.24	11.3	25	40	5.5
	2	7	14.5	23	50	80	11
	3	10.4	22	34	75	120	16.5
	5	17	36	57	125	200	27.5
	7	24	51	79	175	280	38.5
	10	35	72	113	250	400	55
	12	42	87	136	300	480	66
Maximum Flow	15	52	108	170			83
Friction Loss at Max Flow		0.25 psi	0.18 psi	0.15 psi	0.15 psi	0.15 psi	0.18 psi

SLFA FLOW ASSEMBLIES

FEATURES

- Pre-sized with manufacturers required pipe length
- Includes master valve, flow sensor, schedule 80 pipe length and flanges and gasket/bolt kits
- Avoid errors in flow run pipe length size and fitting assembly
- Ready to glue and install

SLFA-T10-MAX

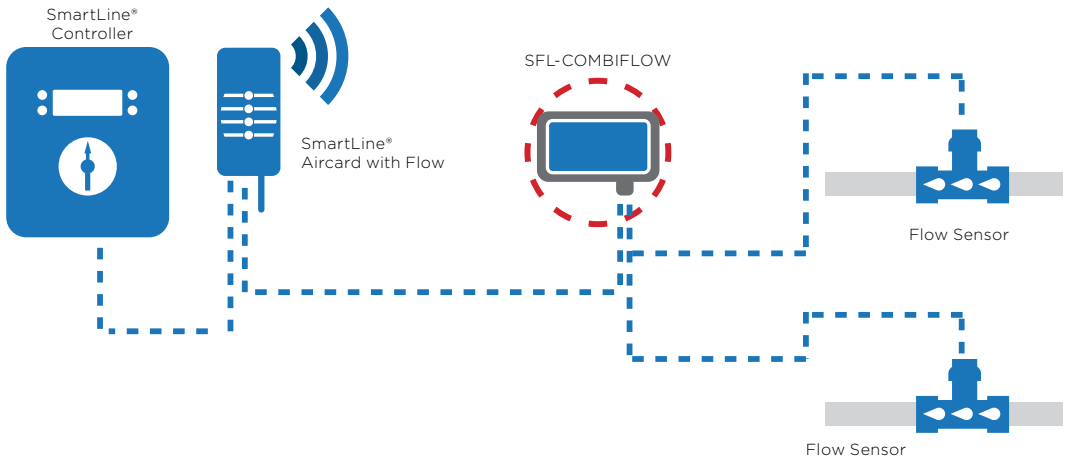
Flow Sensor with Max Valve Specifications	
Model	**Description**
SLFA-T10-MAX	1" Flanged Flow Assembly with MAX-DW-10 Master Valve and SLFA-T10 Flow Sensor
SLFA-T15-MAX	1 ½" Flanged Flow Assembly with MAX-DW-15 Master Valve and SLFA-T15 Flow Sensor
SLFA-T20-MAX	2" Flanged Flow Assembly with MAX-DW-20 Master Valve and SLFA-T20 Flow Sensor

CombiFlow

The **SLF-COMBIFLOW** is a unique signal controlled device that conditions and scales the signals from two digital flow sensors and combines them into one scalable digital output. The SmartLink®™ Flow Aircard then perceives the signal is coming from a single flow sensor. It is compatible with the SLFSI Series Flow Sensors and most other sensors producing a square or sine wave output proportional to the rate of flow.

SLF-COMBIFLOW

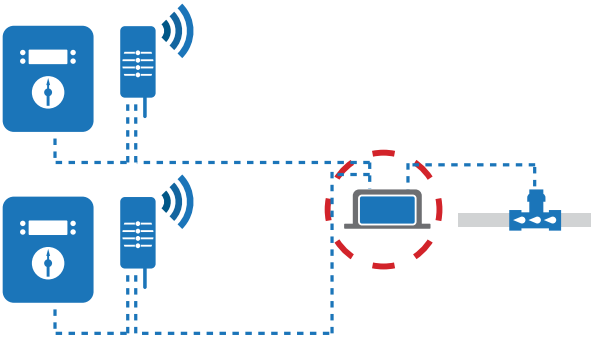
SmartLink®™ Flow Accessories	
Model	**Description**
SLF-COMBIFLOW-100	Combines 2 separate flow Sensor's data to be used by 1 SmartLink® Flow Aircard



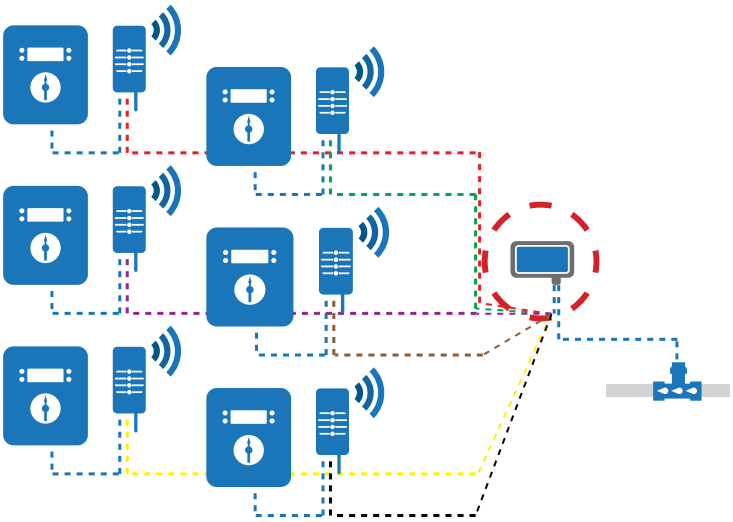
IsoFlow

The **SLF-ISOFLOW-300** and **SLF-ISOFLOW-306** are signal control devices that receive the signal from a single SLFSI flow sensor and provide two electrically isolated outputs. These outputs can then separately be connected to 2 - 6 SmartLink®™ Flow Aircards.

The **SLF-ISOFLOW-306** enables up to 6 SmartLine®/SmartLink®™ Flow Aircard to share a single SLFSI flow sensor.



SLF-ISOFLOW-300



SLF-ISOFLOW-306

SmartLink®™ Flow Accessories	
Model	**Description**
SLF-ISOFLOW-300	Enables 2 SmartLink® Flow Aircards to share 1 SLFSI Flow Sensor
SLF-ISOFLOW-306	Enables 3 to 6 SmartLink® Flow Aircards to share 1 SLFSI Flow Sensor

SmartLink®™ Flow Accessories	
Model	**Description**
SLF-SIMFLOW	Flow Simulator with 36" Leads
SLF-DISPLAYFLOW	Digital Display Totalizer Inhousing
SLF-PCT-120	Hydrometer Pulse Converter
SLFLOW-WIRE-193-1000	19 Gauge, 3 wires, 1000 ft

SLF-SIMFLOW

SLF-DISPLAYFLOW

WireRide

SLF-WIRERIDE
Controller Module

SLF-WIRERIDE
Field Module

SmartLink®™ Flow Accessories	
Model	**Description**
SLF-WIRERIDE	Add SLFSI Flow Sensor and a Master Valve Without Running New Wire to the Controller
SLF-WIRERIDE-HYD	Hydrometer Communication on Existing Wire
PCT-120	Hydrometer Pulse Converter

The **SLF-WIRERIDE** enables installation of a new Master Valve and Flow Sensor (or Hydrometer) on an irrigation system, without the need of running new wire back to the irrigation controller. With WireRide, the new Master Valve and Flow Sensor (or Hydrometer) essentially "hitch a ride" back to the controller using a nearby preexisting zone wire.

HOW IT WORKS

The WireRide Controller Module mounts near the SmartLine® controller. It routes the Master Valve, Flow Sensor (or Hydrometer), and the nearby Zone Valve to their corresponding location in the SmartLine® controller and to the SmartLink® Flow Aircard.

A simple walk-through of the example below:

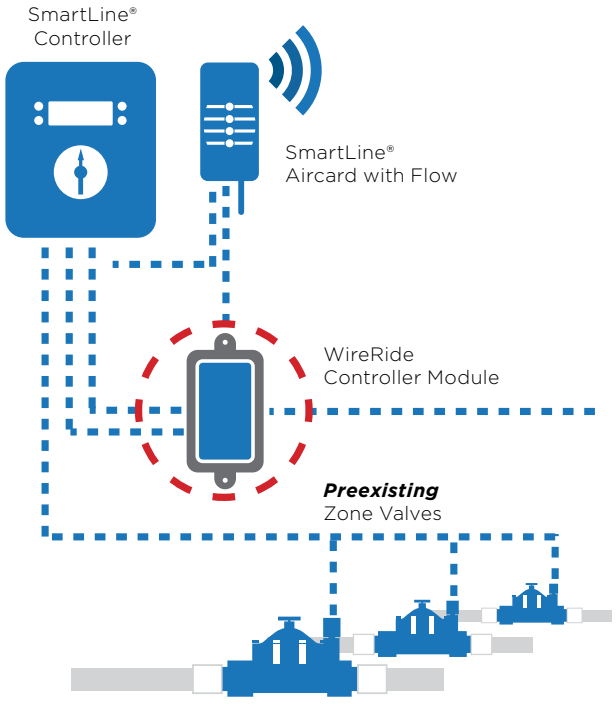
Install the new Master Valve and Flow Sensor (or Hydrometer)

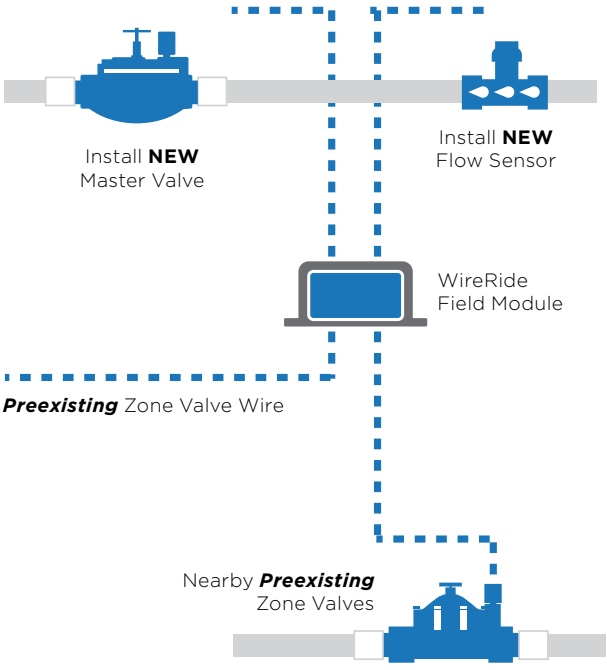
Locate a nearby preexisting Zone Valve

Connect the Zone valve, new Master and Flow Sensor (or Hydrometer) to the WireRide Field Module.

The existing Zone Valve wire is now being used by the Field Module to connect to the Controller Module.

The Controller Module mounts next to the SmartLine® controller and routes power and flow signals to the appropriate devices.





CUSTOMERPROFILE

SmartLink® VS. CENTRAL CONTROL

FED UP WITH TRADITIONAL LIMITATIONS, CITY TURNS TO NEW TECHNOLOGY

Customer:

City of Mesquite Parks & Recreation Department

Location:

Mesquite, Texas

Manages:

100+ sports fields, 1,600 acres of parkland, 72 miles of medians and right-of-ways

What they say:

"From a budgetary standpoint, a manpower standpoint: SmartLink® is central control you have access to all the time. It's like having an irrigation tech on that site, 24 hours a day...The benefits are unbelievable. Once you've tried it and...you've run the controllers from your phone, you'll be sold. The amount of money and manpower you'll save is just unbelievable."

