

CONTROLLER COMPARISON

All Controllers Backed
By A 5-Year Warranty



	Junior DC™	KD2™	Rain Dial®-R
On Page#	3	5	7
Stations	1, 4	4, 6, 9	6, 9, 12
Programs	2	3	3
Start Times	6	9	9
Indoor Location	●	●	●
Outdoor Location	●	●	●
Water Budgeting	●	●	●
Electronic Circuit Breaker		●	●
Automatic, ET-Based		Climate Logic®	Climate Logic
App-Based Control		SMRT Logic®	SMRT Logic
Remote Ready		●	●
Climate Logic Compatible		●	●



PRO
NLY

Commercial Controllers



	Total Control®-R	MC-E "Blue"	Eagle™	Eagle Plus
On Page#	9	11	13	15
ET-Based Water Savings	Climate Logic	Climate Logic	●	●
Central Control Compatible	SMRT Logic	SMRT Logic	i-Central™	i-Central
Weather Station Interface	Climate Logic	Climate Logic	Weather Center™	Weather Center
Maximum Stations	48	48	36	200*
Number Of Programs	4	8	4	16*
Number Of Start Times	16	64	20	128*
Mximum Station Runtime	10 hrs	10 hrs	9:59 hh:mm	23:59 hh:mm
Inter-Station Delay Time	●	●	1-255 Sec	1-1199 Sec
Odd/Even Day Watering	●	●	●	●
Water Budget (%)	0-200%	0-255%	0-300%	0-300%
Cycle & Soak Programming			●	●
Skip Day Program Option	●	●	●	●
Programmable Rain Delay	1-14 Days	1-14 Days	1-7 Days	1-14 Days
Rain/Freeze Sensor Input	●	●	●	●
Audible Malfunction Alert		●	●	●
Station High Flow Monitoring	●	●	●	●
Main Line Flow Monitoring	●	●	●	●
Station No Flow Alert				
Rain Sensor By Program			●	●
Built-In Remote Interface			●	●
TWICE-2 Wire Compatible				●



JUNIOR DC™ SERIES

1 & 4 STATION OUTDOOR/INDOOR

Key Features

- Battery operated (9v not included)
- Waterproof tested (IP68)
- Compatible with wired RainSensor™ (RS500)
- 1-station and 4-station models
- Valve-mount and wall-mount brackets included
- Program stacking (prevents overlapping operations)
- Program erase and total erase functions
- "Off" setting for rainy weather
- Low battery indicator

Models

Model	Description
JRDC-1	1-station
JRDC-4	4-station



Specifying Information



MODEL	CONNECTION
JRDC - Junior DC	1 - 1 station 4 - 4 station

Example: A 4 station Junior DC controller = **JRDC-4**

KD2™ SERIES



4, 6, & 9 STATION OUTDOOR/INDOOR

Key Features

- Compatible with SMRT Logic® for 2-way cloud control through SMRTscape™ (page. 25)
- Simple & familiar dial-based programming
- Large LCD displays status of programs scheduled to run each day
- Non-volatile memory maintains programming information in the absence of AC power
- Priced for value as a professional-quality residential controller
- Locking (outdoor models)

Models

Model	Description
KD400-EXT	4-Station Outdoor
KD600-EXT	6-Station Outdoor
KD900-EXT	9-Station Outdoor
KD400-INT	4-Station Indoor
KD600-INT	6-Station Indoor
KD900-INT	9-Station Indoor



Outdoor Model

Indoor Model



SMRT LOGIC
COMPATIBLE
For 2-Way Programmability
See Page 25

Specifying Information

KD - XXX - XXX

MODEL	NUMBER OF STATIONS	CONFIGURATION
KD - KD2 Series	400 - 4 Station	EXT - Outdoor
	600 - 6 Station	INT - Indoor
	900 - 9 Station	

Example: A KD2 9 station, outdoor model = **KD900-EXT**

*EPA WaterSense® Certified when used with Irritrol® Climate Logic®





SPECIFICATIONS



Operating Specifications

- (3) independent programs
- Station run times: 1-240 minutes (4 hours) in 1-minute increments
- (3) start times per program

Programming features:

- Automatic, semi-automatic (manual program) & manual station(s) operation
- Programmable "Rain Off" up to seven days
- "All stations" test program
- Water budgeting program (0-200% in 10% increments)



Electrical Specifications

- Transformer input: 120 V AC, 60HZ (220/240 V AC, 50 Hz)
- Transformer output: 24 V AC, 1.250 amps
- Maximum output per station: 24 V AC, .4 amp
- Maximum total output: 24 V AC, .8 amp (including master valve)
- Battery backup for "armchair" programming and keeping current time and date: 9-volt alkaline (*not included*)
- Capacity: (1) station valve plus a master valve (or 24 V AC pump start relay) on at a time
- UL and CUL listed



- 1 Any-day-of-the-week watering
- 2 Odd/Even day watering
- 3 Day interval watering from 1-31 days
- 4 Up to 3-starts per day per program



Dimensions

- Outdoor/Indoor:
H: 8", W: 6", D: 4 1/2"



Optional Accessories

- A** SMRT Logic Bundle (SMRT-CLMR-KIT)
- B** Wireless RainSensor (R[F]S1000)
- C** Wired RainSensor (RS500)
- D** CRR Remote Series (R-100-KIT)
- E** Climate Logic (CL-100-Wireless)
- F** SR-1 Pump Start Relay



RAIN DIAL® - R SERIES



Certified by ICC-ES*

6, 9 & 12 STATION OUTDOOR/INDOOR

Key Features

- 365-Day calendar
- Water budgeting
- Programmable delay between stations
- Global functions
- Compatible with SMRT Logic® for 2-way cloud control through SMRTscape™ (page. 25)

Models

Model	Description
RD600-EXT-R	6-Station, Outdoor
RD900-EXT-R	9-Station, Outdoor
RD1200-EXT-R	12-Station, Outdoor
RD600-INT-R	6-Station, Indoor
RD900-INT-R	9-Station, Indoor
RD1200-INT-R	12-Station, Indoor
RD6-MOD-R	Module assembly, 6-Station
RD9-MOD-R	Module assembly, 9-Station
RD12-MOD-R	Module assembly, 12-Station



**"The Rain Dial® is user friendly—Easy to program and hand off to my clients
Easy to explain if a client has a question over the phone"**

—K. Derby

Pacific Sun Pool & Spa - San Diego, CA



SMRT LOGIC

COMPATIBLE

For 2-Way Programmability

See Page 25

Specifying Information



MODEL	NUMBER OF STATIONS	CONFIGURATION	
RD - RAIN DIAL	600 - 6 Station 900 - 9 Station 1200 - 12 Station	EXT - Outdoor INT - Indoor MOD - Module	R - Rain sensor ready

Example: A Rain Dial 6 station, outdoor model = **RD600-EXT-R**

*EPA WaterSense® Certified when used with Irritrol® Climate Logic®





Dimensions

Outdoor/Indoor: H: 7 3/4", W: 10 3/4", D: 4"



SPECIFICATIONS



Operating Specifications

- (3) independent programs
- (3) start times per program
- Multiple watering day options
- Station run times: 1-59 minutes in 1-minute increments or 1-5.9 hours in .1-hour (6 minute) increments

Programming features:

- Watering schedules per program:
 - Days of the week
 - Skip Days (Internal)
 - Odd/Even by date



Electrical Specifications

- Transformer input: 120V AC, 60Hz (220/240V AC, 50Hz available internationally)
- Transformer output: 24V AC, 1.25 amps
- Maximum output per station: 24V AC, .5 amps
- Maximum output to valves: 24V AC, 1.0 amps (including master valve/pump start circuit)
- Battery backup for "armchair" programming and keeping current time and date: 9-volt alkaline (*not included*)
- UL and CSA listed

Optional Accessories

- A** SMRT Logic Bundle (SMRT-CLMR-KIT)
- B** Wireless RainSensor (R(F)S1000)
- C** Wired RainSensor (RS500)
- D** CRR Remote Series (R-100-KIT)
- E** Climate Logic (CL-100-Wireless)
- F** SR-1 Pump Start Relay



TOTAL CONTROL[®]-R SERIES



Certified by ICC-ES*

6, 9, 12, 15, 18, 24, 36 & 48* STATION OUTDOOR/INDOOR

Key Features

- User-friendly, 10-position programming dial and large, easy-to-read display
- Start time stacking within each program
- Industrial surge protection (on both input & output lines)
- Self-diagnostic circuit breaker
- Automatic, semi-auto, manual & timed-manual operation
- Sensor hookup with bypass switch
- Non-volatile memory



Models

Model	Description
TC-6EX-R	6-Station Outdoor
TC-9EX-R	9-Station Outdoor
TC-12EX-R	12-Station Outdoor
TC-15EX-R	15-Station Outdoor
TC-18EX-R	18-Station Outdoor
TC-24EX-R	24-Station Outdoor
TC-12EXM-R	12-Station Outdoor (MC)
TC-18EXM-R	18-Station Outdoor (MC)
TC-24EXM-R	24-Station Outdoor (MC)
TC-36EXM-R	36-Station Outdoor (MC)
TC-48EXM-R	48-Station Outdoor (MC)
TC-6IN-R	6-Station Indoor
TC-9IN-R	9-Station Indoor
TC-12IN-R	12-Station Indoor
TC-6MOD-R	Module Assembly, 6-Station
TC-9MOD-R	Module Assembly, 9-Station
TC-12MOD-R	Module Assembly, 12-Station
TC-15MOD-R	Module Assembly, 15-Station
TC-18MOD-R	Module Assembly, 18-Station
TC-24MOD-R	Module Assembly, 24-Station
TC-36MOD-R	Module Assembly, 36-Station
TC-48MOD-R	Module Assembly, 48-Station

MC= Metal Cabinet



12, 18, 24, 36 & 48 Station Models Available In Metal Cabinets



SMART LOGIC
COMPATIBLE
For Remote Programmability
See Page 25

Specifying Information

TC - XX - XXX - R

MODEL	STATIONS	CONFIGURATION	
TC - TOTAL CONTROL	6 - 6 Station 9 - 9 Station 12 - 12 Station 15 - 15 Station 18 - 18 Station 24 - 24 Station 36 - 36 Station 48 - 48 Station	EX - Outdoor IN - Indoor MOD - Module EXM - Outdoor, metal cabinet	R - Remote control ready

Example: A Total Control 12 station, outdoor model = **TC-12EX-R**

*EPA WaterSense® Certified when used with Irritrol® Climate Logic®





Dimensions

Outdoor/Indoor: H: 8½", W: 10 ½", D: 5"
 Metal: (12, 18 & 24-station)
 H: 10¾", W: 9¾", D: 5¾"
 Metal: (36 & 48-station)
 H: 15 ¾", W: 10 ¾", D: 5 ¾"



Electrical Specifications

Outdoor/Indoor

- Transformer input: 120 V AC, 60 Hz
(220/240 V AC, 50 Hz)
- Transformer output: 24 V AC, 1.67 amps



Operating Specifications

- (4) independent programs
- (16) start times assignable to any program
- Station run times: 1 minute to 10 hours in 1-minute increments
- Water budgeting:
10-200% in 10% increments

Programming features:

- (7) day calendar, odd/even day watering or day-interval options from one to (30) days
- Programmable master valve
- Excluded-day function, when used with the odd/even date option, allows selection of specific day(s) not to water



Electrical Specifications

- Electronic circuit breaker:
1.25 amps (Min. hold)
- Maximum output per station:
24 V AC, .5 amp
- Maximum output to valves: 24 V AC, 1.25 amps (including master valve)
- Battery backup: 9-volt alkaline battery
- UL & CSA listed
(All models up to 18-stations)
- UL & CUL listed
(24, 36, & 48-station models)



Optional Accessories

- A** SMRT Logic Bundle (SMRT-CLMR-KIT)
- B** Wireless RainSensor (R[F]\$1000)
- C** Wired RainSensor (RS500)
- D** CRR Remote Series (R-100-KIT)
- E** Climate Logic (CL-100-Wireless)
- F** SR-1 Pump Start Relay