CHALLENGE

- Large variety of irrigation needs
- Central Control system was working well but difficult to learn and install, labor intensive, not portable
- Central Control was expensive to purchase and maintain, plus constant concerns about lightning damage

SOLUTION

- Connected SmartLink® Wireless Network to the city's 25 existing SmartLine® controllers with complete install and programming done in under 2 hours
- Install and setup was simple and quick, no learning curve
- Parks Manager could operate entire system from his smart phone

RESULTS

- City saves thousands on labor, repairs, travel, with 24/7 mobile access
- SmartLink® system withstands lightning storms, provides valuable and timely reports

NITRO
N-100 SERIES

FEATURES

- 100% water tested
- 150 PSI (10,3 BAR) rating
- Unique “reverse flow” design permits equal pressure distribution on both sides of the diaphragm, regardless of line pressure, providing zero stress to prevent “stretching,” a common cause of valve failure
- Reverse flow design for water conservation in the event of failure
- Diaphragm’s self cleaning ports constantly flex, inhibiting sand and silt from blocking valve action
- Molded shock cone for smooth operation and reduction of water hammer
- Easy-to-use internal manual bleed lever; bleeds valve downstream; has positive stops for open and closed positions
- Marine-grade S20P solenoid with stainless steel actuator
- Engineering grade PVC body and Phillips retaining screws
- Non-rising flow control stem throttles valve from full open to closed position on flow control models


N-100-H


N-100F-H


N-100S-H


N-100SF-H


N-100MB-H


N-100MBF-H

FLOW RANGE

0.2 to 35 GPM
0 to 8,5 m3/hr

Nitro Series Valve Pressure Loss			
Flow gpm	Loss PSI	Flow m3/hr	Loss BAR
0-4	1.2 max	0-1,0	0,09 max
4	1.2	1,0	0,09
6	1.7	1,5	0,14
8	2.5	2,0	0,19
10	3.0	2,5	0,22
12	3.4	3,0	0,25
14	3.8	3,5	0,28
16	4.1	4,0	0,30
18	4.4	4,5	0,32
20	4.6	5,0	0,33
22	4.8	5,5	0,35
24	5.1	6,0	0,38
26	5.4	6,5	0,41
28	5.8	7,0	0,45
30	6.3	7,5	0,47
32	6.6	8,0	0,50
35	7.3	8,5	0,51

ELECTRICAL
Wiring requires a single lead from the controller to each solenoid, plus a common neutral to all solenoids; type UF wire, U.L. listed, is recommended for all hookups

24VAC/60Hz	24VAC/50Hz
Inrush: 9.48 VA	Inrush: 10.66 VA
Holding: 5.11 VA	Holding: 5.97 VA

Nitro Specifications		Factory Installed Options	Valve Dimensions			International Model
Model	Description		Length	Width	Height	
N-100-H	1” Valve - FIP *	-NP	4.88”	3.25”	5.00”	N-100-ISO-H
N-100F-H	1” Valve - FIP with Flow Control *					N-100F-ISO-H
N-100S-H	1” Valve - Slip x Slip					
N-100SF-H	1” Valve - Slip x Slip with Flow Control					
N-100MB-H	1” Valve - Male x Barb					
N-100MBF-H	1” Valve - Male x Barb with Flow Control					

SilverBullet

FEATURES

- 100% water tested
- 150PSI (10,3 BAR) rating
- Unique “reverse flow” design permits equal pressure distribution on both sides of the diaphragm, regardless of line pressure, providing zero stress to prevent “stretching,” a common cause of valve failure
- Reverse flow design for water conservation in the event of failure
- Diaphragm’s self cleaning ports constantly flex, inhibiting sand and silt from blocking valve action
- Molded shock cone for smooth operation and reduction of water hammer
- Easy-to-use internal manual bleed lever; bleeds valve downstream; has positive stops for open and closed positions
- Marine-grade S20P solenoid with stainless steel actuator
- High-strength glass-filled nylon body and cover with 1⁄4″ stainless steel cover bolts and mating brass body inserts
- Non-rising flow control stem throttles valve from full open to closed position on flow control models


SB-10


SB-10F


SB-15


SB-20

Silver Bullet Series Valve Pressure Loss

Flow gpm	SB-10 1″	SB-15 1 ½″	SB-20 2″	Flow m3/h	SB-10 1″	SB-15 1 ½″	SB-20 2″
0-4	1.2 max			0-0,9	0,08		
6	1.7			1,0	0,12		
8	2.5			2,0	0,17		
10	3.0			2,5	0,21		
15	3.9			3,0	0,27		
20	4.6	1.3		5,0	0,32	0,09	
25	5.2	1.6		6,0	0,36	0,11	
30	6.3	1.9		7,0	0,43	0,13	
35	7.3	2.4		8,0	0,50	0,17	
40		3.0	2.3*	9,0		0,21	0,16*
45		3.8	2.4	10,0		0,26	0,17
50		4.6	2.6	11,0		0,32	0,18
55		5.6	2.7	12,0		0,39	0,19
60		6.7	2.9	14,0		0,46	0,20
70		9.5	3.3	16,0		0,66	0,23
80		13.0	3.4	18,0		0,90	0,23
90			4.2	20,0			0,29
100			5.2	22,0			0,36
110			6.7	24,0			0,46
120			7.7	26,0			0,53
130			8.8	30,0			0,61

* Minimum recommended flow for valves with XPR option or PRK-24 accessory.

FLOW RANGE

0.2 to 130 GPM
0 to 30,0 m3/hr

ELECTRICAL

Wiring requires a single lead from the controller to each solenoid, plus a common neutral to all solenoids; type UF wire, U.L. listed, is recommended for all hookups

24VAC/60Hz	24VAC/50Hz
Inrush: 9.48 VA	Inrush: 10.66 VA
Holding: 5.11 VA	Holding: 5.97 VA

Silver Bullet (12000 Series) Specifications		Factory Installed Options (choose one)		Valve Dimensions			International Model
Model	Description			Length	Width	Height	
SB-10	1″ 24 VAC	-XPR Pressure Regulator-the Weathermatic XPR pressure regulating module senses inlet pressure and maintains constant outlet pressure.	-NP Non-potable alert flow handle may be substituted for the standard flow handle	5″	3.13″	4.75″	SB-10-ISO (12024E-10-H-ISO)
SB-10F	1″ 24 VAC with Flow Control						SB-10F-ISO (12024EF-10-H-ISO)
SB-15	1 ½″ VAC with Flow Control						SB-15-ISO (12024EF-15-H-ISO)
SB-20	2″ VAC with Flow Control						SB-20-ISO (12024EF-20-H-ISO)

BlackBullet MAX*

FEATURES

- 10 year trade warranty and 100% water tested
- 225 PSI (15,5 BAR) rating
- S24B high-efficiency solenoid for positive opening at high pressures; includes stainless steel actuator and brass threads for long life
- Reverse flow design for water conservation in the event of failure
- Diaphragm's self cleaning ports constantly flex, inhibiting sand and silt from blocking valve action
- Brass shock cone for smooth operation and reduction of water hammer
- Easy-to-use internal manual bleed lever; bleeds valve downstream; has positive stops for open and closed positions
- High-strength glass-filled body and cover with 1/4" stainless steel cover bolts and mating brass body inserts
- Brass non-rising flow control stem throttles valve from full open to closed position
- Excellent for low volume irrigation
- Contamination-resistant (CR)
- Chlorine- and chloramine-resistant EPDM diaphragm material

MAX-DW-15

MAX-DW WITH XPR OPTION

Black Bullet Max Valve Pressure Loss

Flow gpm	MAX-DW-10 1"	MAX-DW-15 1 1/2"	MAX-DW-20 2"	Flow m3/h	MAX-DW-10 1"	MAX-DW-15 1 1/2"	MAX-DW-20 2"
0-4	1.2 max			0-0,9	0,08 max		
6	1.4			1,0	0,10		
8	1.6			2,0	0,12		
10	1.7*			2,5	0,13*		
15	2.0			3,0	0,14		
20	2.3	1.3*		5,0	0,18	0,10*	
25	3.0	1.6		6,0	0,24	0,12	
30	4.3	1.9		7,0	0,32	0,14	
35	6.0	2.4		8,0	0,43	0,17	
40	7.7	3.0	2.3*	9,0	0,54	0,21	0,16*
45	9.5	3.8	2.4	10,0	0,64	0,26	0,17
50	11.5	4.6	2.6	11,0	0,77	0,31	0,17
55		5.6	2.7	12,0		0,37	0,18
60		6.7	2.9	14,0		0,51	0,20
70		9.5	3.3	16,0		0,68	0,23
80		13.0	3.4	18,0		0,90	0,23
90			4.2	20,0			0,29
100			5.2	22,0			0,34
110			6.7	24,0			0,42
120			7.7	26,0			0,50
130			8.8	30,0			0,62

* Minimum recommended flow for valves with XPR option or PRK-24 accessory.

FLOW RANGE

0.2 to 130 GPM
0 to 30,0 m3/hr

ELECTRICAL

Wiring requires a single lead from the controller to each solenoid, plus a common neutral to all solenoids; type UF wire, U.L. listed, is recommended for all hookups

24VAC/60Hz	24VAC/50Hz
Inrush: 9.86 VA	Inrush: 10.7 VA
Holding: 5.69 VA	Holding: 7.5 VA

Black Bullet Max (11000 Series) Specifications (Replaces Black Bullet (21000 Series) Model	Description	Factory Installed Options (choose one)		Valve Dimensions Length	Width	Height	International Model
MAX-DW-10	Dirty Water 1" 24 VAC	-XPR Pressure Regulator- the Weathermatic XPR pressure regulating module senses inlet pressure and maintains constant outlet pressure.	-NP Non-potable alert flow handle may be substituted for the standard flow handle	5"	3.13"	4.75"	MAX-DW-10-ISO (11024FCR-10D-ISO)
MAX-DW-15	Dirty Water 1 1/2" 24 VAC			5.75"	4.50'	4.88"	MAX-DW-15-ISO (11024FCR-15D-ISO)
MAX-DW-20	Dirty Water 2" 24 VAC			7.25"	5.00"	6.00"	MAX-DW-20-ISO (11024FCR-20D-ISO)

* Replaces Black Bullet (21000 Series) valve

BronzeBullet

FEATURES

- 10 year trade warranty and 100% water tested
- 225 PSI (15,5 BAR) rating
- S24B high-efficiency solenoid for positive opening at high pressures; includes stainless steel actuator and brass threads for long life
- Bronze body and cover with stainless steal bolts
- Bronze material with 82% copper content
- Reverse flow design for water conservation in the event of failure
- Diaphragm's self cleaning ports constantly flex, inhibiting sand and silt from blocking valve action
- Brass shock cone for smooth operation and reduction of water hammer
- Easy-to-use internal manual bleed lever; bleeds valve downstream; has positive stops for open and closed positions
- High-strength glass-filled body and cover with 1⁄4" stainless steel cover bolts and mating brass body inserts
- Brass non-rising flow control stem throttles valve from full open to closed position
- Excellent for low volume irrigation
- Contamination-resistant (CR)
- Chlorine- and chloramine-resistant EPDM diaphragm material

OPTIONS (FACTORY INSTALLED)

- XPR Pressure Regulator–the Weathermatic XPR pressure regulating module senses inlet pressure and maintains constant outlet pressure.
  (see PRK-24 in valve accessory section for specifications)
- Non-potable alert flow handle may be substituted for the standard flow handle. Add -NP suffix.

FLOW RANGE

0.2 to 400 GPM
0 to 90,0 m3/hr

8200CR

ELECTRICAL

Wiring requires a single lead from the controller to each solenoid, plus a common neutral to all solenoids; type UF wire, U.L. listed, is recommended for all hookups.

24VAC/60Hz	24VAC/50Hz
Inrush: 9.86 VA	Inrush: 10.7 VA
Holding: 5.69 VA	Holding: 7.5 VA

BronzeBullet

Bronze Bullet Specifications		Factory Installed Options (choose one)		Valve Dimensions			International Model
Model	Description			Length	Width	Height	
8200CR-10D	1" Red Brass Valve - 24VAC with Flow Control	-XPR	-NP	4.75"	3.63"	5.25"	8200CR-10D-ISO
8200CR-12D	1 1/4" Red Brass Valve - 24VAC with Flow Control			4.75"	3.63"	5.25"	8200CR-12D-ISO
8200CR-15D	1 1/2" Red BrassValve - 24VAC with Flow Control			5.06"	4.00"	5.75"	8200CR-15D-ISO
8200CR-20D	2" Red Brass Valve - 24VAC with Flow Control			6.63"	4.88"	7.25"	8200CR-20D-ISO
8200CR-25D	2 1/2" Red Brass Valve - 24VAC with Flow Control			8.00"	6.25"	8.00"	8200CR-25D-ISO
8200CR-30D	3" Red Brass Valve - 24VAC with Flow Control			8.75"	7.00"	8.50"	8200CR-30D-ISO

XPR - Pressure Regulator–the Weathermatic XPR pressure regulating module senses inlet pressure and maintains constant outlet pressure.

NP - Non-potable alert flow handle may be substituted for the standard flow handle

Bronze Bullet Valve Pressure Loss													
Flow gpm	8200CR-10 1"	8200CR-10 1 1/4"	8200CR-10 1 1/2"	8200CR-10 2"	8200CR-10 2 1/2"	8200CR-10 3"	Flow m3/h	8200CR-10 1"	8200CR-10 1 1/4"	8200CR-10 1 1/2"	8200CR-10 2"	8200CR-10 2 1/2"	8200CR-10 3"
0 - 10	1.5 max						0 - 2,3	0,10 max					
12	1.8*						3,0	0,14*					
16	2.4	1.9*					4,0	0,19	0,15*				
20	3.1	2.3	1.4*				5,0	0,25	0,19	0,11*			
25	4.0	3.0	1.7				6,0	0,30	0,22	0,13			
30	4.9	3.5	2.1				7,0	0,35	0,26	0,15			
35	5.9	4.1	2.5				8,0	0,42	0,30	0,17			
40	7.2	4.7	2.9	1.1*			9,0	0,50	0,33	0,20	0,08*		
45		5.5	3.3	1.3			10,0		0,37	0,23	0,08		
50		6.3	3.7	1.5			11,0		0,43	0,25	0,10		
55			4.2	1.8			12,0			0,28	0,12		
60			4.8	2.0	1.0*	0.5*	14,0			0,35	0,15	0,08*	0,04*
70			6.2	2.6	1.4	0.7	16,0			0,43	0,19	0,10	0,05
80			7.9	3.4	1.8	0.9	18,0			0,54	0,24	0,12	0,06
90			10.1	4.3	2.1	1.1	20,0			0,68	0,29	0,15	0,08
100				5.3	2.6	1.3	24,0				0,42	0,20	0,10
120				8.0	3.6	1.8	28,0				0,61	0,27	0,13
140				12.0	4.8	2.4	32,0				0,84	0,34	0,17
160				18.2	6.1	3.1	36,0				1,23	0,42	0,21
180					7.5	3.8	40,0					0,51	0,27
200					9.1	4.6	50,0					0,77	0,40
250					14.0	7.1	60,0					1,09	0,56
300					19.6	10.1	70,0					1,45	0,76
350						13.8	80,0						1,00
400						19.3	90,0						1,34

* Minimum recommended flow for valves with XPR option or PRK-24 accessory.

ValveAccessories

SMART CONTROL ZONES

- Saves time with pre-assembled valve, filter, and pressure regulator
- Ultra low-flow capability (1 Gallon per Hour)
- Wye filter with 150 mesh stainless steel screen and 3/4 inch hose-thread flush outlet
- 16 gauge stainless steel or powder-coated metal wall-mount cabinet or enclosure options
- 25 or 40 psi pressure regulator options
- Patented self-cleaning valve diaphragm
- Patented manual bleed lever. No twisting on a solenoid or bleed screw is required
- Pressure activated diaphragm ensures reliable operation with no leakage at pressures up to 150 – 200 psi
- Innovative valve shock cone interrupts the water flow more gradually than other diaphragms to enable quick valve closure without the damaging effect of water hammer
- Residential, light commercial and commercial options available
- 2-year warranty (MAX valve – 10-year warranty)

Smart Control Zone Specifications	
Model	**Description**
SCZ-N-100F-H	Nitro Control Zone (1" FIP with flow control, 1" x 3/4" Wye filter & 25 psi reg)
SCZ-SB-10F	Silver Bullet Control Zone (1" FIP with flow control, 1" x 3/4" Wye filter & 25 psi reg)
SCZ-MAX-DW-10	Black Bullet Max Control Zone (1" FIP with flow control, 1" x 1" Wye filter & 40 psi reg)

SCZ-SB-10F

SCZ-N-100F-H

SCZ-MAX-DW-10

Valve Accessories

PRK-24 (XPR) PRESSURE REGULATOR

- The Weathermatic PRK-24 (XPR) pressure regulating module senses inlet pressure and maintains constant outlet pressure regardless of inlet pressure variation
- Maximum inlet pressure: 150 PSI (10,3 BAR)
- Minimum flow (see valve tables)
- Maximum flow (see valve tables)
- Minimum pressure differential between inlet and outlet:
- 10 PSI (0,7 BAR)
- Regulated pressure range at outlet:
- 15 – 110 PSI (±5 PSI)
  1,0 – 7,6 BAR (± 0,35 BAR)
- Manual flow and bleed control
- Regulates pressure when valve is operated electrically or manually
- Downstream connection for accurate pressure sensing
- Schrader valve for connecting pressure gauge

NO. 910 AUTOMATIC DRAIN VALVE

- Small, compact, spring-loaded valve designed especially to drain sprinkler systems
- Fine screen on intake and drain ends prevents clogging from either direction
- Has a 5 oz. bronze spring that opens valve against a 6′ head (1,8 m/hd) of water, insuring drainage in all sections of the system
- Drain will close tight on three pounds line pressure
- Not recommended for pipe lines under continuous pressure. 1⁄2″ male IPS connection.

PRG-24 PRESSURE HOSE GAUGE ASSEMBLY

- Monitors valve outlet pressure
- Quick connect hose fitting for Schrader valve on Weathermatic PRK-24 (XPR) regulators
- Gauge provides accurate reading of outlet pressure on 0 – 160 PSI scale or secondary 0 – 1100 KPA unit scale; 36” (91 cm) long high-pressure hose permits easy reading of gauge

NO. 906 & 906L VALVE CAPS

- Provides access to manual valves
- Brass hinged cover
- Molded high-impact plastic body allows welding to 2”PVC pipe
- 906L has locking cover
- Key (RLK-1) may be ordered separately

PRE-FILLED VALVE WIRING CONNECTORS

- Eliminates sealant mess
- Quick, easy and waterproof
- WC - 14 accommodates 10, 12, or 14 gauge wire sizes
- WC - 18 accommodates 16, 18, or 22 gauge wire sizes

WC - 18

WC - 14

MAXSpray

FEATURES

MAXIMUM SEAL

- Industry standard white Santoprene seal for ultimate performance
- Industry first dual pressure-activated seal, stem, and cap eliminates cap to body leaks

MAXIMUM SPRING

- Industry's strongest spring for positive retraction
- Corrosion resistant stainless steel material for long life

MAXIMUM SELF-CLEANING CHECK VALVE

- Enhanced debris resistance through expanded surface area
- Tapered design for self-cleaning operation
- Positive seal even in dirty water environment

MAXIMUM LEVEL CAP

- Enhanced debris resistance through expanded surface area
- Flat cap and easy pull up, low profile flush plug for sprinkler leveling
- Superior labeling process allows better identification and customization

OPERATING DATA

- Pressure range: 15 - 70 PSI (1,0 - 4,8 BARS)
- Flow-by: Zero @ 5 PSI (0,3) or greater
- Factory installed check valve: 9.5 ft/hd @ 18 PSI (2.9 m/hd @ 1,2 BAR)

MAX and MAXPRS Accessories

MAX-EXT
6" Riser Extension

MAXS Shrub Adapter
½" female inlet threads except all industry-standard female nozzles

MAX Spray Specification

Model	Dimensions ½" Female Threaded inlets Pop-up Height		Body Height	
MAX4	4"	10 cm	6 ¼"	15,9 cm
MAX6	6"	15 cm	8 ½"	21,6 cm
MAX12	12"	30 cm	15 ¼"	38,7 cm
MAX4-CV	4"	10 cm		
MAX6-CV	6"	15 cm		
MAX12-CV	12"	30 cm		
MAX-EXT	6" riser extension			
Exposed Cover			2 ¼"	5,7 cm

MAXPRSSpray

FEATURES

MAXIMUM SEAL

- Industry standard white Santoprene seal for ultimate performance
- Industry first dual pressure-activated seal, stem, and cap eliminates cap to body leaks

MAXIMUM SPRING

- Industry's strongest spring for positive retraction
- Corrosion resistant stainless steel material for long life

MAXIMUM SELF-CLEANING CHECK VALVE

- Enhanced debris resistance through expanded surface area
- Tapered design for self-cleaning operation
- Positive seal even in dirty water environment

MAXIMUM LEVEL CAP

- Enhanced debris resistance through expanded surface area
- Flat cap and easy pull up, low profile flush plug for sprinkler leveling
- Superior labeling process allows better identification and customization

MAXIMUM PRS

- Full range pressure regulation at 30PSI and 40PSI
- Industry leading flow ranges

MAX4PRS30
MAX4PRS40

MAX6PRS30
MAX6PRS40

MAX12PRS30
MAX12PRS40

with side - inlet

OPERATING DATA

Factory installed check valve: 9.5 ft/hd @ 18 PSI (2.9 m/hd @ 1,2 BAR)

MAXPRS30 Spray Specification

Model	Description	Dimensions ½" Female Threaded inlets Pop-up Height		Body Height	
MAX4PRS30	MAX4 Pop-Up Sprayhead with 30 PSI regulated stem	6 ¼"	15,9 cm	4"	10 cm
MAX6PRS30	MAX6 Pop-Up Sprayhead with 30 PSI regulated stem	8 ½"	21,6 cm	6"	15 cm
MAX12PRS30	MAX6 Pop-Up Sprayhead with 30 PSI regulated stem	15 ¼"	38,7 cm	12"	30 cm
MAX4PRS30-CV	MAX4 Pop-Up Sprayhead with 30 PSI regulated stem & Check Valve	6 ¼"	15,9 cm	4"	10 cm
MAX6PRS30-CV	MAX6 Pop-Up Sprayhead with 30 PSI regulated stem & Check Valve	8 ½"	21,6 cm	6"	15 cm
MAX12PRS30-CV	MAX6 Pop-Up Sprayhead with 30 PSI regulated stem & Check Valve	15 ¼"	38,7 cm	12"	30 cm
Exposed Cover		2 ¼"	5,7 cm		

MAXPRS40 LX Spray Specification

Model	Description	Dimensions ½" Female Threaded inlets Pop-up Height		Body Height	
MAX4PRS40	MAX4 Pop-Up Sprayhead with 40 PSI regulated stem	6 ¼"	15,9 cm	4"	10 cm
MAX6PRS40	MAX6 Pop-Up Sprayhead with 40 PSI regulated stem	8 ½"	21,6 cm	6"	15 cm
MAX12PRS40	MAX6 Pop-Up Sprayhead with 40 PSI regulated stem	15 ¼"	38,7 cm	12"	30 cm
MAX4PRS40-CV	MAX4 Pop-Up Sprayhead with 40 PSI regulated stem & Check Valve	6 ¼"	15,9 cm	4"	10 cm
MAX6PRS40-CV	MAX6 Pop-Up Sprayhead with 40 PSI regulated stem & Check Valve	8 ½"	21,6 cm	6"	15 cm
MAX12PRS40-CV	MAX6 Pop-Up Sprayhead with 40 PSI regulated stem & Check Valve	15 ¼"	38,7 cm	12"	30 cm

MAXMPR

8 Series

10 Series

12 Series

15 Series

15/9 Strip Series

5 Stream/
Bubbler Series

FEATURES

Color-coded for easy identification

- Matched precipitation rates across sets and across patterns in each numbered series
- LX Series screens maintain precise radius adjustments
- (screen included with every nozzle)
- Stainless steel radius adjustment screw
- Reusable, dual compartment resealable bags

APPLICATIONS

- For use with all LX Series sprayheads
- Fits all industry-standard sprayheads with male thread risers
- Fits LXS, No. 72 and No. 73 Shrub Adapters

OPERATING DATA

- Precipitation rate: 1.67 – 5.33" per hour (37 – 144 mm/h)
- Spacing: 5 – 15' (1,5 – 4,6 m)
- Pressure: 15 – 30 PSI (1,0 – 2,1 BARS)
- Flow range: 0.3 - 3.7 GPM (0,1 - 0,8 m3/h)
- MPR performance was determined with nozzles mounted on 4" (10,2 cm) pop-ups. ASAE standard of .01" per hour was used to determine listed radius

8 Series
5° Spray Trajectory

Nozzle	Arc	Pressure PSI	Radius ft	Flow gpm	Precip. in/hr ■	Precip. in/hr ▲	Pressure BAR	Radius m	Metric Flow m3/h	Metric Precip. mm/hr ■	Metric Precip. mm/hr ▲
8F	360°	15	5	1.2	4.62	5.33	1,0	1,5	0,27	120	139
		20	6	1.3	3.48	4.01	1,4	1,8	0,30	93	107
		25	7	1.4	2.75	3.18	1,7	2,1	0,32	73	84
		30	8	1.6	2.41	2.78	2,1	2,4	0,36	63	72
8H	180°	15	5	0.6	4.62	5.33	1,0	1,5	0,14	124	144
		20	6	0.7	3.74	4.32	1,4	1,8	0,16	99	114
		25	7	0.7	2.75	3.18	1,7	2,1	0,16	73	84
		30	8	0.8	2.41	2.78	2,1	2,4	0,18	63	72
8T	120°	15	5	0.4	4.62	5.33	1,0	1,5	0,09	120	139
		20	6	0.4	3.21	3.70	1,4	1,8	0,09	83	96
		25	7	0.5	2.95	3.40	1,7	2,1	0,11	75	86
		30	8	0.5	2.26	2.60	2,1	2,4	0,11	57	66
8Q	90°	15	5	0.3	4.62	5.33	1,0	1,5	0,07	124	144
		20	6	0.3	3.21	3.70	1,4	1,8	0,07	86	100
		25	7	0.4	3.14	3.63	1,7	2,1	0,09	82	94
		30	8	0.4	2.41	2.78	2,1	2,4	0,09	63	72

■ Square spacing based on 50% of diameter
▲ Triangular spacing based on 50% of diameter
Max radius reduction with adjustment screw is 25%

10 Series
15° Spray Trajectory

Nozzle	Arc	Pressure PSI	Radius ft	Flow gpm	Precip. in/hr ■	Precip. in/hr ▲	Pressure BAR	Radius m	Metric Flow m3/h	Metric Precip. mm/hr ■	Metric Precip. mm/hr ▲
10F	360°	15	7	1.2	2.36	2.72	1,0	2,1	0,27	61	71
		20	8	1.3	1.96	2.26	1,4	2,4	0,30	52	60
		25	9	1.4	1.66	1.92	1,7	2,7	0,32	44	51
		30	10	1.6	1.54	1.78	2,1	3,0	0,36	40	46
10H	180°	15	7	0.6	2.36	2.72	1,0	2,1	0,14	63	73
		20	8	0.7	2.11	2.43	1,4	2,4	0,16	56	64
		25	9	0.7	1.66	1.92	1,7	2,7	0,16	44	51
		30	10	0.8	1.54	1.78	2,1	3,0	0,18	40	46
10T	120°	15	7	0.4	2.36	2.72	1,0	2,1	0,09	61	71
		20	8	0.4	1.80	2.08	1,4	2,4	0,09	47	54
		25	9	0.5	1.78	2.06	1,7	2,7	0,11	45	52
		30	10	0.5	1.44	1.67	2,1	3,0	0,11	37	42
10Q	90°	15	7	0.3	2.36	2.72	1,0	2,1	0,07	63	73
		20	8	0.3	1.80	2.08	1,4	2,4	0,07	49	56
		25	9	0.4	1.90	2.20	1,7	2,7	0,09	49	57
		30	10	0.4	1.54	1.78	2,1	3,0	0,09	40	46