CONTROLLER ENHANCEMENT COMPARISON

RAIN SENSOR

RAIN SENSOR

RAIN & FREEZE
SENSOR

WEATHER SENSOR



25' Wire



RS500



RS1000



RFS1000



Climate Logic®

On Page#	21	21	21	23
Transmission Range (line-of-sight)	N/A	Up To 500'	Up To 500'	1000'
Rainfall Adjustment (1/8" - 3/4")	●	●	●	●
Wireless		●	●	●
Auto Resetting Bypass		●	●	
Power Failure Protection		●	●	●
Digital Freeze Sensor			●	●
Replaceable Battery		●	●	●
Signal Strength Indicator		●	●	●
5-Year Warranty	●	●	●	●
Versatile Mounting Options	●	●	●	●
Solar Sensor				●
Adjustable Dry-out rate for reset delay	●	●	●	●
Weather-following by site location				●
Works w/all 24V Controllers	●	●	●	
Communicates w/multiple receivers		●	●	●
Optional Remote Control				●

DECODER

CONNECTED HUB

REMOTE

PUMP
START RELAY



AC 2-Wire Decoder

Pg. 17

AC 2-Wire Decoder



SMRT Logic®

Pg. 25

SMRT Logic for wireless connectivity
to KD2™ & Rain Dial® Controllers



PRO MAX™

Pg. 27

PROMAX Remote



SR-1

Pg. 28

SR-1 Pump Start Relay

RAINSENSOR™ SERIES



RAIN & FREEZE SENSORS

Key Features

- Constant communication between transmitter & receiver
- Versatile mounting options
- Smart Bypass™ for easy system override
- Fully adjustable shutoff points
- Dry-out rate adjustment for reset delay
- Compatible with virtually all Irritrol® & competitive controllers
- Rain & freeze sensors fully integrated into one unit

Additional Features

Wireless Models

- Replaceable battery
- Signal strength indicator
- Visual sensor status and alert indicators verify consistent operation
- Patented RF technology
- Slide/snap-on cover provides additional protection to weather-proof receiver from the elements
- Power failure memory protection
- Highly accurate 41°F digital activation point ❄️

Wired Models

- 25-foot cable (UV-resistant, white jacket included) provides installation flexibility
- Easy conversion to normally open operation



RFS1000

RS1000

RS500

Models

Model	Description
RS1000	Wireless RainSensor
RFS1000	Wireless rain/freeze sensor
RS500	Wired RainSensor

Specifying Information

MODEL	CONNECTION
RS - Rain Sensor	500 - Wired
RFS - Rain/Freeze Sensor (wireless only)	1000 - Wireless
Example: A wireless rain/freeze sensor = RFS1000	



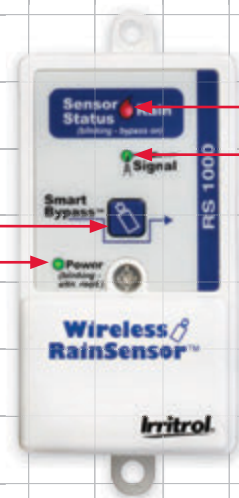
SPECIFICATIONS

Patented Wireless Technology

Press once to temporarily deactivate rain sensor; automatically resets on next activation

Illuminates "RED" when the rain sensor is activated

Blinking light alerts user when attention is required, e.g., need batteries replaced, no communication



Illuminates "GREEN" to ensure a good signal



Operating Specifications

- Sensor type: industry-standard hygroscopic discs
- Rain sensitivity: adjustable nominal $\frac{1}{8}$ to $\frac{3}{4}$ "
- Operating temperature: -20°F to 120°F
- Housing material: UV-resistant engineered polymer
- Wireless only features:
 - Transmission range: up to 500' line-of-sight
 - Battery: Two CR2032 3V cells, 5-year life (typical)
 - Frequency: 418MHz



Electrical Specifications

- Receiver power: 22-28 V AC/V dc, 100mA (to be used with Class 2, UL-approved transformer)
- Load rating: Normally open or normally closed
 - 3A @ 24 V AC
- UL Listed, FCC, CE, IC

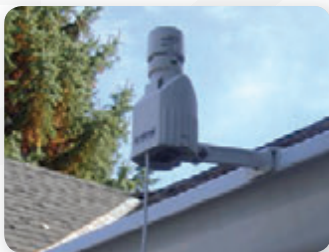


Dimensions

- Transmitter: H: 1 1/2", W: 1 3/4", D: 3 3/4"
- Receiver: H: 1 1/2", W: 1", D: 3"

Versatile Mounting Options:

(All In One SKU)



Gutter mount



Surface mount



Pole mount

CLIMATE LOGIC[®] SYSTEM

WIRELESS WEATHER SENSING KIT & MAINTENANCE REMOTE

Key Features

- Built-in radio
- Temperature sensor
- Built-in RainSensor™
- Solar sensor
- Receiver Module:
 - Connects to the controller with a single plug-in cord.
 - Converts historical and today's data from the weather sensor to percent of the hottest month's watering time to apply
 - Proportionately alters the controller's water budget
- Weather SD card with local, 40-year average historical weather information, insert the set-up card into the Climate Logic module (included).

Models

Model	Description
CL-100-Wireless	Wireless weather sensor & module kit
CL-W1	Wireless weather sensor
CL-R1	Remote control (transmitter only)
CL-M1	Wireless receiver module
R-100-KIT	Remote control & mini receiver (complete kit)



CL-M1 receiver module

CL-W1 Weather sensor/transmitter

CL-R1

CL-MR



Specifying Information

CL - XXX - WIRELESS

MODEL	CONNECTION
CL - Climate Logic	100 - Receiver & transmitter kit R1 - Remote transmitter only MR - Mini Receiver
Example: a wireless system with sensor & module = CL-100-Wireless	

*One CL-W1 weather sensor/transmitter can communicate with several CL-M1 receiver modules and their controllers.

SMRT LOGIC®

CLOUD BASED HUB FOR LANDSCAPES

Key Features

- One-stop mobile control of irrigation & lighting
- Proprietary RF Communication
- SMRTscape™ web/mobile interface
- Control up to 10 controllers with a single SMRT Logic®
- Up to 3 times the range of standard Wi-Fi controllers*
- Compatible with any Climate Logic® equipped controller
- SMRT-CLMR-KIT connects controllers without Climate Logic
- Mobile picture upload to SMRTscape.com
- Encrypted and secure
- No need to use or provide Wifi password

*Internal benchmark testing

Models

Model	Description
SMRT-CLMR-KIT	Irritrol® SMRT Logic+ CL Mini Receiver

Smart Control Upgrade Kit For Irritrol Controllers



SMRT LOGIC
A SMRTSCAPE.COM DEVICE

Gateway to connect & control irrigation, lighting, outdoor entertainment, pumps, water features & much more!



SMRTscape.com & SMRTscape mobile app enables wireless control of your irrigation controller our outdoor space from any internet connected device

Specifying Information

MODEL	BRAND
SMRT - SMRT Logic	CLMR-KIT - Mini receiver bundle





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*Google Play and the Google Play logo are trademarks of Google LLC.

Application & Website



SMRT-CLMR-KIT



Full 2-Way Programmability

Irritrol® Controllers



Irritrol Controllers



Remote Functionality



SPECIFICATIONS



Operating Specifications

- Input: 120 VAC, 60 Hz
- Output: 5 VDC, 1 amp



Electrical Specifications

- Input: 5VDC 1 amp
- FCC



Dimensions

- 4.5" W x 5.5" H x 4.5" D
(antenna installed in typical orientation)
- Weight: 0.6 lbs.



Easy to setup, easy to use

- Connect the SMRT Logic® Internet Gateway (Ethernet)
- Register at www.SMRTscape.com
- Configure Locations, Controllers and Relays

Optional Accessories

- A** CRR Remote Kit (R-100-KIT)
- B** Cable Adapter (CMR-ADP)*
- C** Climate Logic® Receiver (CL-M1)
- D** Wireless Auxiliary Relay (EVO-AR)

*Required for interface to MC-E "Blue" & KwikDial

RAIN MASTER®

PRO MAX™ SERIES



LONG RANGE UHF MAINTENANCE REMOTE

Key Features

- Up to 1 mile range (line-of-sight)
- Addresses up to 999 individual controllers
- Remote controls up to 200 stations
- Quick connection port
- Independent control of master valve and/or pump
- Single or multi-station ON capability (for testing)
- Timed station operation selectable from 1 to 60 minutes
- Program functionality (Rain Master controllers)
- Detects (provides an audible alert) and protects against field wiring short circuits
- Built-in safety default to automatically turn station off after 60 minutes
- Audible feedback and warnings
- No fuses required
- Limited two-year warranty
- Utilizes three mechanisms to ensure reliable, interference-free communications:
 - A. Digital filters
 - B. Factory set remote access codes
 - C. Frequency modulation

Models

Model	Description
PROMAX	Complete remote kit for Rain Master
PROMAX-UA	Complete remote kit for any manufacturer's 24V AC controller



SPECIFICATIONS



Operating Specifications

PRO MAX Receiver

- Operating frequency: 154.6 MHz
- Sensitivity: 0.4 microvolt typical
- Operating temperature range: 32 to 140 degrees F°
- Storage temperature range: -4 to 158 degrees F°
- Humidity range: 0 to 90% non-condensing

PRO MAX Transmitter

- Operating frequency: 154.6 MHz
- Modulation type: frequency modulation
- Frequency stability: 5%
- Operating temperature range: 32 to 148 degrees F°
- Storage temperature range: -4 to 158 degrees F°
- Humidity range: 0 to 90% non-condensing



Electrical Specifications

PRO MAX Receiver

- Power source: 22–32 V AC 50/60 Hz

PRO MAX Transmitter

- Battery: CR-P2 lithium 6V (user replaceable)
- Battery life expectancy: 1 season (typical)



Dimensions

- Transmitter: H: 1½", W: 1¾", D: 3¾"
- Receiver: H: 1½", W: 1", D: 3"

The PROMAX-UA Kit Includes:



- Transmitter
- Receiver
- Adapter
- Connector Cables*
- Carrying case
- Antennas

*For any 24V controller up to 32 stations not included in standard Pro Max



SR-1

PUMP START RELAY



Key Features

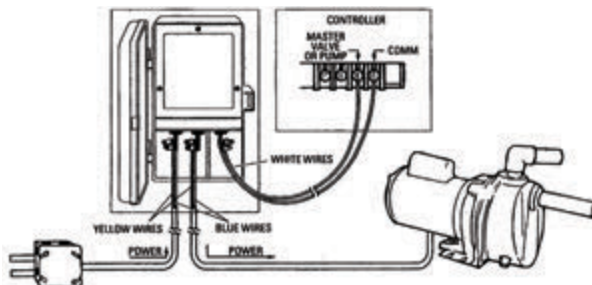
- Electrical relays for both low voltage (24V AC control switching and high voltage 120V AC or 240V AC) main power contacts
- Highly efficient 0.1 amp operating requirement
- Can also be used with irrigation control system for switching control of low voltage landscape lighting

Models

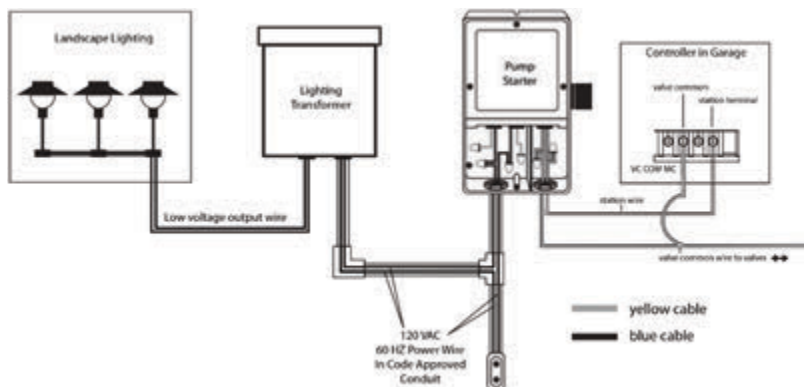
Model	Description
SR-1	Pump Start Relay

Wiring Diagrams

SR-1 as a pump start relay



SR-1 as a landscape lighting relay



Electrical Specifications

- Contacts: Up to 1 HP at 120V AC, 1 Phase Up to 2 HP at 250V AC, 1 Phase (20A at 250V AC)
- Coil: 24V AC, 3VA (19V AC Min, 30V AC Max)
- Coil Draw: 0.1 Amp

*Note: 2HP at 120V ac will exceed maximum amp rating

Dimensions

- H: 9 1/2", W: 6 1/4", D: 3 3/4"

FLOW SENSORS

Key Features

Plastic Flow Sensor Adapter:

- T-Type PVC Flow Sensors available in 1.5" thru 4" diameters. Flow ranges from 0.6 GPM to 500 GPM rated up to 240 PSI.
- Saddle Type Flow Sensor Adapters available in 3", 4", and 6" diameters. Flow ranges from 2 GPM to 1,100 rated up to 400 PSI.
- Available in Schedule 40 and Schedule 80 PVC depending on size requirements.