■ Square spacing based on 50% of diameter
▲ Triangular spacing based on 50% of diameter
Max radius reduction with adjustment screw is 25%

MAXMPR

12 Series
30° Spray Trajectory

Nozzle	Arc	Pressure PSI	Radius ft	Flow gpm	Precip. in/hr ■	Precip. in/hr ▲	Pressure BAR	Radius m	Metric Flow m3/h	Metric Precip. mm/hr ■	Metric Precip. mm/hr ▲
12F	360°	15	9	1.8	2.14	2.47	1,0	2,7	0,41	56	65
		20	10	2.1	2.02	2.33	1,4	3,0	0,48	53	62
		25	11	2.4	1.91	2.20	1,7	3,3	0,55	51	58
		30	12	2.6	1.74	2.01	2,1	3,7	0,59	43	50
12H	180°	15	9	0.9	2.14	2.47	1,0	2,7	0,20	55	63
		20	10	1.0	1.93	2.22	1,4	3,0	0,23	51	59
		25	11	1.2	1.91	2.20	1,7	3,3	0,27	50	57
		30	12	1.3	1.74	2.01	2,1	3,7	0,30	44	51
12T	120°	15	9	0.6	2.14	2.47	1,0	2,7	0,14	58	67
		20	10	0.7	2.02	2.33	1,4	3,0	0,16	53	62
		25	11	0.8	1.91	2.20	1,7	3,3	0,18	50	57
		30	12	0.9	1.80	2.08	2,1	3,7	0,20	44	51
12Q	90°	15	9	0.5	2.38	2.74	1,0	2,7	0,11	60	70
		20	10	0.5	1.93	2.22	1,4	3,0	0,11	49	56
		25	11	0.6	1.91	2.20	1,7	3,3	0,14	51	59
		30	12	0.7	1.87	2.16	2,1	3,7	0,16	47	54
12TT	240°	15	9	1.1	1.93	2.46	1,0	2,7	0,25	51	65
		20	10	1.3	1.85	2.00	1,4	3,0	0,29	48	53
		25	11	1.5	1.73	1.65	1,7	3,3	0,33	45	43
		30	12	1.6	1.59	1.39	2,1	3,7	0,37	41	35
12TQ	270°	15	9	1.3	2.07	2.46	1,0	2,7	0,30	55	65
		20	10	1.5	1.96	2.00	1,4	3,0	0,35	52	53
		25	11	1.7	1.83	1.65	1,7	3,3	0,40	49	43
		30	12	1.8	1.63	1.39	2,1	3,7	0,42	41	35

■ Square spacing based on 50% of diameter
▲ Triangular spacing based on 50% of diameter
Max radius reduction with adjustment screw is 25%

15 Series
30° Spray Trajectory

Nozzle	Arc	Pressure PSI	Radius ft	Flow gpm	Precip. in/hr ■	Precip. in/hr ▲	Pressure BAR	Radius m	Metric Flow m3/h	Metric Precip. mm/hr ■	Metric Precip. mm/hr ▲
15F	360°	15	11	2.6	2.07	2.39	1,0	3,4	0,59	51	59
		20	12	3.0	2.01	2.32	1,4	3,7	0,68	50	57
		25	14	3.3	1.62	1.87	1,7	4,3	0,75	41	47
		30	15	3.7	1.58	1.83	2,1	4,6	0,84	40	46
15H	180°	15	11	1.3	2.07	2.39	1,0	3,4	0,30	52	60
		20	12	1.5	2.01	2.32	1,4	3,7	0,34	50	57
		25	14	1.7	1.67	1.93	1,7	4,3	0,39	42	49
		30	15	1.9	1.63	1.88	2,1	4,6	0,43	41	47
15T	120°	15	11	0.9	2.15	2.48	1,0	3,7	0,20	52	60
		20	12	1.0	2.01	2.32	1,4	3,7	0,23	50	58
		25	14	1.1	1.62	1.87	1,7	4,3	0,25	41	47
		30	15	1.2	1.54	1.78	2,1	4,6	0,27	38	44
15Q	90°	15	11	0.7	2.23	2.57	1,0	3,4	0,16	55	64
		20	12	0.8	2.14	2.47	1,4	3,7	0,18	53	61
		25	14	0.8	1.57	1.81	1,7	4,3	0,18	39	45
		30	15	0.9	1.54	1.78	2,1	4,6	0,20	38	44
15TT	240°	15	11	1.6	1.96	2.39	1,0	3,4	0,38	49	60
		20	12	1.9	1.90	2.00	1,4	3,7	0,44	48	58
		25	14	2.1	1.55	1.47	1,7	4,3	0,48	39	48
		30	15	2.3	1.47	1.28	2,1	4,6	0,53	38	46
15TQ	270°	15	11	2.1	2.24	2.39	1,0	3,4	0,49	57	60
		20	12	2.5	2.20	3.00	1,4	3,7	0,57	56	58
		25	14	2.8	1.82	1.47	1,7	4,3	0,64	46	48
		30	15	3.0	1.70	1.28	2,1	4,6	0,68	43	46

■ Square spacing based on 50% of diameter
▲ Triangular spacing based on 50% of diameter
Max radius reduction with adjustment screw is 25%

15/9 Strip Series
30° Spray Trajectory

Nozzle Pattern	Pressure PSI	Width x Length (ft)	Flow gpm	Precip.* in/hr	Flow gpm (2)	Metric Pressure BAR	Metric Radius m (1)	Metric Flow m3/h (2)
15EST	15	4 x 13	0.5	1.85	1,0	1,2 x 4,0	0,11	46
	20	4 x 14	0.5	1.72	1,4	1,2 x 4,3	0,11	43
	25	4 x 14	0.6	2.06	1,7	1,2 x 4,3	0,14	54
	30	4 x 15	0.6	1.93	2,1	1,2 x 4,6	0,14	51
15CST	15	4 x 26	0.9	1.67	1,0	1,2 x 7,9	0,20	42
	20	4 x 28	1.0	1.72	1,4	1,2 x 8,5	0,23	45
	25	4 x 28	1.1	1.89	1,7	1,2 x 8,5	0,25	49
	30	4 x 30	1.2	1.93	2,1	1,2 x 9,1	0,27	50
15SST	15	4 x 26	0.9	1.67	1,0	1,2 x 7,9	0,20	42
	20	4 x 28	1.0	1.72	1,4	1,2 x 8,5	0,23	45
	25	4 x 28	1.1	1.89	1,7	1,2 x 8,5	0,25	49
	30	4 x 30	1.2	1.93	2,1	1,2 x 9,1	0,27	50
9SST	15	9 x 15	1.3	1.85	1,0	2,7 x 4,6	0,30	48
	20	9 x 16	1.5	2.01	1,4	2,7 x 4,9	0,34	51
	25	9 x 18	1.6	1.90	1,7	2,7 x 5,5	0,36	49
	30	9 x 18	1.7	2.02	2,1	2,7 x 5,5	0,39	53

* Precipitation based on in-line, head-to-head spacing.

5 Stream Bubbler Series
0° Spray Trajectory

Nozzle Pattern	Pressure PSI	Radius ft (1)	Flow gpm (2)	Pressure BAR	Metric Radius m (1)	Flow m3/h (2)
5FB	15	5	1.5	0	1,5	0,34
	20	5	1.5	1,4	1,5	0,34
	25	5	1.5	1,7	1,5	0,34
	30	5	1.5	2,1	1,5	0,34
5HB	15	5	1.0	1,0	1,5	0,23
	20	5	1.0	1,4	1,5	0,23
	25	5	1.0	1,7	1,5	0,23
	30	5	1.0	2,1	1,5	0,23
5QB	15	5	0.5	1,0	1,5	0,11
	20	5	0.5	1,4	1,5	0,11
	25	5	0.5	1,7	1,5	0,11
	30	5	0.5	2,1	1,5	0,11
5CST-B	15	5	0.5	1,0	1,5	0,11
	20	5	0.5	1,4	1,5	0,11
	25	5	0.5	1,7	1,5	0,11
	30	5	0.5	2,1	1,5	0,11

(1) Adjusted radius at pressure shown
(2) Flow with radius adjusted to 5 ft (1.5m)

MAXAAN

FEATURES

- Easy grip-and-turn adjustment
- Exceptional uniform coverage
- Maintains matched precipitation rates between arcs within a radius
- Stainless steel radius adjustment screw
- Reusable, dual compartment resealable bags

APPLICATIONS

- For use with all LX Series sprayheads
- Fits all industry-standard sprayheads with male thread risers

OPERATING DATA

- Precipitation rate: 1.18 – 5.74" per hour (30 – 146 mm/h)
- Pressure: 20 – 40 PSI (1,4 – 2,8 BARS)
- Flow range: 0.4 - 3.8 GPM (0,1 - 0,9 m3/h)

LX Adjustable Arc Nozzles

		Nozzle 8A Trajectory: 0° Color Code: YELLOW				Nozzle 10A Trajectory: 5° Color Code: RED				Nozzle 12A Trajectory: 15° Color Code: GREEN				Nozzle 15A Trajectory: 30° Color Code: GREY				Nozzle 17A Trajectory: 30° Color Code: GREY			
Arc	Pressure PSI	Radius ft	Flow gpm	Precip. ■	in/hr ▲	Radius ft	Flow gpm	Precip. ■	in/hr ▲	Radius ft	Flow gpm	Precip. ■	in/hr ▲	Radius ft	Flow gpm	Precip. ■	in/hr ▲	Radius ft	Flow gpm	Precip. ■	in/hr ▲
45°	20	8	0.57	6.86	7.92	10	0.59	4.54	5.25	12	0.50	2.67	3.09	15	0.51	1.75	2.02	16	0.41	1.23	1.42
	25	8	0.62	7.46	8.61	10	0.66	5.08	5.87	12	0.61	3.26	3.77	15	0.62	2.12	2.45	16	0.48	1.44	1.67
	30	8	0.68	8.18	9.45	10	0.74	5.70	6.58	12	0.64	3.42	3.95	15	0.72	2.46	2.85	16	0.53	1.59	1.84
	35	9	0.72	6.84	7.90	11	0.80	5.09	5.88	13	0.71	3.23	3.74	16	0.76	2.29	2.64	17	0.57	1.52	1.75
	40	9	0.78	7.41	8.56	11	0.86	5.47	6.32	13	0.72	3.28	3.79	16	0.79	2.38	2.74	17	0.61	1.63	1.88
90°	20	8	0.82	4.93	5.70	10	0.93	3.58	4.13	12	0.75	2.01	2.32	15	0.82	1.40	1.62	16	0.84	1.26	1.46
	25	8	0.88	5.29	6.11	10	1.00	3.85	4.45	12	0.93	2.49	2.87	15	0.93	1.59	1.84	16	0.95	1.43	1.65
	30	8	0.97	5.84	6.74	10	1.11	4.27	4.93	12	1.00	2.67	3.09	15	1.04	1.78	2.05	16	1.03	1.55	1.79
	35	9	1.03	4.90	5.65	11	1.19	3.79	4.37	13	1.10	2.51	2.89	16	1.10	1.65	1.91	17	1.08	1.44	1.66
	40	9	1.13	5.37	6.20	11	1.27	4.04	4.67	13	1.16	2.64	3.05	16	1.20	1.80	2.08	17	1.14	1.52	1.75
120°	20	8	0.90	4.06	4.69	10	1.10	3.18	3.67	12	0.87	1.74	2.01	15	1.10	1.41	1.63	16	1.02	1.15	1.33
	25	8	1.15	5.19	5.99	10	1.31	3.78	4.37	12	1.04	2.09	2.41	15	1.21	1.55	1.79	16	1.09	1.23	1.42
	30	8	1.25	5.64	6.51	10	1.41	4.07	4.70	12	1.13	2.27	2.62	15	1.33	1.71	1.97	16	1.19	1.34	1.55
	35	9	1.35	4.81	5.56	11	1.50	3.58	4.13	13	1.22	2.08	2.41	16	1.44	1.62	1.88	17	1.24	1.24	1.43
	40	9	1.41	5.03	5.80	11	1.60	3.82	4.41	13	1.32	2.26	2.60	16	1.50	1.69	1.95	17	1.34	1.34	1.55
180°	20	8	1.35	4.06	4.69	10	1.45	2.79	3.22	12	1.21	1.62	1.87	15	1.42	1.21	1.40	16	1.36	1.02	1.18
	25	8	1.47	4.42	5.11	10	1.61	3.10	3.58	12	1.28	1.71	1.98	15	1.65	1.41	1.63	16	1.53	1.15	1.33
	30	8	1.61	4.84	5.59	10	1.78	3.43	3.96	12	1.59	2.13	2.45	15	1.75	1.50	1.73	16	1.68	1.26	1.46
	35	9	1.74	4.14	4.78	11	1.87	2.98	3.44	13	1.73	1.97	2.28	16	1.89	1.42	1.64	16	1.82	1.37	1.58
	40	9	1.83	4.35	5.02	11	2.02	3.21	3.71	13	1.87	2.13	2.46	16	2.06	1.55	1.79	16	1.95	1.47	1.69
240°	20	8	1.73	3.90	4.51	10	1.90	2.74	3.17	12	1.46	1.46	1.69	15	1.55	0.99	1.15	16	1.62	0.91	1.05
	25	8	1.97	4.44	5.13	10	2.12	3.06	3.53	12	1.63	1.63	1.89	15	1.75	1.12	1.30	16	1.83	1.03	1.19
	30	8	2.20	4.96	5.73	10	2.30	3.32	3.83	12	1.80	1.80	2.08	15	1.91	1.23	1.42	16	2.04	1.15	1.33
	35	9	2.40	4.28	4.94	11	2.52	3.01	3.47	13	1.94	1.66	1.91	16	2.04	1.15	1.33	16	2.22	1.25	1.45
	40	9	2.56	4.56	5.27	11	2.67	3.19	3.68	13	2.14	1.83	2.11	16	2.15	1.21	1.40	16	2.37	1.34	1.54
270°	20	8	1.87	3.75	4.33	10	2.00	2.57	2.96	12	1.54	1.37	1.58	15	2.02	1.15	1.33	16	1.96	0.98	1.13
	25	8	2.10	4.21	4.86	10	2.26	2.90	3.35	12	1.73	1.54	1.78	15	2.32	1.32	1.53	16	2.21	1.11	1.28
	30	8	2.26	4.53	5.23	10	2.47	3.17	3.66	12	1.93	1.72	1.99	15	2.51	1.43	1.65	16	2.47	1.24	1.43
	35	9	2.40	3.80	4.39	11	2.70	2.86	3.31	13	2.11	1.60	1.85	16	2.74	1.37	1.59	16	2.64	1.32	1.53
	40	9	2.63	4.17	4.81	11	2.98	3.16	3.65	13	2.30	1.75	2.02	16	2.97	1.49	1.72	16	2.80	1.40	1.62
360°	20	8	2.21	3.32	3.84	10	2.31	2.22	2.57	12	1.67	1.12	1.29	15	2.38	1.02	1.18	16	2.53	0.95	1.10
	25	8	2.52	3.79	4.38	10	2.61	2.51	2.90	12	1.89	1.26	1.46	15	2.66	1.14	1.31	16	2.86	1.08	1.24
	30	8	2.84	4.27	4.93	10	2.87	2.76	3.19	12	2.11	1.41	1.63	15	2.96	1.27	1.46	16	3.30	1.24	1.43
	35	9	2.99	3.55	4.10	11	3.13	2.49	2.88	13	2.27	1.29	1.49	16	3.26	1.23	1.42	16	3.43	1.29	1.49
	40	9	3.20	3.80	4.39	11	3.37	2.68	3.10	13	2.44	1.39	1.60	16	3.46	1.30	1.50	16	3.83	1.44	1.66