Brass:

- T-Type Brass Flow Sensors available in 1" thru 2.5" diameters. Flow ranges from 0.6 GPM to 160 GPM rated up to 400 PSI.



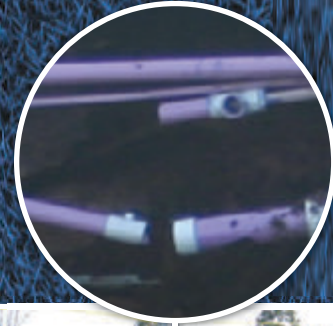
Flow Sensors Selection Chart:

FLOW SENSOR MODEL	PIPE CONNECTION SIZE	SUGGESTED OPERATING RANGE	MAXIMUM WATER PRESSURE	K VALUE	OFFSET VALUE	BODY MATERIAL	CONNECTION TYPE
FS-B100	1"	2-40 GPM	400 psi	109	27	Brass	NPT female
FS-B125	1 ¼"	3-60 GPM	400 psi	209	32	Brass	NPT female
FS-B150	1 ½"	4-80 GPM	400 psi	291	24	Brass	NPT female
FS-B200	2"	10-100 GPM	200 psi	750	0	Brass	NTP female with copper male adapter
FS-B250	2 ½"	16-160 GPM	200 psi	1021	370	Brass	NTP female
FS-150	1 ½"	5-100 GPM	100 psi @ 68F	457	0	PVC	Slip
FS-200	2"	10-200 GPM	100 psi @ 68F	776	104	PVC	Slip
FS-300	3"	20-300 GPM	100 psi @ 68F	2268	483	PVC	Slip
FS-400	4"	40-500 GPM	100 psi @ 68F	3752	834	PVC	Slip
FS-10*	1"	.86 - 52 GPM	240 PSI	87	6	PVC	SOCKET
FS-B15*	1 1/2"	3 -90 GPM	250 PSI	208	34	Brass	FPT
FS-15*	1 1/2"	1.8 -108 GPM	240 PSI	177	205	PVC	SOCKET
FS-20*	2"	2.8 -170 GPM	240 PSI	325	256	PVC	SOCKET
RM-S30*	3"	6 - 288 GPM	150 PSI	751	431	PVC	SADDLE
RM-S40*	4"	10 - 480 GPM	150 PSI	1237	303	PVC	SADDLE
RM-S60*	F	45- 1080 GPM	150 PSI	2839	903	PVC	SADDLE
FS-INSERT-B*	3 to 40 inches	Varies, call factory	400 psi	Varies, call factory		Requires pipe saddle with 2" female NPT	

*Only compatible with noted models



A \$500 flow sensor could have prevented \$250,000 damage.*
*actual saving will vary

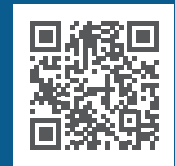




VALVES



PVC & Glass-Filled Nylon



Link to valves page

Irritrol®

SOLENOIDS

Standard 24v Solenoid



R811-24VACG

- Captive hex plunger feature
- 24 V AC, .40 amp inrush, .20 amp holding



RW60-KIT

- Purple solenoid with purple warning tag
- Captive hex plunger feature

For Battery-Powered (DC) Controllers



DCL SOLENOID

- DC latching solenoid for Hardie, Richdel® & Irritrol® valves used with IBOC® & IBOC™ Plus Series controllers

VALVE COMPARISON

Residential Valves



2400/2600 Series • 205 Series • 2500 Series • 2700 Series • 311A Series • Adapters

Operation	On Page#	33	35	37	39	41	43
		Manual	2600 Only			•	
	Electric	•	•	•	•	•	•
Available Size	3/4"				•	•	•
	1"	•	•	•	•	•	•
Configuration	Angle	2600 Only					
	Globe	2400 Only	•	•			Brass Valve Adapters
	H-Body				•	•	
Inlet/Outlet	Threaded	•	•	•	•	•	
	Slip	•	•	•			
	Male X Male	•					
	Male X Barb	•					
Flow Control	Standard	2400 Only			•	•	•
	Optional	2400 Only	•	•			
Construction	PVC	•	•	•	•	•	2623 Only
	Glass-Filled Nylon					•	300 Only
Anti-Siphon					•	•	
OMNIREG® Compatible						•	300 Only
Internal Bleed				•	•	•	•
External Bleed (Flush)		•	•	•	•	•	•

PRONLY Commercial Valves



200B Series • 700 Series • 100 Series • 100-S Series • 102 Series Anti-Contamination

Operation	On Page#	45	47	49	51	49
		Manual				
	Electric	•	•	•	•	•
Available Size	3/4"		•			
	1"	•	•	•	•	•
	1 1/2"	•	•	•	•	•
	2"	•	•	•	•	•
	3"			•	•	•
Configuration	Angle	•		•	•	•
	Globe	•	•	•	•	•
Inlet/Outlet	Threaded	•	•	•	•	•
Manual Flow Control	Standard	•	Except 3/4"	•	•	•
	Optional					
Material	PVC	•				
	Glass-Filled Nylon		•	•	•	•
OMNIREG® Compatible		•	•	•	•	
Internal Bleed		•	•	•	•	•
External Bleed (Flush)		•		•	•	•
Field Configuration NC/NO						•
Continuous Scrubbing Feature					•	



2400|2600 SERIES

ELECTRIC GLOBE/ANGLE 1" RESIDENTIAL VALVES (PVC)

Key Features

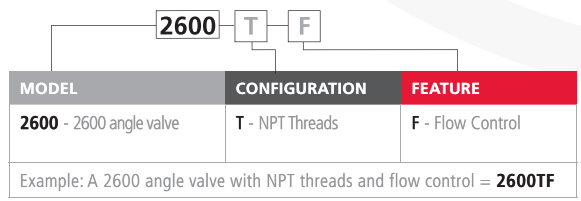
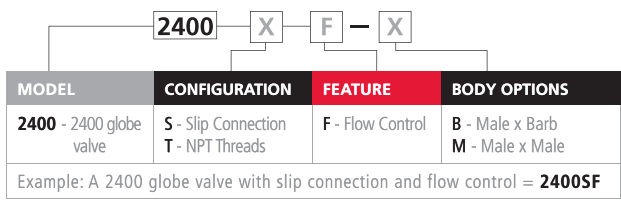
- Threaded bonnet design
- Rugged, double-beaded diaphragm
- Internal and external bleed (flush mode)
- Full stainless-steel metering system
- Heavy-duty, corrosion and UV-resistant PVC, glass-filled polypropylene and stainless steel construction
- Buna-N valve seat seal
- Floating bleed tube allows thermal expansion without affecting performance
- Encapsulated injection-molded solenoid with a captive hex plunger
- Optional flow control

Models

Model	Description
2400S	1" globe slip connection valve
2400SF	1" globe slip connection w/flow control
2400T	1" globe NPT threaded connection
2400TF	1" globe NPT threaded connection w/flow control
2400T-B	1" globe male x barb connection
2400TF-B	1" globe male x barb connection w/flow control
2400T-M	1" globe male x male connection
2400TF-M	1" globe male x male connection w/flow control
2600T	1" angle NPT threaded connection
2600TF	1" angle NPT threaded connection w/flow control



Specifying Information





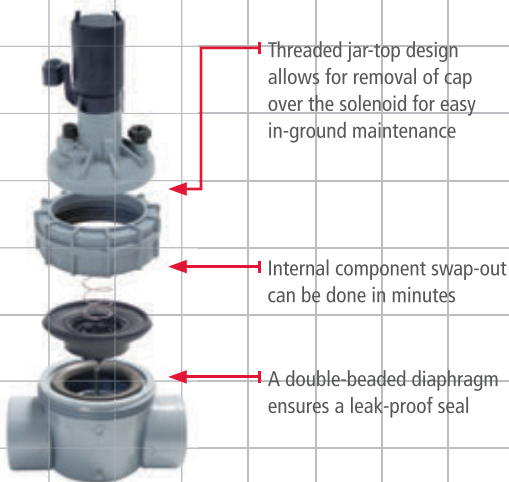
Pressure Loss Data

Flow Rate - GPM

Model	Size	.25	2	5	10	15	20	30
2400 Series	1"	5.00	4.60	3.50	4.00	2.97	3.26	6.20
2600 Series	1"	5.00	4.60	3.34	2.15	1.78	1.90	3.85

- 1) Pressure loss data derived from valves independently tested by CIT (Fresno, CA)
- 2) See pressure loss charts on pages 79 through 86 for details.

Valve Servicing Made Easy



SPECIFICATIONS



Operating Specifications

- Flow range: .25-30 GPM
- Pressure range: 10-150 psi



Electrical Specifications

- Solenoid: 24 V AC
- Inrush volt-amp: 24 V AC-9.6 VA
- Inrush current: .4 amp
- Holding volt-amp: 24 V AC-4.8 VA
- Holding current: .2 amp



Dimensions

- 2400: H: 5 1/8", W: 3", L: 4"
- 2600: H: 6 1/2", W: 3", L: 3 3/4"



Optional Accessories

- A** Recycled-water solenoid kit (RW60-KIT); purple solenoid with purple warning tag
- B** DC latching solenoid (DCL)
Note: Maximum pressure for a valve that utilizes latching solenoid is 120 psi.
- C** Threaded bonnet wrench (2400-45)

Optional accessories are field-installable. Must specify separately if required.



205 SERIES

ELECTRIC GLOBE 1" VALVES (PVC)

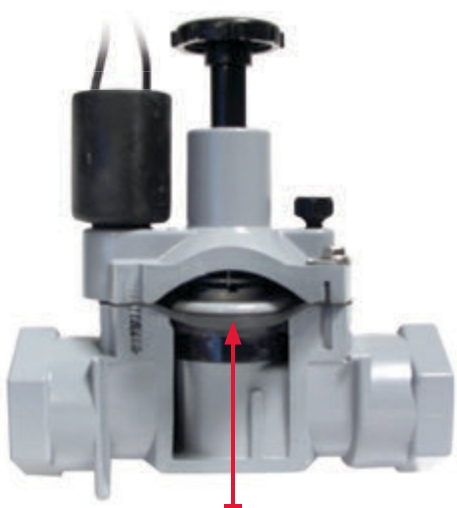
Key Features

- Heavy-duty, corrosion and UV-resistant PVC construction
- High-flow, low friction loss design
- Rugged, nylon-reinforced Buna-N diaphragm
- Available in female NPT or slip configurations (no male pipe adapter required)
- Optional flow control
- Buna-N valve seat seal
- Full stainless steel metering system and floating bleed tube
- Encapsulated injection-molded solenoid with a captive hex plunger

Models

Model	Description
205S	1" slip connection
205SF	1" slip connection with flow control
205T	1" NPT threaded connection
205TF	1" NPT threaded connection with flow control

Over 50 years of dependability



A flat fiber washer diaphragm allows the 205 to work in a wide flow range as well as easily handle debris



Specifying Information

205 - X - F

MODEL	CONFIGURATION	FEATURE
205 - 205 globe valve	S - Slip Connection T - NPT Threads	F - Flow Control

Example: A 205 globe valve with NPT threads and flow control = **205TF**



Pressure Loss Data

Flow Rate - GPM

Model	Size	.25	2	5	10	15	20	30
205 Series	1"	5.40	3.82	3.00	2.20	1.90	3.10	5.10

- 1) Pressure loss data derived from valves independently tested by CIT (Fresno, CA)
- 2) See pressure loss charts on pages 79 through 86 for details.

"We started using the 205 in 1976, so it's been 40 years. It is the only 1" valve we use because it was right from the start and Irritrol has left it alone. It's been several colors and brand names over the years but it hasn't changed."

-P. Covell

Owner of Covell Sprinklers - San Antonio, TX.

SPECIFICATIONS



Operating Specifications

- Flow range: .25-30 GPM
- Pressure range: 10-150 psi



Electrical Specifications

- Solenoid: 24 V AC
- Inrush volt-amp: 24 V AC-9.6 VA
- Inrush current: .4 amp
- Holding volt-amp: 24 V AC-4.8 VA
- Holding current: .2 amp



Dimensions

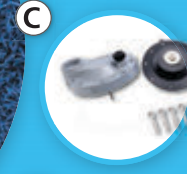
- H: 5 1/8", W: 2 3/4", L: 5"



Optional Accessories

- A** Recycled-water solenoid kit (RW60-KIT); purple solenoid with purple warning tag
- B** DC latching solenoid (DCL)
Note: Maximum pressure for a valve that utilizes latching solenoid is 120 psi.
- C** R205KIT
- D** R205TFKIT

Optional accessories are field-installable. Must specify separately if required.





2500 SERIES

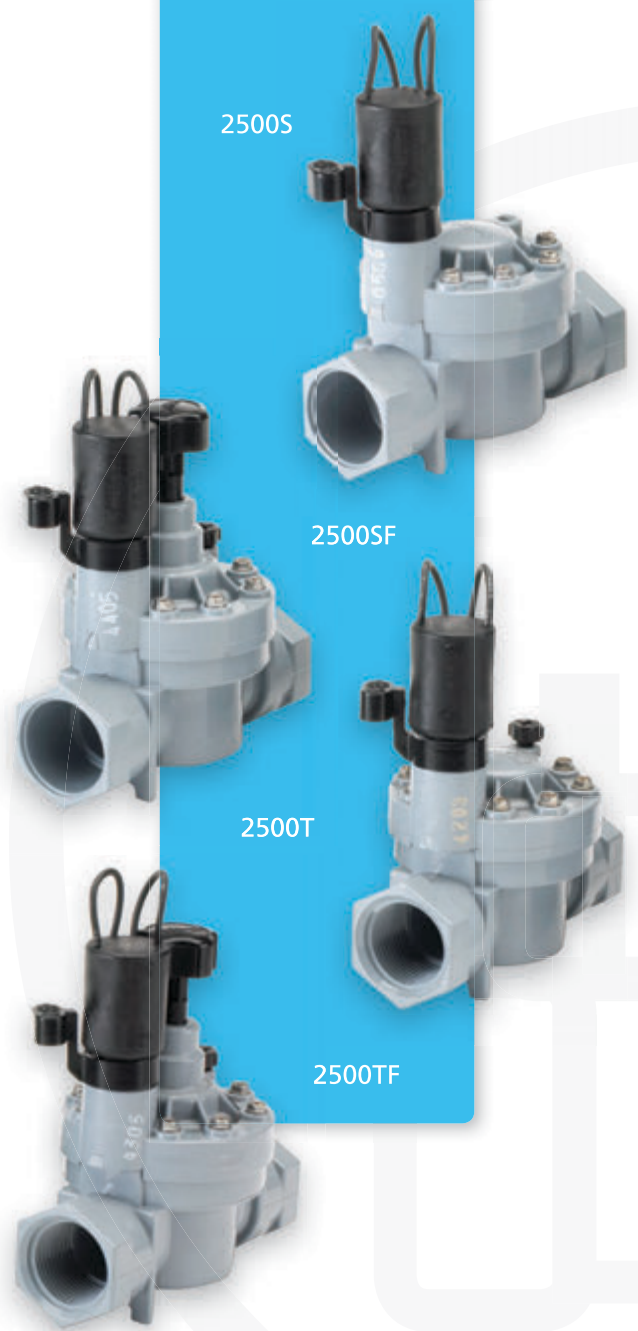
ELECTRIC GLOBE 3/4" & 1" VALVES (PVC)

Key Features

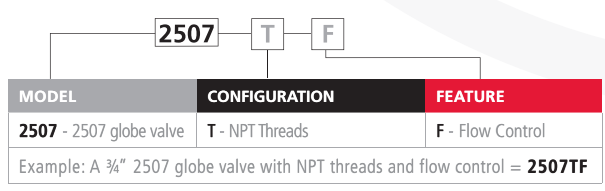
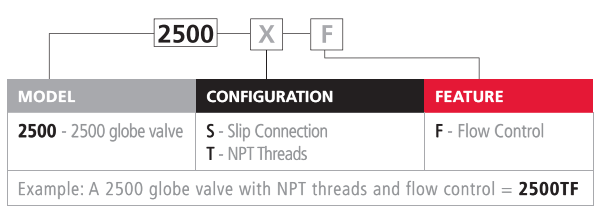
- Patented "floating" stainless-steel metering system
- High-flow, low friction loss design combined with low-flow capability
- Rugged, double-beaded EPDM diaphragm
- Internal and external bleed (flush mode)
- Heavy-duty, corrosion and UV-resistant PVC and stainless steel construction
- Available in female NPT or slip configurations (no male pipe adapter required)
- Buna-N valve seat seal
- Floating bleed tube allows thermal expansion without affecting performance
- Encapsulated injection-molded solenoid with a captive hex plunger

Models

Model	Description
2500S	1" slip connection
2500SF	1" slip connection with flow control
2500T	1" NPT threaded connection
2500TF	1" NPT threaded connection with flow control
2507TF	3/4" NPT threaded connection with flow control



Specifying Information





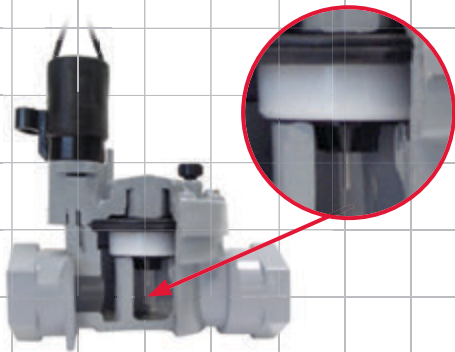
Pressure Loss Data

Flow Rate - GPM

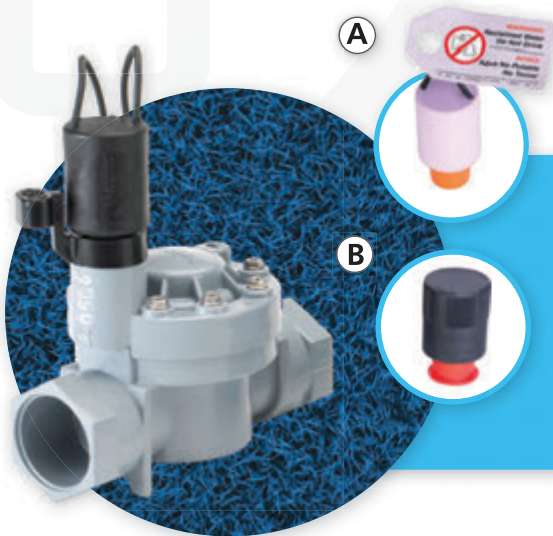
Model	Size	.25	2	5	10	15	20	30
2500 Series	1"	5.40	3.82	3.00	2.20	1.90	3.10	5.10
2507 Series	¾"	2.75	3.40	3.85	4.00	2.40	3.98	6.19

- 1) Pressure loss data derived from valves independently tested by CIT (Fresno, CA)
- 2) See pressure loss charts on pages 79 through 86 for details.

Ideal For Dirty Water Applications



Debris-tolerant, patented "floating metering system" makes this valve ideal for wells & dirty water applications



SPECIFICATIONS



Operating Specifications

- Flow range: .25-30 GPM
- Pressure range: 10-150 psi



Electrical Specifications

- Solenoid: 24 V AC
- Inrush volt-amp: 24 V AC-9.6 VA
- Inrush current: .4 amp
- Holding volt-amp: 24 V AC-4.8 VA
- Holding current: .2 amp



Dimensions

- 2500: H: 5 ½", W: 2 ¾", L: 5"
- 2507: H: 5 ½", W: 2 ¾", L: 5"



Optional Accessories

- A** Recycled-water solenoid kit (RW60-KIT); purple solenoid with purple warning tag
- B** DC latching solenoid (DCL)
Note: Maximum pressure for a valve that utilizes latching solenoid is 120 psi.

Optional accessories are field-installable. Must specify separately if required.



200B SERIES COMMERCIAL VALVES



ELECTRIC GLOBE/ANGLE 1", 1½" & 2" (PVC)

Key Features

- Heavy-duty, corrosion- and UV-resistant PVC construction with stainless steel spring and hardware
- Slow-closing design
- Rugged, double-beaded diaphragm
- Internal and external bleed (flush mode)
- Accepts OmniReg® modular pressure regulator
- High-strength ribbed bonnet and bottom inlet
- Flow control allows precise adjustment and manual shutoff
- Buna-N valve seat seal
- Unique threaded inlet plug O-ring seal prevents leaks
- Encapsulated injection-molded solenoid with a captive hex plunger

Models

Model	Description
214B	1" NPT threads, flow control
216B	1½" NPT threads, flow control
217B	2" NPT threads, flow control



Specifying Information

21 XB

MODEL	SIZE
21 - 200B Series electric valve	4 - 1" size B 6 - 1½" size 7 - 2" size
Example: A 200B Series 1" electric valve = 214B	



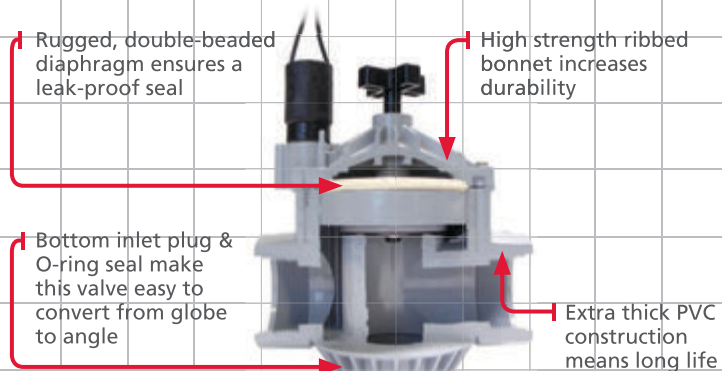
Pressure Loss Data

Flow Rate - GPM

Model	Size	Globe Angle	5	10	15	20	30	40	50	60	80	100	120
214B	1"	G	3.36	2.60	1.82	2.35	5.40						
		A	3.09	2.20	1.48	1.98	4.00						
216B	1½"	G				3.04	2.66	2.33	2.97	4.14	5.62		
		A				2.76	2.24	1.99	2.30	3.10	4.42		
217B	2"	G				2.00	1.93	1.73	1.55	1.68	2.99	4.85	6.31
		A				2.00	1.93	1.73	1.55	1.59	2.15	3.27	4.88

- 1) Pressure loss data derived from valves independently tested by CIT (Fresno, CA)
- 2) See pressure loss charts on pages 79 through 86 for details.

Durable Heavy-Duty Construction



SPECIFICATIONS



Operating Specifications

- Flow range: 5-120 GPM
- Pressure range: 20-150 psi



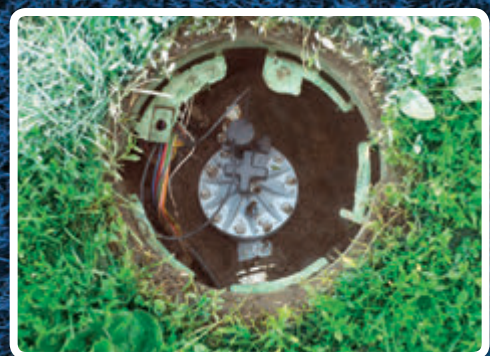
Electrical Specifications

- Solenoid: 24 V AC
- Inrush volt-amp: 24 V AC-9.6 VA
- Inrush current: .4 amp
- Holding volt-amp: 24 V AC-4.8 VA
- Holding current: .2 amp



Dimensions

- 214B: H: 6 ½", W: 2 ½", L: 4 ½"
- 216B: H: 7 ¾", W: 4 ¼", L: 5 ½"
- 217B: H: 8 ¾", W: 5 ⅜", L: 6 ¼"



Optional Accessories

- A** Recycled-water solenoid kit (RW60-KIT); purple solenoid with purple warning tag
- B** DC latching solenoid (DCL)
Note: Maximum pressure for a valve that utilizes latching solenoid is 120 psi.
- C** OmniReg[®] regulator (OMR-30)
Note: Available on 300 Series only
* Optional accessories are field-installable. Must specify separately if required.