LX Adjustable Arc Nozzles																					
		Nozzle 8A Trajectory: 0° Color Code: YELLOW				Nozzle 10A Trajectory: 5° Color Code: RED				Nozzle 12A Trajectory: 15° Color Code: GREEN				Nozzle 15A Trajectory: 30° Color Code: GREY				Nozzle 17A Trajectory: 30° Color Code: GREY			
Arc	Pressure BAR	Radius m	Flow m3/h	Precip. ▮	mm/hr ▲	Radius m	Flow m3/h	Precip. ▮	mm/hr ▲	Radius m	Flow m3/h	Precip. ▮	mm/hr ▲	Radius m	Flow m3/h	Precip. ▮	mm/hr ▲	Radius m	Flow m3/h	Precip. ▮	mm/hr ▲
45°	1,38	2,4	0,13	174	201	3,0	0,13	115	133	3,7	0,11	68	78	4,6	0,12	44	51	4,9	0,09	31	36
	1,72	2,4	0,14	189	219	3,0	0,15	129	149	3,7	0,14	83	96	4,6	0,14	54	62	4,9	0,11	37	42
	2,07	2,4	0,15	208	240	3,0	0,17	145	167	3,7	0,15	87	100	4,6	0,16	63	72	4,9	0,12	40	47
	2,41	2,7	0,16	174	201	3,4	0,18	129	149	4,0	0,16	82	95	4,9	0,17	58	67	5,2	0,13	39	45
	2,76	2,7	0,18	188	217	3,4	0,20	139	161	4,0	0,16	83	96	4,9	0,18	60	70	5,2	0,14	41	48
90°	1,38	2,4	0,19	125	145	3,0	0,21	91	105	3,7	0,17	51	59	4,6	0,19	36	41	4,9	0,19	32	37
	1,72	2,4	0,20	134	155	3,0	0,23	98	113	3,7	0,21	63	73	4,6	0,21	40	47	4,9	0,22	36	42
	2,07	2,4	0,22	148	171	3,0	0,25	109	125	3,7	0,23	68	78	4,6	0,24	45	52	4,9	0,23	39	45
	2,41	2,7	0,23	124	144	3,4	0,27	96	111	4,0	0,25	64	73	4,9	0,25	42	49	5,2	0,25	37	42
	2,76	2,7	0,26	136	158	3,4	0,29	103	119	4,0	0,26	67	78	4,9	0,27	46	53	5,2	0,26	39	45
120°	1,38	2,4	0,20	103	119	3,0	0,25	81	93	3,7	0,20	44	51	4,6	0,25	36	41	4,9	0,23	29	34
	1,72	2,4	0,26	132	152	3,0	0,30	96	111	3,7	0,24	53	61	4,6	0,27	39	46	4,9	0,25	31	36
	2,07	2,4	0,28	143	165	3,0	0,32	103	119	3,7	0,26	58	66	4,6	0,30	43	50	4,9	0,27	34	39
	2,41	2,7	0,31	122	141	3,4	0,34	91	105	4,0	0,28	53	61	4,9	0,33	41	48	5,2	0,28	31	36
	2,76	2,7	0,32	128	147	3,4	0,36	97	112	4,0	0,30	57	66	4,9	0,34	43	50	5,2	0,30	34	39
180°	1,38	2,4	0,31	103	119	3,0	0,33	71	82	3,7	0,28	41	47	4,6	0,32	31	36	4,9	0,31	26	30
	1,72	2,4	0,33	112	130	3,0	0,37	79	91	3,7	0,29	43	50	4,6	0,37	36	41	4,9	0,35	29	34
	2,07	2,4	0,37	123	142	3,0	0,40	87	101	3,7	0,36	54	62	4,6	0,40	38	44	4,9	0,38	32	37
	2,41	2,7	0,40	105	121	3,4	0,42	76	87	4,0	0,39	50	58	4,9	0,43	36	42	4,9	0,41	35	40
	2,76	2,7	0,42	110	128	3,4	0,46	82	94	4,0	0,42	54	62	4,9	0,47	39	45	4,9	0,44	37	43
240°	1,38	2,4	0,39	99	114	3,0	0,43	70	80	3,7	0,33	37	43	4,6	0,35	25	29	4,9	0,37	23	27
	1,72	2,4	0,45	113	130	3,0	0,48	78	90	3,7	0,37	42	48	4,6	0,40	29	33	4,9	0,42	26	30
	2,07	2,4	0,50	126	146	3,0	0,52	84	97	3,7	0,41	46	53	4,6	0,43	31	36	4,9	0,46	29	34
	2,41	2,7	0,55	109	125	3,4	0,57	76	88	4,0	0,44	42	49	4,9	0,46	29	34	4,9	0,50	32	37
	2,76	2,7	0,58	116	134	3,4	0,61	81	93	4,0	0,49	46	54	4,9	0,49	31	36	4,9	0,54	34	39
270°	1,38	2,4	0,42	95	110	3,0	0,45	65	75	3,7	0,35	35	40	4,6	0,46	29	34	4,9	0,45	25	29
	1,72	2,4	0,48	107	124	3,0	0,51	74	85	3,7	0,39	39	45	4,6	0,53	34	39	4,9	0,50	28	32
	2,07	2,4	0,51	115	133	3,0	0,56	81	93	3,7	0,44	44	50	4,6	0,57	36	42	4,9	0,56	31	36
	2,41	2,7	0,55	97	112	3,4	0,61	73	84	4,0	0,48	41	47	4,9	0,62	35	40	4,9	0,60	34	39
	2,76	2,7	0,60	106	122	3,4	0,68	80	93	4,0	0,52	44	51	4,9	0,67	38	44	4,9	0,64	36	41
360°	1,38	2,4	0,50	84	97	3,0	0,52	56	65	3,7	0,38	28	33	4,6	0,54	26	30	4,9	0,57	24	28
	1,72	2,4	0,57	96	111	3,0	0,59	64	74	3,7	0,43	32	37	4,6	0,60	29	33	4,9	0,65	27	32
	2,07	2,4	0,65	108	125	3,0	0,65	70	81	3,7	0,48	36	41	4,6	0,67	32	37	4,9	0,75	32	36
	2,41	2,7	0,68	90	104	3,4	0,71	63	73	4,0	0,52	33	38	4,9	0,74	31	36	4,9	0,78	33	38
	2,76	2,7	0,73	97	112	3,4	0,77	68	79	4,0	0,55	35	41	4,9	0,79	33	38	4,9	0,87	37	42

B Series

FULL Circle

PART Circle

PART Circle with included filter

FEATURES

- Milled brass design provides best available uniform precipitation
- Arcs and angles for any landscape requirement
- Maintains matched precipitation rates between arcs within a radius

APPLICATIONS

- Projects that require nothing but the very best
- For use with all LX Series sprayheads
- Fits all industry-standard sprayheads with male thread risers

OPERATING DATA

- Low minimum operating pressure of 20 PSI (1,4 BAR)
- Flow range: 0.3 - 7.5 GPM (0,1 - 1,7 m3/h)
- Precipitation rate: 0.79 - 3.45
- B3 nozzles are compatible with most micro-irrigation application rates