700 SERIES ULTRAFLOW[®] COMMERCIAL VALVES

ELECTRIC GLOBE 3/4", 1", 1 1/2" & 2" (GLASS-FILLED NYLON)

Key Features

- Unique straight-through flow path
- Heavy-duty, corrosion and UV-resistant construction with stainless steel spring and hardware
- Ideal for chemical resistance (tested)
- Slow-closing design
- Rugged, double-beaded diaphragm
- Internal and external bleed (flush mode)
- Accepts OmniReg[®] modular pressure regulator
- High-strength ribbed bonnet and bottom inlet
- Wide flow range
- EPDM valve seat seal
- Unique threaded inlet plug O-ring seal prevents leaks
- Encapsulated injection-molded solenoid with a captive hex plunger
- Female threaded connections only

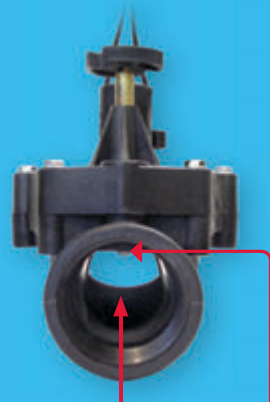
Models

Model	Description
700B-.75	3/4" internal bleed flow control
700-1	1" internal bleed flow control
700-1.5	1 1/2" internal bleed flow control
700-2	2" internal bleed flow control

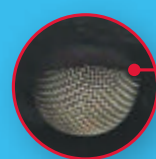
"The Irritrol 700 Series valve has been our firm's preferred valve for over twenty years. With the straight flow-through path providing less friction loss you're able to achieve higher flows with smaller valves, saving your client money. I can't think of one instance where a client or maintenance entity has complained about the valve not doing the job."

-Y. Hooper

Principal, Van Dyke Landscape Architecture - San Diego, CA



Straight-through flow path provides a wide flow range with minimal friction loss



Self-flushing, 150 mesh stainless steel filter screen provides consistent operation



700-2 700-1.5 700-1 700-.75

Specifying Information

700 - XXX

MODEL	SIZE
700 - 700 UltraFlow electric valve	B-.75 - 3/4" size 1 - 1" size 1.5 - 1 1/2" size 2 - 2" size

Example: A 700 UltraFlow electric 1" valve = **700-1**



Pressure Loss Data

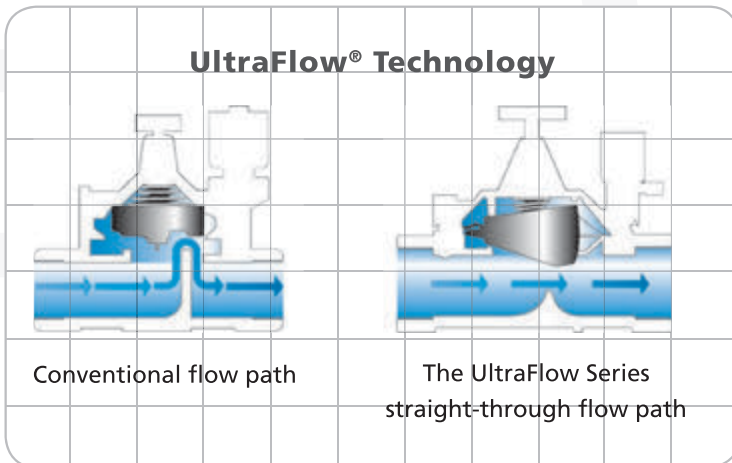
Flow Rate - GPM

Model	Size	0.1	2	5	10	15	20	30	40	50
700B-.75	¾"	0.38	0.38	0.86	1.22	2.03	3.27	6.75		
700-1	1"	2.20	1.59	1.80	2.41	2.23	1.84	3.22	5.58	8.59

Flow Rate - GPM

Model	Size	15	20	30	40	50	60	80	100	120	140	160	180
700-1.5	1½"	0.19	0.36	0.69	1.13	1.49	2.13	3.85	6.06	8.72	11.89		
700-2	2"			0.64	0.83	0.98	1.17	2.07	3.06	3.96	5.21	6.50	8.23

- 1) Pressure loss data derived from valves independently tested by CIT (Fresno, CA)
- 2) See pressure loss charts on pages 79 through 86 for details.



SPECIFICATIONS



Operating Specifications

- Flow range: 0.1-180 GPM (700B-.75 & 700-1 can operate at .1 GPM) (700-1.5 not recommended under 25 psi)
- Pressure range: 10-150 psi (700-2 not recommended under 25 psi)



Electrical Specifications

- Solenoid: 24 V AC
- Inrush volt-amp: 24 V AC-9.6 VA
- Inrush current: .4 amp
- Holding volt-amp: 24 V AC-4.8 VA
- Holding current: .2 amp

Dimensions

- 700B-.75: H: 4 ½", W: 1 ¼", D: 3 ⅝"
- 700-1: H: 4 ½", W: 3", D: 4 ⅜"
- 700-1.5: H: 5 ½", W: 4 ⅜", D: 6 ¼"
- 700-2: H: 7", W: 5 ½", D: 8"



Optional Accessories

- A** Recycled-water solenoid kit (RW60-KIT); purple solenoid with purple warning tag
- B** DC latching solenoid (DCL)
Note: Maximum pressure for a valve that utilizes latching solenoid is 120 psi.
- C** OmniReg® regulator (OMR-30)
Note: Available on 300 Series only
* Optional accessories are field-installable. Must specify separately if required.



100 SERIES COMMERCIAL VALVES

PRO ONLY

CENTURY PLUS & ANTI-CONTAMINATION (102 SERIES) ELECTRIC GLOBE/ANGLE 1", 1½", 2", & 3" (GLASS-FILLED NYLON)

Key Features

- Tough, glass-reinforced nylon, stainless steel and brass construction
- 220 psi pressure rating
- Internal and external bleed (flush mode)
- Externally removable self-cleaning metering system
- Accepts OmniReg® modular pressure regulator
- EPDM valve seat seal
- Brass flow control stem on 2- and 3-inch models
- Positive O-ring seal on inlet plug prevents leaks without damaging seal threads

102 Anti-Contamination Models*

- 150-mesh external control water filter and three-way solenoid
- Selectable normally open or normally closed mode (factory set at normally closed)
- Control water filter
- Female threaded connections only

Models

Model	Description
100P1	1" internal bleed, flow control
100P1.5	½" internal bleed, flow control
100P2	2" internal bleed, flow control
100P3	3" internal bleed, flow control
102P1	1" anti-contamination filter
102P1.5	1½" anti-contamination filter
102P2	2" anti-contamination filter
102P3	3" anti-contamination filter



Master Valve Tip:
configure on-the-fly NC or NO

102 Series Anti-Contamination Valve

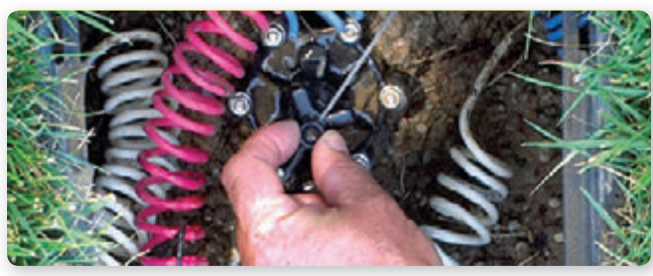


100P3 100P2 100P1.5 100P1

Specifying Information

MODEL	SIZE
100P - 100 internal bleed and flow control valve	1 - 1" size 1.5 - 1½" size
102P - 102 anti-contamination filter valve	2 - 2" size 3 - 3" size

Example: A 100P 1" valve with internal bleed and flow control = **100P1**





Pressure Loss Data

Flow Rate - GPM

Model	Size	Globe Angle	5	10	20	30	40	50
100P1	1"	G	6.30	4.20	3.20	4.10	7.20	10.90
102P1		A	6.30	4.20	3.10	2.70	4.80	7.90

Flow Rate - GPM

Model	Size	Globe Angle	30	40	50	60	70	80	90	100	110
100P1.5	1.5"	G	1.60	2.30	3.60	5.20	7.00	9.20	11.70	14.40	17.50
102P1.5		A	1.30	1.60	2.80	4.00	5.50	7.10	9.00	11.00	13.30

Flow Rate - GPM

Model	Size	Globe Angle	80	90	100	110	120	130	140	150	175
100P2	2"	G	2.10	2.70	3.30	4.00	4.80	5.60	6.50	7.50	8.60
102P2		A	1.20	1.60	2.00	2.40	2.80	3.30	3.90	4.40	5.00

Flow Rate - GPM

Model	Size	Globe Angle	150	175	200	225	250	275	300
100P3/102P3	3"	G	2.50	3.00	4.10	5.30	6.70	8.30	10.10
		A	1.90	2.40	3.30	4.30	5.50	6.90	8.50

- 1) Pressure loss data derived from valves independently tested by CIT (Fresno, CA)
- 2) See pressure loss charts on pages 79 through 86 for details.



SPECIFICATIONS



Operating Specifications

- Flow range: 5-300 GPM
- Pressure range: 20-220 psi
20-100 psi (102 models)



Electrical Specifications

- Solenoid: 24 V AC
- Inrush volt-amp: 24 V AC-9.6 VA
- Inrush current: .4 amp
- Holding volt-amp: 24 V AC-4.8 VA
- Holding current: .2 amp

Dimensions

- 100P1: H: 6 3/4", W: 3 5/8", D: 4 3/4"
- 102P1: H: 7 1/2", W: 5", D: 4 3/4"
- 100P1.5: H: 7 1/4", W: 3", D: 4 3/4"
- 102P1.5: H: 7 1/2", W: 5", D: 4 3/4"
- 100P2: H: 9 1/2", W: 6 1/8", D: 7 3/4"
- 102P2: H: 10 1/4", W: 7 1/2", D: 7 3/4"
- 100P3: H: 10 3/4", W: 6 1/8", D: 8 1/4"
- 102P3: H: 11 1/2", W: 7 1/2", D: 8 1/2"

Optional Accessories

- A** Recycled-water solenoid kit (RW60-KIT); purple solenoid with purple warning tag
- B** DC latching solenoid (DCL)
Note: Maximum pressure for a valve that utilizes latching solenoid is 120 psi.
- C** OmniReg[®] regulator (OMR-30)
Note: Available on 300 Series only
- D** Scrubber diaphragm assembly (100P-S-KIT)
- E** Richdel[®] Century valve repair kit (R100PX)
- F** IW series repair kit (SPK-100-X)

* Optional accessories are field-installable. Must specify separately if required.