30° and Low Angle 15° Trajectory / Matched Precipitation

Max Spacing			B3 3 - 5 Feet				B10 10 Feet				B12 12 Feet				B15 15 Feet				B18 18 Feet				B20 20 Feet				B24 24 Feet			
Arc	Model	PSI	gpm	radius	Precip. ■	in/hr ▲	gpm	radius	Precip. ■	in/hr ▲	gpm	radius	Precip. ■	in/hr ▲	gpm	radius	Precip. ■	in/hr ▲	gpm	radius	Precip. ■	in/hr ▲	gpm	radius	Precip. ■	in/hr ▲	gpm	radius	Precip. ■	in/hr ▲
360°		20									1.7	9	2.02	2.33	2.4	11	2.40	1.91	3.4	12	2.27	2.62	4.2	13	2.39	2.76	6.2	16	2.33	2.69
	F	25									1.9	9	2.26	2.61	2.7	12	2.70	1.80	3.8	13	2.16	2.50	4.8	14	2.36	2.72	6.8	17	2.26	2.62
		30									2.1	11	1.67	1.93	3.0	12	3.00	2.01	4.2	13	2.39	2.76	5.3	15	2.27	2.62	7.5	18	2.23	2.57
180°		20	0.3	5	2.31	2.67	0.6	8	1.80	2.08	1.0	9	2.38	2.74	1.4	11	1.40	2.23	2.0	12	2.67	3.09	2.4	13	2.73	3.16	3.3	16	2.48	2.87
	H	25	0.3	6	1.60	1.85	0.7	8	2.11	2.43	1.1	9	2.61	3.02	1.6	12	1.60	2.14	2.3	13	2.62	3.03	2.7	14	2.65	3.06	3.5	17	2.33	2.69
		30	0.3	7	1.18	1.36	0.7	9	1.66	1.92	1.2	11	1.91	2.20	1.8	12	1.80	2.41	2.5	13	2.85	3.29	2.9	15	2.48	2.87	4.0	18	2.38	2.74
90°		20	0.3	5	4.62	5.33	0.3	8	1.80	2.08	0.5	9	2.38	2.74	0.7	11	0.70	2.23	1.0	12	2.67	3.09	1.2	13	2.73	3.16	1.8	16	2.71	3.13
	Q	25	0.3	6	3.21	3.70	0.4	8	2.41	2.78	0.6	9	2.85	3.29	0.8	12	0.80	2.14	1.1	13	2.51	2.89	1.4	14	2.75	3.18	1.9	17	2.53	2.92
		30	0.3	7	2.36	2.72	0.4	9	1.90	2.20	0.7	11	2.23	2.57	0.9	12	0.90	2.41	1.2	13	2.73	3.16	1.5	15	2.57	2.96	2.1	18	2.50	2.88
120°		20	0.3	5	3.47	4.00	0.4	8	1.80	2.08	0.7	9	2.50	2.88	1.0	11	1.00	2.39	1.3	12	2.61	3.01	1.6	13	2.73	3.16	2.2	16	2.48	2.87
	T	25	0.3	6	2.41	2.78	0.5	8	2.26	2.60	0.7	9	2.50	2.88	1.1	12	1.10	2.21	1.4	13	2.39	2.76	1.8	14	2.65	3.06	2.4	17	2.40	2.77
		30	0.3	7	1.77	2.04	0.6	9	2.14	2.47	0.8	11	1.91	2.20	1.2	12	1.20	2.41	1.6	13	2.73	3.16	2.0	15	2.57	2.96	2.7	18	2.41	2.78
240°		20					0.8	8	1.80	2.08	1.3	9	2.32	2.68	2.2	11	2.20	2.63	2.7	12	2.71	3.13	3.3	13	2.82	3.26	4.6	16	2.59	3.00
	TT	25					0.9	8	2.03	2.34	1.5	9	2.67	3.09	2.4	12	2.40	2.41	3.2	13	2.73	3.16	3.7	14	2.73	3.15	5.2	17	2.60	3.00
		30					1.0	9	1.78	2.06	1.7	11	2.03	2.34	2.6	12	2.60	2.61	3.5	13	2.99	3.45	4.1	15	2.63	3.04	5.7	18	2.54	2.93
270°		20	0.3	5	1.54	1.78	0.9	8	1.80	2.08	1.4	9	2.22	2.56	2.4	11	2.40	2.55	3.1	12	2.76	3.19	3.8	13	2.89	3.33	5.2	16	2.61	3.01
	TQ	25	0.3	6	1.07	1.23	1.0	8	2.01	2.32	1.6	9	2.53	2.93	2.6	12	2.60	2.32	3.5	13	2.66	3.07	4.3	14	2.82	3.25	5.5	17	2.44	2.82
		30	0.3	7	0.79	0.91	1.1	9	1.74	2.01	1.8	11	1.91	2.20	2.9	12	2.90	2.58	3.8	13	2.89	3.33	4.7	15	2.68	3.10	6.1	18	2.42	2.79
105°		20													0.8	11	0.80	2.18	1.1	12	2.52	2.91	1.4	13	2.73	3.16				
	105	25													1.0	12	1.00	2.29	1.3	13	2.54	2.93	1.6	14	2.69	3.11				
		30													1.1	12	1.10	2.52	1.5	13	2.93	3.38	1.8	15	2.64	3.05				
135°		20	0.3	5	3.08	3.56	0.5	8	2.01	2.32	0.7	9	2.22	2.56	1.0	11	1.00	2.12	1.5	12	2.67	3.09	1.8	13	2.73	3.16	2.5	16	2.51	2.89
	135	25	0.3	6	2.14	2.47	0.6	8	2.41	2.78	0.8	9	2.53	2.93	1.2	12	1.20	2.14	1.7	13	2.58	2.98	2.1	14	2.75	3.18	2.9	17	2.58	2.97
		30	0.3	7	1.57	1.81	0.6	9	1.90	2.20	0.9	11	1.91	2.20	1.4	12	1.40	2.50	1.9	13	2.89	3.33	2.3	15	2.62	3.03	3.2	18	2.53	2.93
165°		20													1.3	11	1.30	2.26	1.8	12	2.63	3.03	2.3	13	2.86	3.30				
	165	25													1.5	12	1.50	2.19	1.9	13	2.36	2.73	2.6	14	2.79	3.22				
		30													1.7	12	1.70	2.48	2.3	13	2.86	3.30	2.9	15	2.71	3.13				
195°		20									1.0	9	2.19	2.53	1.5	11	1.50	2.20	2.2	12	2.71	3.13	2.8	13	2.94	3.40	3.9	16	2.71	3.13
	195	25									1.1	9	2.41	2.79	1.7	12	1.70	2.10	2.5	13	2.63	3.04	3.2	14	2.90	3.35	4.4	17	2.71	3.12
		30									1.3	11	1.91	2.20	1.9	12	1.90	2.34	2.8	13	2.94	3.40	3.5	15	2.76	3.19	4.9	18	2.69	3.10
225°		20					0.7	8	1.68	1.95	1.3	9	2.47	2.85	2.0	11	2.00	2.55	2.5	12	2.67	3.09	3.0	13	2.73	3.16	4.3	16	2.59	2.99
	225	25					0.9	8	2.17	2.50	1.4	9	2.66	3.07	2.3	12	2.30	2.46	2.9	13	2.64	3.05	3.4	14	2.67	3.08	4.9	17	2.61	3.02
		30					0.9	9	1.71	1.98	1.6	11	2.04	2.35	2.6	12	2.60	2.78	3.2	13	2.92	3.37	3.8	15	2.60	3.00	5.4	18	2.57	2.96

Brass Nozzle Shrub Adapters

NO. 72
½" Copper

NO. 73
½" IPS

30° and Low Angle 15° Trajectory / Matched Precipitation

Max Spacing			B3 0,9 - 1,5 m				B10 3,0 m				B12 3,6 m				B15 4,4 m				B18 5,4 m				B20 6,0 m				B24 7,2 m			
Arc	Model	PSI	gpm	radius	Precip. ■	mm/hr ▲	gpm	radius	Precip. ■	mm/hr ▲	gpm	radius	Precip. ■	mm/hr ▲	gpm	radius	Precip. ■	mm/hr ▲	gpm	radius	Precip. ■	mm/hr ▲	gpm	radius	Precip. ■	mm/hr ▲	gpm	radius	Precip. ■	mm/hr ▲
360°		1,4									0,39	2,7	51	59	0,55	3,3	48	56	0,77	3,6	58	67	0,95	3,9	61	70	1,34	4,8	59	68
	F	1,7									0,43	2,7	57	66	0,61	3,6	46	53	0,86	3,9	55	63	1,09	4,2	60	69	1,41	5,1	58	66
		2,1									0,48	2,7	42	49	0,68	3,6	51	59	0,95	3,9	61	70	1,20	4,5	58	66	1,59	5,4	57	65
180°		1,4	0,07	1,5	59	68	0,14	2,4	46	53	0,23	2,7	60	70	0,32	3,3	57	65	0,45	3,6	68	78	0,55	3,9	69	80	0,75	4,8	63	73
	H	1,7	0,07	1,8	41	47	0,16	2,4	53	62	0,25	2,7	66	77	0,36	3,6	54	63	0,52	3,9	67	77	0,61	4,2	67	78	0,79	5,1	59	68
		2,1	0,07	2,1	30	35	0,16	2,7	42	49	0,27	3,3	48	56	0,41	3,6	61	71	0,57	3,9	72	84	0,66	4,5	63	73	0,91	5,4	60	70
90°		1,4	0,07	1,5	117	136	0,07	2,4	46	53	0,11	2,7	60	70	0,16	3,3	57	65	0,23	3,6	68	78	0,27	3,9	69	80	0,41	4,8	69	79
	Q	1,7	0,07	1,8	81	94	0,09	2,4	61	71	0,14	2,7	72	84	0,18	3,6	54	63	0,25	3,9	64	73	0,32	4,2	70	81	0,43	5,1	64	74
		2,1	0,07	2,1	60	69	0,09	2,7	48	56	0,16	3,3	57	65	0,20	3,6	61	71	0,27	3,9	69	80	0,34	4,5	65	75	0,48	5,4	63	73
120°		1,4	0,07	1,5	88	102	0,09	2,4	46	53	0,16	2,7	63	73	0,23	3,3	61	70	0,30	3,6	66	76	0,36	3,9	69	80	0,50	4,8	63	73
	T	1,7	0,07	1,8	61	71	0,11	2,4	57	66	0,16	2,7	63	73	0,25	3,6	56	65	0,32	3,9	61	70	0,41	4,2	67	78	0,55	5,1	61	70
		2,1	0,07	2,1	45	52	0,14	2,7	54	63	0,18	3,3	48	56	0,27	3,6	61	71	0,36	3,9	69	80	0,45	4,5	65	75	0,61	5,4	61	71
240°		1,4					0,18	2,4	46	53	0,30	2,7	59	68	0,50	3,3	67	77	0,61	3,6	69	79	0,75	3,9	72	83	1,04	4,8	66	76
	TT	1,7					0,20	2,4	52	60	0,34	2,7	68	78	0,55	3,6	61	71	0,73	3,9	69	80	0,84	4,2	69	80	1,18	5,1	66	76
		2,1					0,23	2,7	45	52	0,39	3,3	52	59	0,59	3,6	66	76	0,79	3,9	76	88	0,93	4,5	67	77	1,29	5,4	65	74
270°		1,4			39	45	0,20	2,4	46	53	0,32	2,7	56	65	0,55	3,3	65	75	0,70	3,6	70	81	0,86	3,9	73	85	1,18	4,8	66	76
	TQ	1,7			27	31	0,23	2,4	51	59	0,36	2,7	64	74	0,59	3,6	59	68	0,79	3,9	68	78	0,98	4,2	72	83	1,25	5,1	62	72
		2,1			20	23	0,25	2,7	44	51	0,41	3,3	48	56	0,66	3,6	66	76	0,86	3,9	73	85	1,07	4,5	68	79	1,39	5,4	61	71
105°		1,4													0,18	3,3	55	64	0,25	3,6	64	74	0,32	3,9	69	80				
	105	1,7													0,23	3,6	58	67	0,30	3,9	64	74	0,36	4,2	68	79				
		2,1													0,25	3,6	64	74	0,34	3,9	74	86	0,41	4,5	67	77				
135°		1,4	0,07	1,5	78	90	0,11	2,4	51	59	0,16	2,7	56	65	0,25	3,3	54	62	0,34	3,6	68	78	0,41	3,9	69	80	0,57	4,8	64	74
	135	1,7	0,07	1,8	54	63	0,14	2,4	61	71	0,18	2,7	64	74	0,27	3,6	54	63	0,39	3,9	66	76	0,48	4,2	70	81	0,66	5,1	65	76
		2,1	0,07	2,1	40	46	0,14	2,7	48	56	0,20	3,3	48	56	0,32	3,6	63	73	0,43	3,9	73	85	0,52	4,5	67	77	0,73	5,4	64	74
165°		1,4													0,30	3,3	57	66	0,41	3,6	67	77	0,52	3,9	73	84				
	165	1,7													0,34	3,6	56	64	0,43	3,9	60	69	0,59	4,2	71	82				
		2,1													0,39	3,6	63	73	0,52	3,9	73	84	0,66	4,5	69	79				
195°		1,4									0,23	2,7	56	64	0,34	3,3	56	65	0,50	3,6	69	80	0,64	3,9	75	86	0,89	4,8	69	79
	195	1,7									0,25	2,7	61	71	0,39	3,6	53	62	0,57	3,9	67	77	0,73	4,2	74	85	1,00	5,1	69	79
		2,1									0,30	3,3	48	56	0,43	3,6	60	69	0,64	3,9	75	86	0,79	4,5	70	81	1,11	5,4	68	79
225°		1,4					0,16	2,4	43	49	0,30	2,7	63	72	0,45	3,3	65	75	0,57	3,6	68	78	0,68	3,9	69	80	0,98	4,8	66	76
	225	1,7					0,20	2,4	55	64	0,32	2,7	68	78	0,52	3,6	62	72	0,66	3,9	67	78	0,77	4,2	68	78	1,11	5,1	66	77
		2,1					0,20	2,7	43	50	0,36	3,3	52	60	0,59	3,6	71	82	0,73	3,9	74	86	0,86	4,5	66	76	1,23	5,4	65	75

B Series Strip Nozzles

B Series Strip Nozzles

								METRIC				
		B10		B15				B10		B15		
Arc	PSI	gpm	W + L (ft)	gpm	W + L (ft)		BAR	m3/h	W + L (m)	m3/h	W + L (m)	
EST	20	.3	4 x 8	.6	4 x 11		1,4	0,07	1,2 x 2,4	0,14	1,2 x 3,4	
	25	.4	4 x 9	.7	4 x 12		1,7	0,09	1,2 x 2,7	0,16	1,2 x 3,7	
	30	.5	4 x 10	.8	4 x 13		2,1	0,11	1,2 x 3,0	0,18	1,2 x 4,0	
CST	20	.7	4 x 16	1.4	4 x 22		1,4	0,16	1,2 x 4,8	0,32	1,2 x 6,7	
	25	.8	4 x 18	1.6	4 x 24		1,7	0,18	1,2 x 5,5	0,36	1,2 x 6,9	
	30	.9	4 x 20	1.8	4 x 26		2,1	0,20	1,2 x 6,1	0,41	1,2 x 7,9	
SST	20	.7	4 x 16	1.4	4 x 22		1,4	0,16	1,2 x 4,8	0,32	1,2 x 6,7	
	25	.8	4 x 18	1.6	4 x 24		1,7	0,18	1,2 x 5,5	0,36	1,2 x 6,9	
	30	.9	4 x 20	1.8	4 x 26		2,1	0,20	1,2 x 6,1	0,41	1,2 x 7,9	

100Series

FEATURES

- 100 Series shrub nozzles performance is identical to B Series brass nozzles.
- "Effective Radius" (see footnote 3) is provided to illustrate the excellent distribution profile of the nozzle series. Minor difference between "ER" and radius demonstrates the slope of distribution at the outer limits of coverage. This eliminates the requirement of "head-to-head" spacing.
- Fits No. 92 and 93 shrub adapters.