100-S SERIES

CENTURY PLUS SCRUBBER VALVE ELECTRIC GLOBE/ANGLE 1", 1½", 2", & 3" (GLASS-FILLED NYLON)

Key Features

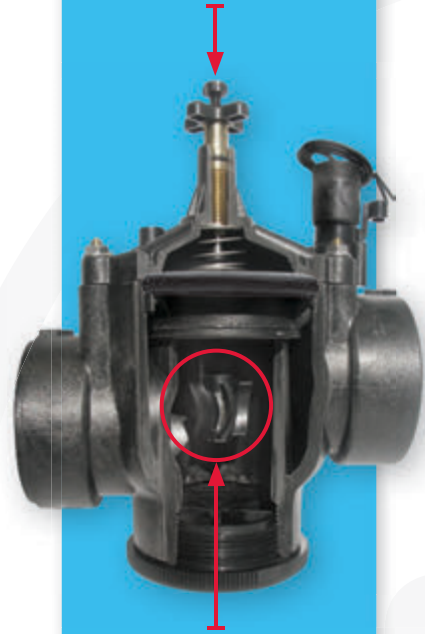
- Upper body and air-vent cap constructed of glass-filled nylon
- Heavy-duty, corrosion- and UV-resistant glass-filled nylon construction with stainless steel spring and hardware
- Slow-closing design
- Rugged, double-beaded diaphragm
- Internal and external bleed (flush mode)
- Accepts OmniReg® modular pressure regulator
- Unique three-way stainless steel Bonnet
- EPDM valve seat seal
- Brass flow control stem on 2- and 3-inch models
- Positive O-ring seal on inlet plug prevents leaks without damaging seal threads

Models

Model	Description
100P1-S	1" internal bleed, scrubber valve
100P1.5-S	1½" internal bleed, scrubber valve
100P2-S	2" internal bleed, scrubber valve
100P3-S	3" internal bleed, scrubber valve
100P1-S-KIT	1" scrubber diaphragm kit
100P1.5-S-KIT	1½" scrubber diaphragm kit
100P2-S-KIT	2" scrubber diaphragm kit
100P3-S-KIT	3" scrubber diaphragm kit

PRO ONLY

Self-cleaning—each cycle cleans internal orifices. All parts are easily accessible without removing the valve from the system



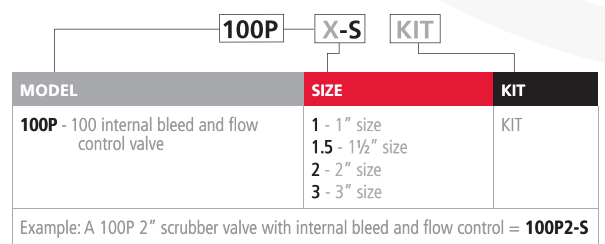
Continuous scrubbing turbine actively cleans the metering device for consistent valve operation in dirty water applications



100P3-S 100P2-S 100P1.5-S 100P1-S



Specifying Information





Pressure Loss Data

Flow Rate - GPM

Model	Size	Globe Angle	5	10	20	25	30	40	50
			100P1-S	1"	A	4.35	4.97	2.51	3.61
		G	1.90	2.40	3.30	4.30	5.50	6.90	8.50

Flow Rate - GPM

Model	Size	Globe Angle	20	30	40	50	60	70	80	90	100	110
			100P1.5-S	1.5"	A	0.92	1.33	2.33	5.53	4.93	6.64	8.99
		G	0.95	1.35	2.65	3.99	5.84	7.89	10.22	13.03	16.12	19.82

Flow Rate - GPM

Model	Size	Globe Angle	80	90	100	110	120	130	140	150	175
			100P2-S	2"	A	2.80	3.80	4.50	5.50	6.30	7.60
		G	3.54	4.45	5.40	6.68	8.04	9.26	10.95	12.21	15.65

Flow Rate - GPM

Model	Size	Globe Angle	150	175	200	225	250	275	300
			100P3-S	3"	A	2.55	3.10	4.50	5.40
		G	2.97	4.04	5.37	6.35	7.99	9.35	11.26

- 1) Pressure loss data derived from valves independently tested by CIT (Fresno, CA)
- 2) See pressure loss charts on pages 79 through 86 for details.

SPECIFICATIONS



Operating Specifications

- Flow range: 5-300 GPM
- Pressure range: 20-220 psi
20-100 psi (102 models)



Electrical Specifications

- Solenoid: 24 V AC
- Inrush volt-amp: 24 V AC-9.6 VA
- Inrush current: .4 amp
- Holding volt-amp: 24 V AC-4.8 VA
- Holding current: .2 amp

Dimensions

- 100P1-S: H: 6 3/4", W: 3 5/8", D: 4 3/4"
- 100P1.5-S: H: 7 1/4", W: 3 5/8", D: 4 3/4"
- 100P2-S: H: 9 1/2", W: 6 1/8", D: 7 3/4"
- 100P3-S: H: 10 3/4", W: 6 1/8", D: 8 1/4"



Optional Accessories

- A** Recycled-water solenoid kit (RW60-KIT); purple solenoid with purple warning tag
- B** DC latching solenoid (DCL)
Note: Maximum pressure for a valve that utilizes latching solenoid is 120 psi.
- C** OmniReg[®] regulator (OMR-30)
Note: Available on 300 Series only
- D** Scrubber diaphragm assembly (100P-S-KIT)

Optional accessories are field-installable. Must specify separately if required.



DRIP ZONE VALVE KITS

ELECTRIC 3/4" & 1"

Key Features

- Includes Irritrol control valve
- Irritrol Y-filter with a 150 mesh stainless steel filter screen
- Pressure regulator
- Available in 11 valve configurations (3/4" & 1")

MODELS

Model	Description
700DK-1-LF	1" 700 UltraFlow® Inline Valve, Filter, Low Flow Regulator & Fittings
700DK-1-MF	1" 700 UltraFlow Inline Valve, Filter, Medium Flow Regulator & Fittings
700DK-075-LF	3/4" 700 UltraFlow Inline Valve, Filter, Low Flow Regulator & Fittings
2500DK-1-LF	1" 2500 Valve, Filter, Low Flow Regulator & Fittings
2500DK-1-MF	1" 2500 Valve, Filter, Medium Flow Regulator & Fittings
2507DK-LF	3/4" 2507 Valve, Filter, Low Flow Regulator and Fittings
2507DK-MF	3/4" 2507 Valve, Filter, Medium Flow Regulator and Fittings
2711APRDK-LF	3/4" 2711APR Valve, AVB, Filter, Low Flow Regulator & Fittings
2711APRDK-MF	3/4" 2711APR Valve, AVB, Filter, Medium Flow Regulator & Fittings
2713APRDK-LF	1" 2713APR Valve, AVB, Filter, Low Flow Regulator & Fittings
2713APRDK-MF	1" 2713APR Valve, AVB, Filter, Medium Flow Regulator & Fittings
DK-LV-LF	Low Flow Kit Less Valve
DK-LV-MF	Medium Flow Kit Less Valve



Specifying Information



MODEL	KIT	VALVE SIZE	FLOW RATE
700 - 700 Series Valve	DK - Drip Zone Kit	1 - 1"	LF - Low Flow
2500 - 2500 Series Valve		075 - 3/4"	MF - Medium Flow
2507 - 2507 Series Valve			
2711APR - 2711 Series Valve			
2713APR - 2713 Series Valve			

Example: A drip zone kit with a 700 Series UltraFlow, 1" commercial valve (0.1-8 gpm) = **700DK-1-LF**



MODEL	LESS VALVE	FLOW RATE
DK - Drip Zone Kit	LV - Less Valve	LF - Low Flow
		MF - Medium Flow



Pressure Loss Data

Flow Rate - GPM

Model	GPM (Flow)	0.25	5	8	15	20
2711APRDK-LF	Pressure loss (psi)	3	5	5	n/a	n/a
	Min. Inlet (psi)	30	32	32	34	39
2711APRDK-MF	Pressure loss (psi)	3	5	5	7	13
	Min. Inlet (psi)	30	32	32	34	39
2713APRDK-LF	Pressure loss (psi)	3	5	5	n/a	n/a
	Min. Inlet (psi)	30	32	32	34	39
2713APRDK-MF	Pressure loss (psi)	3	5	5	5	8
	Min. Inlet (psi)	30	32	32	32	35
2500DK-1-LF	Pressure loss (psi)	3	3	3	n/a	n/a
	Min. Inlet (psi)	30	30	30	32	34
2500DK-1-MF	Pressure loss (psi)	3	3	3	4.5	7
	Min. Inlet (psi)	30	30	30	32	34
2507DK-LF	Pressure loss (psi)	3	5	5	n/a	n/a
	Min. Inlet (psi)	30	32	32	34	39
2507DK-MF	Pressure loss (psi)	3	5	5	7	13
	Min. Inlet (psi)	30	32	32	34	39
700DK-1-LF	Pressure loss (psi)	3	3	3	n/a	n/a
	Min. Inlet (psi)	30	30	30	32	34
700DK-1-MF	Pressure loss (psi)	3	3	3	4.5	7
	Min. Inlet (psi)	30	30	30	32	34
700DK-075-LF	Pressure loss (psi)	3	3	3	n/a	n/a
	Min. Inlet (psi)	30	30	30	32	34

SPECIFICATIONS



Operating Specifications

- Flow range: 5-300 GPM
- Pressure range: 20-220 psi
20-100 psi (102 models)



Electrical Specifications

- Solenoid: 24 V AC
- Inrush volt-amp: 24 V AC-9.6 VA
- Inrush current: .4 amp
- Holding volt-amp: 24 V AC-4.8 VA
- Holding current: .2 amp

Optional Accessories

- Recycled-water solenoid kit (RW60-KIT); purple solenoid with purple warning tag

- DC latching solenoid (DCL)

Note: Maximum pressure for a valve that utilizes latching solenoid is 120 psi.

- OmniReg[®] regulator (OMR-30)

Note: Available on 300 Series only

* Optional accessories are field-installable. Must specify separately if required.

Model	2711APRDK-LF	2711APRDK-MF	2713APRDK-LF	2713APRDK-MF	2500DK-1-LF	2500DK-1-MF	2507DK-LF	2507DK-MF	700DK-1-LF	700DK-1-MF	700DK-075-LF
Connection Size	3/4"	3/4"	1"	1"	1"	1"	3/4"	3/4"	1"	1"	3/4"
Control Valve Solenoid	24V AC, Inrush: 0.4 amps, 11.5 V a, Holding 0.20 amps, 5.75 V a										
Minimum Flow Rate	0.25 GPM	2 GPM	0.25 GPM	2 GPM	0.1 GPM	2 GPM	0.25 GPM	2 GPM	0.1 GPM	2 GPM	0.25 GPM
Maximum Flow Rate	8 GPM	20 GPM	8 GPM	20 GPM	8 GPM	20 GPM	8 GPM	20 GPM	8 GPM	20 GPM	8 GPM
Maximum Pressure	150 psi	150 psi	150 psi	150 psi	150 psi	150 psi	150 psi	150 psi	150 psi	150 psi	150 psi
Y-Filter Degree of Filtration	150 mesh	150 mesh	150 mesh	150 mesh	150 mesh	150 mesh	150 mesh	150 mesh	150 mesh	150 mesh	150 mesh
Regulator-Preset Pressure	25 psi	25 psi	25 psi	25 psi	25 psi	25 psi	25 psi	25 psi	25 psi	25 psi	25 psi
Thread Connection-Upstream	Female NPT	Female NPT	Female NPT	Female NPT	Female NPT	Female NPT	Female NPT	Female NPT	Female NPT	Female NPT	Female NPT
Thread Connection-Downstream	Female NPT	Female NPT	Male NPT	Female NPT	Male NPT	Female NPT	Female NPT	Female NPT	Female NPT	Male NPT	Female NPT
Minimum Number of Emitters:											
0.5 GPH	30	240	30	240	12	240	30	240	12	240	30
1 GPH	15	120	15	120	6	120	15	120	6	120	15
2 GPH	8	60	8	60	3	60	8	60	3	60	8
Maximum Number of Emitters:											
0.5 GPH	960	2400	960	2400	960	2400	960	2400	960	2400	960
1 GPH	490	1200	490	1200	490	1200	490	1200	490	1200	490
2 GPH	240	600	240	600	240	600	240	600	240	600	240

Note: Consult your local plumbing code for backflow prevention requirements.

* AVB = Atmospheric Vacuum Breaker (Anti-siphon Valve)

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Call Toll Free: **800-634-TURF (8873)**



VALVE SERVICE KITS



SPK-HR1

- Pre-packaged repair kit includes diaphragm assembly, O-ring, metering rod and fasteners (bulk 24 per)



R205KIT

- Pre-packaged repair kit for 205 Series non-flow control valves. Includes diaphragm assembly, bonnet assembly, fasteners and spring



R205TFKIT

- Pre-packaged repair kit for 205TF flow control valves. Includes diaphragm assembly, bonnet assembly, fasteners and spring



R936XX1

- Pre-packaged repair kit for Century Series. Includes complete bonnet assembly and diaphragm for retrofitting old Century Heries valves from Richdale®, Hardie and Hydro-Rain®



SPK-700-X

- Pre-packaged repair kit for UltraFlow® Series valves includes diaphragm assembly, support ring, seat seal, O-rings & fasteners (bulk 24 per; repair instructions & parts breakdown included)



SPK-100-X

- Pre-packaged repair kit for Century Series valves includes diaphragm assembly, O-ring, metering rod and fasteners (bulk 24 per; repair instructions and parts breakdown included)



R1000PX (Richdel®)

- Pre-packaged repair kit for Century Series valves includes diaphragm assembly, O-rings, metering rod and fastening nuts (bulk 24 per; repair instructions and parts breakdown included)



100P-S-KIT

- 100 Century Series Scrubber valve diaphragm assembly kit. Complete with scrubbing turbine, EPDM diaphragm, EPDM seat seal & 316SS filter. Available in fully assembled & ready to drop in a Century Series valve.

SPK-700X - XX

MODEL	SIZE
SPK-700B	0.75"
SPK-700	1"
SPK-700	1.5"
SPK-700	2"

SPK-100 - XX

MODEL	SIZE
SPK-100	1"
SPK-100	1.5"
SPK-100	2"
SPK-100	3"

R100P - XX

MODEL	SIZE
R100P	1"
R100P	1.5"
R100P	2"
R100P	3"

100P - X - S-KIT

MODEL	SIZE
100P	1"
100P	1.5"
100P	2"
100P	3"

Hydro-Rain is a registered trademark of Hydro-Rain in the U.S. and other countries.



ROTOR COMPARISON

Residential Applications				
		430R	TITAN	550R
Application	On Page#	59	60	61
	Turf	●	●	●
	Shrubs/Ground Cover			●
	Slopes		●	●
	Rubber Cover For Athletic Fields			●
Features	Full/Partial Circle	●	●	●
	Radius	20'-35'	32'-45'	25'-50'
	Inlet Size	1/2"	1/2" or 3/4"	3/4"
	Pressure Rating	30-50 psi	30-50 psi	25-65 psi
	Stainless Steel Riser			●
	Check Valve			●
	Recycled Water Option			●
	Pre-Installed Nozzle	1.5	3.0	3.0
	Shrub			●
	High Pop			●
	Automatic Return			
	Pop-Up Height	4"	3"	5"



430R SERIES



GEAR-DRIVEN POP-UP ROTOR – 1/2"

Key Features

- Familiar top adjustment, wet or dry
- Reversing full- & part-circle operation
- Pressure-activated wiper seal
- Positive left and right stops (fixed right stop)
- Stainless steel adjustment screw
- Ratcheting riser

Models

Model	Description
430R	1/2" inlet with 4" pop-up

Performance Data

Nozzle	Pressure psi	Radius ft.	Flow GPM	Precip. ■ in/h	Precip. ▲ in/h
0.75	30	20	0.80	0.39	0.44
	40	21	0.90	0.39	0.45
	50	22	1.00	0.40	0.46
1.0	30	26	1.00	0.28	0.33
	40	27	1.10	0.29	0.34
	50	28	1.30	0.32	0.37
1.5	30	29	1.30	0.30	0.34
	40	30	1.50	0.32	0.37
	50	31	1.70	0.34	0.39
2.0	30	30	1.70	0.36	0.42
	40	31	2.00	0.40	0.46
	50	31	2.30	0.46	0.53
3.0	30	34	2.60	0.43	0.50
	40	35	3.00	0.47	0.54
	50	35	3.40	0.53	0.65

1. Precipitation rates based on half-circle operation
 2. ■ square spacing based on 50% diameter of throw
 3. ▲ triangular spacing based on 50% diameter of throw
 Note: Data collected in zero wind conditions

OPERATING SPECIFICATIONS

- Inlet: 1/2" female-threaded NPT
- Adjustable arc range: 40° to 360°
- Flow range: .8 – 3.4 GPM
- Recommended operating pressure: 30 – 50 psi
- Maximum operating pressure: 60 psi
- Radius: 20' to 35'
- Standard nozzle trajectory: 25°
- 5 interchangeable nozzles



Specifying Information

430R	
MODEL	INLET
430R - Gear-driven rotor	1/2" Female Threaded NPT
Example: 430R rotor, 1/2" female threaded, 4" height = 430R	



No Special Tools Required
 All arc adjustments made from the top with a standard screwdriver reduces set up time



Nozzle tree



Tool



TITAN™



IMPACT ROTOR – COMBINATION 1/2" OR 3/4"

Key Features

- Double-weighted spray guide arm
- 5 interchangeable, color-coded MPR nozzles
- Heavy-duty, high impact case
- Pressure-activated wiper seal
- Radius reduction screw
- Unique lip case design
- Replaces competitive sprinklers
- Straight flow-through path

Models

Model	Description
TITAN	Impact Rotor
TITAN-NP	Impact Rotor w/non-potable cover



OPERATING SPECIFICATIONS

- Full- & part-circle adjustable from 20° to 360°
- Radius: 32' - 45'
- Flow rate: 1.50–7.50 GPM
- Recommended operating pressure range: 30–50 psi
- Maximum operating pressure: 60 psi
- Recommended spacing: 22' to 45'
- Trajectory: 18°
- Combination 1/2" or 3/4" female-threaded inlet



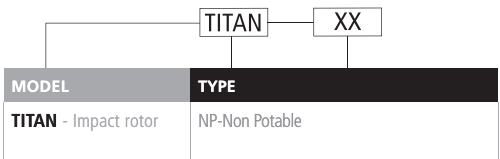
Dimensions

- Body diameter: 2 1/2"–5"
- Cap diameter: 5"
- Height: 9 3/10"

Performance Data

Nozzle	Pressure psi	Radius ft.	Flow GPM	Precip. ■ in/h	Precip. ▲ in/h
1.5 (Orange)	30	32	1.5	0.16	0.14
	40	35	1.8	0.16	0.14
	50	36	2.3	0.20	0.17
2.0 (Red)	30	33	2.0	0.20	0.18
	40	37	2.2	0.18	0.15
	50	40	2.5	0.17	0.15
3.0 (Black)	30	35	2.9	0.26	0.23
	40	39	3.6	0.26	0.23
	50	41	5.0	0.26	0.23
4.0 (Blue)	30	38	3.8	0.29	0.25
	40	41	4.2	0.28	0.24
	50	42	5.1	0.32	0.28
6.0 (Green)	30	39	5.8	0.42	0.37
	40	43	6.5	0.39	0.34
	50	45	7.5	0.41	0.36

Specifying Information





550R SERIES

GEAR-DRIVEN POP-UP ROTOR – 3/4"

Key Features

- Familiar top adjustment, wet or dry
- Reversing full and part-circle operation
- Non-flushing wiper seal
- All adjustments made with a standard screwdriver
- Standard rubber cover
- Wide selection of nozzles
- Positive left & right stops (fixed left stop)
- Optional stainless steel riser
- Optional check valve holds up to 7' of elevation change
- Full 5" pop-up



550RS 550R 550R-SS-SC 550RHP

Models

Model	Description
550R	3/4" inlet, 5" lawn pop-up
550R-CV	3/4" inlet, 5" lawn pop-up w/check valve
550R-SC	3/4" inlet, 5" lawn pop-up & slip clutch
550R-CV-SC	3/4" inlet, 5" lawn pop-up w/check valve & slip clutch
550R-SS-SC	3/4" inlet, 5" lawn pop-up w/sst riser & slip clutch
550RS	3/4" inlet, shrub
550RHP	3/4" inlet, 12" high-pop



No Special Tools Required

All arc adjustments made from the top with a standard screwdriver reduces set up time

Specifying Information

550 - XXX - XX - XX - XX

MODEL	POP-UP TYPE	OPTIONS
550 - 3/4" rotor	R - lawn pop-up RS - shrub RHP - high-pop	CV - Check Valve NP - Non-Potable SS - Stainless Steel Riser SC - Slip Clutch

Example: 550R rotor, 3/4" female threaded, with stainless steel riser, non-potable cover, and slip clutch = **550R-SS-NP-SC**





SPECIFICATIONS

Pressure Loss Data

550R – Standard Nozzle

Nozzle	Pressure psi	Radius ft.	Flow GPM	Precip. ■ in/h	Precip. ▲ in/h
1.5	25	33	1.15	0.20	0.23
	35	34	1.38	0.23	0.27
	45	35	1.59	0.25	0.29
	55	35	1.74	0.27	0.32
	65	36	1.88	0.28	0.32
2.0	25	35	1.45	0.23	0.26
	35	36	1.80	0.27	0.31
	45	37	2.12	0.30	0.34
	55	37	2.30	0.32	0.37
	65	37	2.58	0.36	0.42
2.5	25	35	1.75	0.28	0.32
	35	36	2.20	0.33	0.38
	45	37	2.55	0.36	0.41
	55	37	2.80	0.39	0.45
	65	37	3.05	0.43	0.50
3.0	25	36	2.20	0.33	0.38
	35	38	2.60	0.35	0.40
	45	40	3.05	0.37	0.42
	55	40	3.52	0.42	0.49
	65	40	3.80	0.46	0.53
4.0	25	37	2.95	0.41	0.48
	35	40	3.55	0.43	0.49
	45	42	4.10	0.45	0.52
	55	42	4.45	0.49	0.56
	65	43	4.85	0.50	0.58
5.0	25	39	3.75	0.47	0.55
	35	41	4.50	0.52	0.60
	45	43	5.10	0.53	0.61
	55	45	5.75	0.55	0.63
	65	45	6.10	0.58	0.67
6.0	25	39	4.20	0.53	0.61
	35	43	5.20	0.55	0.63
	45	46	6.05	0.60	0.69
	55	47	6.65	0.58	0.67
	65	48	7.25	0.61	0.70
8.0	25	36	5.75	0.85	0.99
	35	43	7.10	0.74	0.85
	45	47	8.05	0.70	0.81
	55	48	8.95	0.75	0.86
	65	50	9.70	0.75	0.86

550R – Low Angle Nozzle

Nozzle	Pressure psi	Radius ft.	Flow GPM	Precip. ■ in/h	Precip. ▲ in/h
1.0 LA	25	25	0.74	0.23	0.26
	35	28	0.94	0.23	0.27
	45	28	1.02	0.23	0.27
	55	29	1.14	0.26	0.30
	65	29	1.25	0.29	0.33
1.5 LA	25	27	1.10	0.29	0.34
	35	30	1.35	0.29	0.33
	45	31	1.52	0.30	0.35
	55	31	1.75	0.35	0.40
	65	31	1.90	0.38	0.44
2.0 LA	25	29	1.40	0.32	0.37
	35	31	1.72	0.34	0.40
	45	32	2.05	0.39	0.45
	55	33	2.25	0.40	0.46
	65	33	2.45	0.43	0.50
3.0 LA	25	29	2.20	0.50	0.58
	35	33	2.60	0.46	0.53
	45	34	3.05	0.51	0.59
	55	36	3.40	0.51	0.58
	65	36	3.70	0.55	0.63



Operating Specifications

- Inlet: 3/4" female-threaded NPT
- Adjustable arc range: 40° to 360°
- Flow range: .74 – 9.70 gpm
- Recommended operating pressure: 45 psi
- Precipitation rate: .20 – .99 inches per hour
- Overall height (retracted): 7 3/8"
- Radius: 25' – 50'
- Pressure range: 25 to 70 psi
- Standard nozzle trajectory: 25°
- Low angle nozzle trajectory: 12°
- 8 standard and 4 low angle nozzles included (unit comes with 3.0 nozzle pre-installed)
- Riser height: 5"



1. Precipitation rates based on half-circle operation
 2. ■ square spacing based on 50% diameter of throw
 3. ▲ triangular spacing based on 50% diameter of throw

Note: Data collected in zero wind conditions

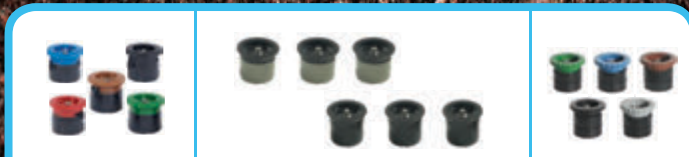
SPRAY COMPARISON

I-Pro™ Bodies



	I-Pro Series 3"	I-Pro Series 4"	I-Pro Series 6"	I-Pro Series 12"
On Page#	65	65	65	65
Side Inlet			•	•
Check Valve Option	•	•	•	•
Pressure Regulator Option		•	•	•
Non-Potable Water Option	•	•		•