NO. 92 SHRUB ADAPTER

- Solder connection adapts all 100 Series part circle shrub nozzles to ½" copper tube risers

NO. 93 SHRUB ADAPTER

- Adapts all 100 Series part circle shrub nozzles to ½" IPS risers

NO. 901 SHRUB RISER EXTENSION

3" (7,6 cm) length

Fits 100 Series Nozzles and No. 92 and 93 adapters

Standard 10° Low Angle Spray Trajectory / Matched Precipitation

Nozzle		3 - 5' Spacing (varies with application)				10' Max Spacing 1				12' Max Spacing 1				15' Max Spacing 1				18' Max Spacing 1				20' Max Spacing 1			
Arc	PSI	No.	gpm	radius 2	ER 3	No.	gpm	radius 2	ER 3	No.	gpm	radius 2	ER 3	No.	gpm	radius 2	ER 3	No.	gpm	radius 2	ER 3	No.	gpm	radius 2	ER 3
180°	20	100H	.3	5	4	110H	.6	8	7	112H	1.0	9	8	115H	1.4	11	10	118H	2.0	12	11	120H	2.4	13	12
	25		.3	6	5		.7	8	7		1.1	9	8		1.6	12	10		2.3	13	12		2.7	14	13
	30		.3	7	5		.7	9	8		1.2	11	9		1.8	12	11		2.5	13	12		2.9	15	14
90°	20	100Q	.3	5	4	110Q	.3	8	7	112Q	.5	9	8	115Q	.7	11	10	118Q	1.0	12	11	120Q	1.2	13	12
	25		.3	6	5		.4	8	7		.6	9	8		.8	12	10		1.1	13	12		1.4	14	13
	30		.3	7	5		.4	9	8		.7	11	9		.9	12	11		1.2	13	12		1.5	15	14
120°	20	100A	.3	5	4									115A	1.0	11	10					120A	1.6	13	12
	25		.3	6	5										1.1	12	10						1.8	14	13
	30		.3	7	5										1.2	12	11						2.0	15	14
240°	20	100E	.3	5	4	110E	.9	8	7	112E	1.4	9	8					118E	3.1	12	11	120E	3.8	13	12
	25		.3	6	5		1.0	8	7		1.6	9	8						3.5	13	12		4.3	14	13
	30		.3	7	5		1.1	9	8		1.8	11	9						3.8	13	12		4.7	15	14

Metric

Nozzle		0,9 - 1,5m Spacing (varies with application)				3,0m Max Spacing 1				3,6m Max Spacing 1				4,4m Max Spacing 1				5,4m Max Spacing 1				6,0m Max Spacing 1			
Arc	PSI	No.	m3/h	radius 2	ER 3	No.	m3/h	radius 2	ER 3	No.	m3/h	radius 2	ER 3	No.	m3/h	radius 2	ER 3	No.	m3/h	radius 2	ER 3	No.	m3/h	radius 2	ER 3
180°	1,4	100H	0,07	1,5	1,2	110H	0,14	2,4	2,1	112H	0,23	2,7	2,4	115H	0,32	3,3	3,0	118H	0,45	3,6	3,3	120H	0,55	3,9	3,6
	1,7		0,07	1,8	1,5		0,16	2,4	2,1		0,25	2,7	2,4		0,36	3,6	3,0		0,52	3,9	3,6		0,61	4,2	3,9
	2,1		0,07	2,1	1,5		0,16	2,7	2,4		0,27	3,3	2,7		0,41	3,6	3,3		0,57	3,9	3,6		0,66	4,5	4,2
90°	1,4	100Q	0,07	1,5	1,2	110Q	0,07	2,4	2,1	112Q	0,11	2,7	2,4	115Q	0,16	3,3	3,0	118Q	0,23	3,6	3,3	120Q	0,27	3,9	3,6
	1,7		0,07	1,8	1,5		0,09	2,4	2,1		0,14	2,7	2,4		0,18	3,6	3,0		0,25	3,9	3,6		0,32	4,2	3,9
	2,1		0,07	2,1	1,5		0,09	2,7	2,4		0,16	3,3	2,7		0,20	3,6	3,3		0,27	3,9	3,6		0,34	4,5	4,2
120°	1,4	100A	0,07	1,5	1,2									115A	0,23	3,3	3,0					120A	0,36	3,9	3,6
	1,7		0,07	1,8	1,5										0,25	3,6	3,0						0,41	4,2	3,9
	2,1		0,07	2,1	1,5										0,27	3,6	3,3						0,45	4,5	4,2
240°	1,4	100E	0,07	1,5	1,2	110E	0,20	2,4	2,1	112E	0,32	2,7	2,4					118E	0,70	3,6	3,3	120E	0,86	3,9	3,6
	1,7		0,07	1,8	1,5		0,23	2,4	2,1		0,36	2,7	2,4						0,79	3,9	3,6		0,98	4,2	3,9
	2,1		0,07	2,1	1,5		0,25	2,7	2,4		0,41	3,3	2,7						0,86	3,9	3,6		1,07	4,5	4,2

1 Maximum triangular spacing. Climate, wind and nozzle performance should be considered for design spacing. Example: many designers de-rate spacing by using 90% of maximum for average site conditions.

2 Listed radius determined by ASAE industry standard measurement of .01" (0,3 mm) per hour. Nozzle mounted on 12" (30 cm) riser.

3 ER "Effective Radius" indicates the most distant point at which .25" (6 mm) per hour precipitation will occur within the area of coverage.

- For full circle shrub heads, specify B Series nozzles.
- Precipitation: 1.2" (31 mm) per hour for half circle / 20 PSI (1,4 BAR) / maximum spacing.

Bubblers & Bed Sprays

NO. 106 PRESSURE COMPENSATING BUBBLER

NO. 106 SERIES

No. 106 provides a soft, bubbling action for deep soaking. Ideal for planter boxes, tree wells or similar areas when proper drainage is available.

FEATURES

- Pressure compensating bubbler with trickle pattern
- Inlet filter screen to prevent clogging
- Durable engineering-grade plastic construction
- Available in ½ GPM and 1 GPM discharge models
- Application for tree wells and bed areas

CONSTRUCTION

- Durable ABS plastic housing. Pressure compensating device is made of long life Buna-N rubber
- (1/2" IPS connection)

OPERATING RANGE

Flow:	.5 – 1.0 GPM	1,9 – 3,8 lpm
Spacing:	1 – 3'	0,3 – 0,9 m
Pressure:	15 – 45 PSI	1,1 – 3,2 Kg/cm2

Pressure Compensating Bubbler Specification

Model	Description
106-50	.5 GPM
106-100	1.0 GPM

NO. 102 & 133 ADJUSTABLE BUBBLERS

NO. 102 & 133 SERIES

No. 102 and 133 are the perfect choice for all applications where economy and/or higher flows are required. Ideal for planter boxes, tree wells or similar areas when proper drainage is available.

FEATURES

- Umbrella pattern, full circle bubbler
- Durable engineering-grade plastic construction
- Inlet filter screen to prevent clogging
- Application for free wells and bed areas

CONSTRUCTION

- Durable ABS plastic housing with stainless steel adjustment screw
- (1/2" IPS connection)

OPERATING RANGE

Flow:	1.1 – 2.3 gpm	0,25 – 0,52 m³/h
Spacing:	1 – 3'	0,3 – 0,9 m
Pressure:	10 – 60 PSI	1,1 – 4,2 BAR

Adjustable Bubbler Specification

Model	Description
102	Screwdriver adjustment
103	Knob adjustment

No. 102 & 133 Performance Data

Pressure		Flow			
		Min*		Max	
PSI	kg/cm2	gpm	lpm	gpm	lpm
20	1,4	1.3	4,9	3.0	11,4
30	2,2	1.6	6,1	4.0	15,1
45	3,2	2.0	7,6	4.5	17,0

* Flow rate for factory adjusted setting.

NO. 105 BED SPRAY NOZZLE

FEATURES

- The No. 105 provides a fixed, horizontal (flat) spray
- Full circle only
- This head is ideally suited for smaller, special treatment areas
- Fits No. 92 and 93 shrub adapters
- Note: diameter of coverage is based on head mounted 6" (15 cm) above grade

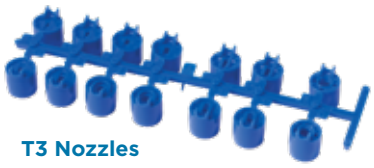
No. 105 Bed Spray Nozzle

Nozzle	Type	PSI	Dia. (ft.)	gpm	BAR	Metric Dia. (m)	m3/h
●	Full	10	11	0.9	0,70	3,3	0,20
●	Full	15	13	1.1	1,00	3,9	0,25
●	Full	18	14	1.2	1,25	4,2	0,27

T3 Turbo

T3S

T3 T3SS



T3 Nozzles

T3 Turbo Specifications	
Model	**Type**
T3	Adjustable arc
T3-36	Full circle
T3S	Ajustable arc shrub rotor
T3SS	Stainless steel full circle
T3-36SS	Stainless steel pop-up full circle

T3/T35 Operating Range		
Precipitation Rate	**Approx. 0.4 - 0.6" per hour @ 50 PSI**	**Metric 10 - 15 mm per hour @ 3,5 BAR**
Radius	23 - 61'	7,0 - 18,6 m
Pressure	20 - 70 PSI	1,4 - 4,8 BAR
Flow	0.5 - 14.9 gpm	0,11 - 3,39 m3/h

FEATURES

- 5 year warranty and 100% water tested
- Thick, vandal resistant rubber cover is standard; visible arrows indicate + or – arc adjustment
- Radius adjustment screw decreases radius up to 25%
- "Punch-thru" cover to protect nozzle retaining screw from debris
- Easy-grip threaded cover
- 14 field-changeable nozzles – SmartAngle (low angle) and Flow+ included
- Safety clutch for vandal protection; ratchets like a sprayhead
- Part circle models adjust from 40 – 360°; no tools required
- Expanded "arc dwell" on part circle models provides full coverage along borders
- Pressure activated wiper seal and strong stainless steel spring on pop-up models to ensure positive retraction
- High-tech micro filter protects reversing mechanism
- Streamlined large flow tube to minimize pressure loss through sprinkler
- Impeller flow regulator automatically matches rotation to nozzle selection
- Smooth impeller gear drive for highly uniform watering
- Large area, basket type, removable strainer for debris protection
- Standard Ready Check™ check valve on T3 and T35 models is easily reversed in the field to a "check" position. Check valve holds back 12'
  (3,7 m/hd) of elevated water.

CONSTRUCTION

- High-strength non-corrosive plastics and metals used throughout sprinkler
- Sealed, lubricant packed drive housing provides long life performance
- Options (factory installed)
- Non-potable cover (add "N" suffix)
- Vandal cover lock (add "XV" prefix)
- Check valve in "check" position (add "CV" prefix)

ACCESSORIES

T3ST Nozzle install collar

T3 DIMENSIONS

Height (closed): 7 5⁄8" (19,4 cm)

Pop-up Height: 4" (10,2 cm)

Inlet: ¾" IPS

T3S SHRUB DIMENSIONS

Height 8 3⁄16" (20,8 cm) Inlet: ¾" IPS

T35Turbo

T35

T35SS

T35 Nozzles

T35 DIMENSIONS

Height (closed): 8 13/16" (22,4 cm)

Pop-up Height: 4" (10,2 cm)

Inlet: 1" IPS

T3 / T35 Performance

Nozzle	Pressure PSI	Radius ft.	Flow gpm	Precip. in/hr ■	Precip. in/hr ▲	Pressure BAR	Radius m	Metric Flow m3/hr	Precip. mm/hr ■	Precip. mm/hr ▲
Standard Angle 26° Trajectory										
1	30	28	0.7	0.17	0.20	2,1	8,5	0,16	4	5
	40	32	0.8	0.15	0.17	2,8	9,8	0,18	4	4
	50	33	0.9	0.16	0.18	3,4	10,1	0,20	4	5
	60	33	1.0	0.18	0.20	4,1	10,1	0,23	4	5
1.5	30	31	1.0	0.20	0.23	2,1	9,4	0,23	5	6
	40	35	1.4	0.19	0.22	2,8	10,7	0,27	5	6
	50	36	1.6	0.24	0.27	3,4	11,0	0,36	6	7
	60	36	1.8	0.27	0.31	4,1	11,0	0,41	7	8
2	30	28	1.2	0.29	0.34	2,1	8,5	0,27	7	9
	40	35	1.4	0.22	0.25	2,8	10,7	0,32	6	6
	50	35	1.9	0.30	0.34	3,4	10,7	0,43	8	9
	60	35	2.3	0.36	0.42	4,1	10,7	0,52	9	11
3	30	30	1.7	0.36	0.42	2,1	9,1	0,39	9	11
	40	38	2.0	0.27	0.31	2,8	11,6	0,45	7	8
	50	39	2.4	0.30	0.35	3,4	11,9	0,55	8	9
	60	41	2.8	0.32	0.37	4,1	12,6	0,64	8	9
3.5	40	41	3.5	0.40	0.46	2,8	12,5	0,79	10	12
	50	42	3.7	0.40	0.47	3,4	12,8	0,84	10	12
	60	43	4.3	0.45	0.52	4,1	13,1	0,98	11	13
4	40	44	4.0	0.40	0.46	2,8	13,4	0,91	10	12
	50	45	4.3	0.41	0.47	3,4	13,7	0,98	10	12
	60	46	5.0	0.45	0.53	4,1	14,0	1,14	11	13
6	40	45	5.5	0.52	0.60	2,8	13,7	1,25	13	15
	50	46	6.3	0.57	0.66	3,4	14,0	1,43	15	17
	60	47	6.9	0.60	0.69	4,1	14,3	1,57	15	18
8	40	45	6.3	0.60	0.69	2,8	13,7	1,43	15	18
	50	47	7.5	0.65	0.75	3,4	14,3	1,70	17	19
	60	51	8.1	0.60	0.69	4,1	15,5	1,84	15	18
SmartAngle 13° Low angle Trajectory										
2.0LA	30	29	1.6	0.37	0.42	2,1	8,8	0,36	9	11
	40	33	1.9	0.34	0.39	2,8	10,1	0,43	9	10
	50	34	2.1	0.35	0.40	3,4	10,4	0,48	9	10
2.5LA	30	31	2.1	0.42	0.49	2,1	9,4	0,48	11	12
	40	35	2.6	0.41	0.47	2,8	10,7	0,59	10	12
	50	36	2.9	0.43	0.50	3,4	11,0	0,66	11	13
3.5LA	30	31	2.7	0.54	0.62	2,1	9,4	0,61	14	16
	40	35	3.2	0.50	0.58	2,8	10,7	0,73	13	15
	50	37	3.5	0.49	0.57	3,4	11,3	0,79	13	14
4.5LA	30	33	3.0	0.53	0.61	2,1	10,1	0,68	13	16
	40	37	3.4	0.48	0.55	2,8	11,3	0,77	12	14
	50	37	4.1	0.58	0.67	3,4	11,3	0,93	15	17
Flow+ Nozzles 26° Trajectory										
9	50	50	9.5	0.73	0.84	3,4	15,2	2,16	19	21
	60	54	10.8	0.71	0.82	4,1	16,5	2,45	18	21
	70	55	11.7	0.74	0.86	4,8	16,8	2,66	19	22
13	50	57	12.4	0.73	0.85	3,4	17,4	2,82	19	22
	60	59	13.8	0.76	0.88	4,1	18,0	3,13	19	22
	70	61	14.9	0.77	0.89	4,8	18,6	3,38	20	23

■ Square spacing based on 50% of diameter
▲ Triangular spacing based on 50% of diameter
Note: All precipitation rates are calculated for 180° operation.
Divide by 2 for full circle precipitation rates

T35 Turbo Specifications

Model	Type	International Model
T35	Pop-up adjustable arc	T35-ISO
T35-36	Pop-up full circle	T35-36-ISO
T35-SS	Stainless steel pop-up adj. arc	T35-SS-ISO
T35-36SS	Stainless steel pop-up full circle	T35-36SS-ISO

CT70

FEATURES

- 5 year trade warranty and 100% water tested
- Thick, vandal resistant rubber cover is standard; visible arrows indicate
- + or – arc adjustment
- Radius adjustment screw decreases radius up to 25%
- “Punch-thru” cover to protect nozzle retaining screw from debris
- Easy grip threaded cover
- 5 field changeable nozzles
- Safety clutch for vandal protection; ratchets like a sprayhead
- Part circle models adjust from 40 – 360°; no tools required
- Expanded “arc dwell” on part circle models provides full coverage along borders
- Pressure activated wiper seal and strong stainless steel spring on pop-up models to ensure positive retraction
- High-tech micro filter protects reversing mechanism
- Streamlined large flow tube to minimize pressure loss through sprinkler
- Impeller flow regulator automatically matches flow to nozzle selection
- Smooth impeller gear drive for highly uniform watering
- Large area, basket type, removable strainer for debris protection
- Standard Ready Check™ check valve on CT70 and CT70-36 models is easily reversed in the field to a “check” position. Check valve holds back 15’ (4,6 m/hd) of elevated water

CT70

CT70SS

CT70 Nozzles

CONSTRUCTION

- High-strength non-corrosive plastics and metals used throughout sprinkler
- Sealed, lubricant packed drive housing provides long life performance

OPTIONS (FACTORY INSTALLED)

- Non-potable cover (add “N” suffix)
- Vandal cover lock (add “XV” prefix)

ACCESSORIES

T3ST Nozzle install collar

DIMENSIONS

Height (closed): 8 13⁄16(22,4 cm)

Pop-up Height: 4” (10,2 cm)

Inlet: 1” IPS (specify ISO for international)

Exposed Top Diameter: 1 ¾” (4,4 cm)

CT70 Specifications

Model	Type	International Model
CT70	Adjustable arc	CT70-ISO
CT70-36	Full circle	CT70-36-ISO
CT70SS	Stainless steel, adjustable arc	CT70SS-ISO
CT70SS-36	Stainless steel, full circle	CT70SS-36-ISO

CT70 Performance

Nozzle	Pressure PSI	Radius* ft.	Flow gpm	Precip. in/hr ■	Precip. in/hr ▲	Pressure BAR	Radius* m	Metric Flow m3/hr	Precip. mm/hr ■	Precip. mm/hr ▲
71	40	49	8.1	0.65	0.75	2,8	14,9	1,84	17	19
	50	51	9.1	0.67	0.78	3,4	15,5	2,07	17	20
	60	53	10.0	0.69	0.79	4,2	16,2	2,27	17	20
	70	55	11.0	0.70	0.81	4,8	16,8	2,50	18	21
	80	56	11.8	0.72	0.84	5,5	17,0	2,68	18	21
72	50	54	10.7	0.71	0.82	3,4	16,5	2,43	18	21
	60	55	11.8	0.75	0.87	4,2	16,8	2,68	19	22
	70	57	12.6	0.75	0.86	4,8	17,4	2,86	19	22
	80	58	13.8	0.79	0.91	5,5	17,7	3,13	20	23
73	50	57	14.0	0.83	0.96	3,4	17,4	3,18	21	24
	60	58	15.3	0.88	1.01	4,2	17,7	3,48	22	26
	70	60	16.8	0.90	1.04	4,8	18,3	3,82	23	26
	80	61	17.8	0.92	1.06	5,5	18,6	4,04	23	27
74	60	59	16.6	0.92	1.06	4,2	18,0	3,77	23	27
	70	62	18.1	0.91	1.05	4,8	18,9	4,11	23	27
	80	63	19.2	0.93	1.08	5,5	19,2	4,36	24	27
	90	65	20.4	0.93	1.07	6,2	19,8	4,63	24	27
75	60	66	22.5	0.99	1.15	4,2	20,1	5,11	25	29
	70	67	24.7	1.06	1.22	4,8	20,4	5,61	27	31
	80	72	26.5	0.98	1.14	5,5	21,9	6,02	25	29
	90	74	28.0	0.98	1.14	6,2	22,6	6,36	25	29

Nozzle trajectory: 26°

*Radius of coverage shown is for still air with no diffusion. Maximum radius reduction with diffuser screw is 25%.

Note: Performance data derived from tests that conform to ASAE Standard S398.1.

Note: see page 65 for spacing and precipitation rate formulas.

STATEMENT OF TRADE WARRANTY

The Irrigation Professionals Protection Package from Weathermatic

10 Years 11000CR and 8200CR Series valves and S24B solenoids

5 Years Rotors, spray equipment, nozzles, 21000 Series valves and S20P solenoids

2 Years N-100 and 12000 Series Valves; SmartLine® and SmartLink® products and all other catalogued products not specifically listed, or under the 5 or 10 year extended warranties. ProLine and SmartLine® controllers, SLW weather stations and SmartLink® products are covered under warranty for lightning damage.

All trade warranties are effective from the original date of sale. The trade warranties extend only to the original professional installer of the Weathermatic products and do not extend to repairs, replacements or adjustments of Weathermatic products due to misuse, negligence, alteration, modification, tampering or improper installation and maintenance of the product and/or system. Contact your local Weathermatic authorized distributor for all warranty claims.

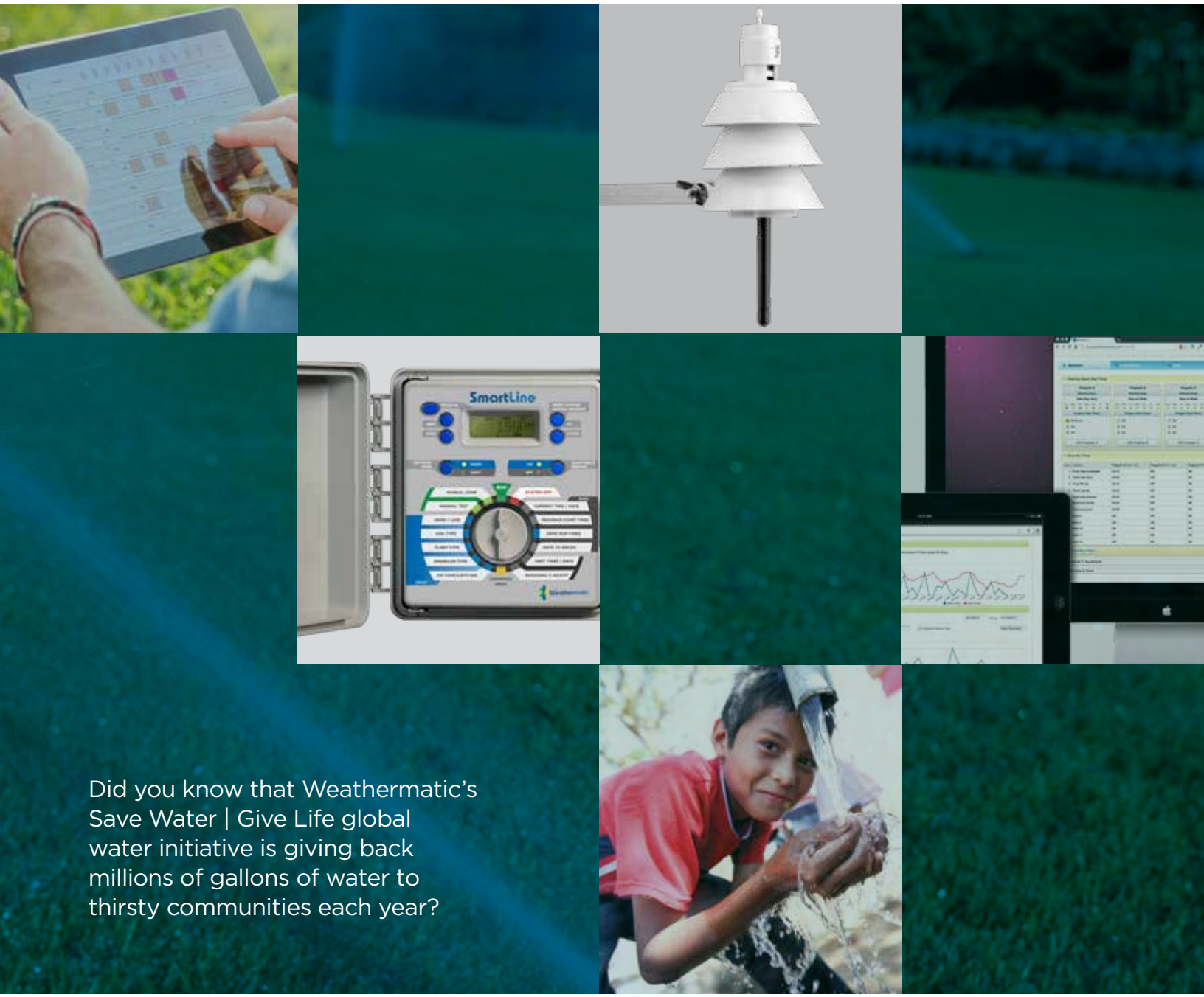
Weathermatic's obligation is to repair or replace its products found to have defects in material or workmanship. There are no other warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose. Weathermatic will not be liable to any party in strict liability, tort, contract or any other manner for damages caused or claimed to be caused as a result of any design or defect in Weathermatic's products, or any special incidental or consequential damages of any nature.

PRODUCT CHANGES

Weathermatic reserves the right to alter, modify or redesign its products, pricing and warranty at all times without creating any liability for the obsolescence of customer inventory of such parts or products.

ASAE CERTIFICATION STATEMENT

Weathermatic certifies that pressure, flow rate and radius data for these products were determined and listed in accordance with ASAE Standard S398.1, Procedure for 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.



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