Nozzles



	I-Pro Nozzles	Specialty Nozzles	Pro-Van Nozzles
On Page#	67	67	69
Radius	5', 8', 10', 12', 15'	Specialty	8', 10', 12', 15', 17'
Arc	1/4, 1/3, 1/2, 2/3, 3/4, Full*	9-EST, 9-CST, 9-SST, 15-EST, 15-CST, 15-SST	8', 10', 12', 15', 17'
Flow Range	.06-4.75 GPM	.41-1.35 GPM	.53-4.60GPM
Recommended Operating Pressure	20-50 psi	20-40 psi	20-50 psi

* 2/3" and 3/4" arcs not available in 5', 8' and 10' nozzles

I-PRO™ SERIES

POP-UP SPRAY

Key Features

- Pressure-activated seal with lubricant additive
- Pre-installed in-riser pressure regulator (optional)
- Pre-installed check valve (optional)
- Retrofittable riser
- Sturdy & robust, textured body
- Side and bottom inlets on 6" & 12" models (6" also available without side inlet)
- Heavy-duty, stainless steel retraction spring
- Male-threaded riser
- Pre-installed flush plug
- Ratcheting riser



Specifying Information



MODEL	HEIGHT	SIDE INLET	OPTIONS
I-PRO - I-PRO pop-up spray head series	300 - 3" 400 - 4" 400R - 4", less body 600 - 6" 600R - 6", less body 1200 - 12" 1200R - 12", less body	SI - Side inlet	CV - Pre-installed check valve PR - Pre-installed pressure regulator PR-CV - Pre-installed pressure regulator and check valve

Example: An I-PRO Series sprinkler with a 6" pop-up height, side inlet, pressure regulation option and check valve = **I-PRO600-SI-PR-CV**



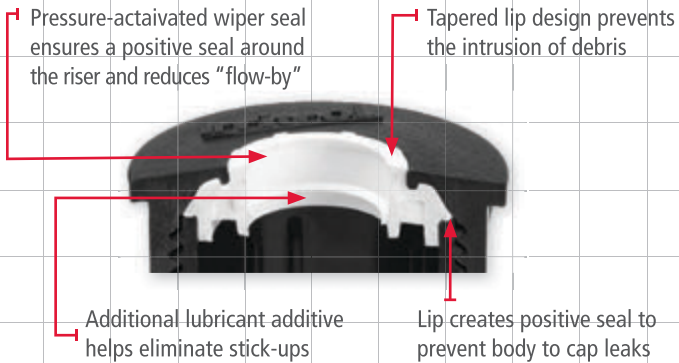
SPECIFICATIONS



Operating Specifications

- Inlet size: 1/2" female NPT threads
- Exposed diameter: 2 1/4"
- Body diameter: 1 5/8"
- Body height:
 - I-PRO300: 4 7/8"
 - I-PRO400: 5 3/4"
 - I-PRO600: 9 1/4"
 - I-PRO1200: 16"
- Side inlet: 4 3/8" from center of side inlet to top of cap
- Recommended operating pressure:
 - Standard: 20-50 psi (max 75 psi)
 - CV: 25-50 psi (max 75 psi)
 - PR: 30-70 psi (max 75 psi)
- Precipitation rate: 1.62-3.08 in/hr
 - Spacing: 4' – 15'
 - Flow-by: 0 at 10 psi or greater; .1 GPM otherwise

Superior Performing Wiper Seal



I-PRO™ SERIES SPRAY HEADS

Models

Model	Description
I-PRO300	3" I-PRO Spray Head
I-PRO400	4" I-PRO Spray Head
I-PRO400-CV	4" I-PRO Spray Head w/Check Valve
I-PRO400-NP	4" I-PRO Spray Head w/Lavender Cap Non-Potable
I-PRO400-PR	4" I-PRO Spray Head w/Pressure Regulator
I-PRO400-PR-CV	4" I-PRO Spray Head w/Pressure Regulator & Check Valve
<hr/>	
I-PRO600	6" I-PRO Spray Head
I-PRO600-CV	6" I-PRO Spray Head w/Check Valve
I-PRO600-NP	6" I-PRO Spray Head w/Lavender Cap Non-Potable
I-PRO600-PR	6" I-PRO Spray Head w/Pressure Regulator
I-PRO600-PR-CV	6" I-PRO Spray Head w/Pressure Regulator & Check Valve
I-PRO600-SI	6" I-PRO Spray Head w/Side Inlet
I-PRO600-SI-PR	6" I-PRO Spray Head w/Side Inlet & Pressure Regulator
<hr/>	
I-PRO1200-SI	12" I-PRO Spray Head w/Side Inlet
I-PRO1200-SI-CV	12" I-PRO Spray Head w/Side Inlet & Check Valve
I-PRO1200-NP	12" I-PRO Spray Head w/Lavender Cap Non-Potable
I-PRO1200-SI-PR	12" I-PRO Spray Head w/Side Inlet & Pressure Regulator
I-PRO1200-SI-PR-CV	12" I-PRO Spray Head w/Side Inlet, Pressure Regulator & Check Valve

I-PRO™ NOZZLE SERIES

MPR NOZZLES

Key Features

- Matched precipitation rates
- Low-flow rates
- Color-coded top
- Female-threaded
- Ribbed-edge design
- Stainless steel radius adjustment screw allows for up to 25% in-field reduction



Models

Model	Description	Model	Description
IPN-5F	360° Arc	IPN-12H	180° Arc
IPN-5H	180° Arc	IPN-12T	120° Arc
IPN-5T	120° Arc	IPN-12Q	90° Arc
IPN-5Q	90° Arc	IPN-15F	360° Arc
IPN-8F	360° Arc	IPN-15TQ	270° Arc
IPN-8H	180° Arc	IPN-15TT	240° Arc
IPN-8T	120° Arc	IPN-15H	180° Arc
IPN-8Q	90° Arc	IPN-15T	120° Arc
IPN-10F	360° Arc	IPN-15Q	90° Arc
IPN-10H	180° Arc	IPN-9EST	End strip, 4' x 9'
IPN-10T	120° Arc	IPN-9CST	Center strip, 4' x 18'
IPN-10Q	90° Arc	IPN-9SST	Side strip, 4' x 18'
IPN-12F	360° Arc	IPN-15EST	End strip, 4' x 15'
IPN-12TQ	270° Arc	IPN-15CST	Center strip, 4' x 30'
IPN-12TT	240° Arc	IPN-15SST	Side strip, 4' x 18'

Specifying Information

IPN - XX - XXX

MODEL	RADIUS	ARC
IPN - I-PRO Nozzles Series	5 - 5'	Q - 90°
	8 - 8'	T - 120°
	9 - 9' *	H - 180°
	10 - 10'	TT - 240°
	12 - 12'	TQ - 270°
	15 - 15'	F - 360°
		EST - end strip CST - center strip SST - side strip

Example: An I-PRO Series nozzle with a spray of 15', 180° arc = **IPN-15H**

Note: 5', 8' and 10' nozzles are not available in TT and TQ arc settings. * Specialty only

SPRAY ACCESSORIES



- I-PRO-NPC (Recycled-Water Cap)**
- Threads onto all I-PRO Series spray head bodies & Rain Bird®* 1800®* Series bodies
 - UV-resistant
 - Heavy-duty ABS material



- I-PRO-CV (I-PRO Check Valve)**
- For use in I-Pro series spray head
 - Ideal solution for protection against low-head drainage
 - Reduce water waste & erosion



- HS100 (Shrub Adapter)**
- Threads directly onto riser
 - UV-treated
 - Heavy-duty ABS
 - Accepts all Irritrol® & any other female-threaded nozzle

*Rain Bird and 1800 are registered trademarks of Rain Bird Corporation in the U.S. and other countries.



SPECIFICATIONS



Operating Specifications

- Flow rate: .06-4.75 GPM
- Recommended operating pressure range: 20-50 psi
- Maximum operating pressure: 75 psi



*5', 8' and 10' nozzles are not available in TT and TQ arc settings

Performance Data

5' Series with 0° Trajectory ●

Nozzle	Pressure psi	Radius ft.	GPM	Precip. ■ in/h	Precip. ▲ in/h
IPN-5F	20	4	0.27	1.62	1.87
	30	5	0.41	1.58	1.82
	40	6	0.49	1.30	1.50
	50	6	0.57	1.53	1.77
IPN-5H	20	4	0.11	1.27	1.46
	30	5	0.20	1.54	1.78
	40	6	0.24	1.29	1.49
IPN-5T	20	4	0.08	1.37	1.58
	30	5	0.13	1.50	1.73
	40	6	0.17	1.39	1.61
IPN-5Q	20	4	0.06	1.34	1.54
	30	5	0.10	1.54	1.78
	40	6	0.13	1.43	1.65
50	6	0.17	1.78	2.06	

8' Series with 5° Trajectory ●

Nozzle	Pressure psi	Radius ft.	GPM	Precip. ■ in/h	Precip. ▲ in/h
IPN-8F	20	7	0.77	1.51	1.75
	30	8	1.04	1.56	1.81
	40	9	1.21	1.43	1.66
	50	9	1.35	1.61	1.86
IPN-8H	20	7	0.38	1.51	1.75
	30	8	0.52	1.56	1.81
	40	9	0.60	1.43	1.66
IPN-8T	20	7	0.26	1.54	1.77
	30	8	0.34	1.53	1.77
	40	9	0.41	1.45	1.68
IPN-8Q	20	7	0.18	1.45	1.67
	30	8	0.26	1.56	1.81
	40	9	0.28	1.34	1.55
50	9	0.31	1.49	1.72	

10' Series with 12° Trajectory ●

Nozzle	Pressure psi	Radius ft.	GPM	Precip. ■ in/h	Precip. ▲ in/h
IPN-10F	20	9	1.22	1.45	1.68
	30	10	1.64	1.58	1.82
	40	11	1.77	1.41	1.63
	50	12	2.04	1.36	1.57
IPN-10H	20	9	0.68	1.63	1.88
	30	10	0.81	1.56	1.80
	40	11	0.97	1.54	1.78
IPN-10T	20	9	0.43	1.53	1.76
	30	10	0.53	1.53	1.77
	40	11	0.66	1.58	1.83
IPN-10Q	20	9	0.30	1.43	1.65
	30	10	0.40	1.54	1.78
	40	11	0.50	1.59	1.84
50	12	0.60	1.60	1.85	

12' Series with 23° Trajectory ●

Nozzle	Pressure psi	Radius ft.	GPM	Precip. ■ in/h	Precip. ▲ in/h
IPN-12F	20	11	1.74	1.38	1.60
	30	12	2.28	1.52	1.76
	40	13	2.45	1.39	1.61
	50	13	2.81	1.60	1.85
IPN-12TQ	20	11	1.17	1.23	1.42
	30	12	1.72	1.53	1.77
	40	13	1.83	1.39	1.60
IPN-12TT	20	11	1.20	1.43	1.65
	30	12	1.55	1.55	1.79
	40	13	1.74	1.49	1.72
IPN-12H	20	11	1.00	1.59	1.84
	30	12	1.15	1.54	1.78
	40	13	1.37	1.56	1.80
IPN-12T	20	11	0.59	1.42	1.64
	30	12	0.75	1.50	1.74
	40	13	0.91	1.55	1.79
IPN-12Q	20	11	0.46	1.45	1.68
	30	12	0.57	1.52	1.76
	40	13	0.68	1.56	1.80
50	13	0.72	1.64	1.89	

15' Series with 27° Trajectory ●

Nozzle	Pressure psi	Radius ft.	GPM	Precip. ■ in/h	Precip. ▲ in/h
IPN-15F	20	14	2.95	1.45	1.67
	30	15	3.73	1.60	1.84
	40	16	4.35	1.64	1.89
	50	16	4.75	1.78	2.06
IPN-15TQ	20	14	2.23	1.46	1.68
	30	15	2.76	1.57	1.81
	40	16	3.18	1.59	1.84
IPN-15TT	20	14	1.95	1.44	1.66
	30	15	2.41	1.55	1.79
	40	16	2.91	1.64	1.90
IPN-15H	20	14	1.51	1.48	1.71
	30	15	1.82	1.56	1.80
	40	16	2.23	1.68	1.93
IPN-15T	20	14	1.03	1.51	1.75
	30	15	1.19	1.53	1.76
	40	16	1.41	1.59	1.83
IPN-15Q	20	14	0.73	1.43	1.65
	30	15	0.91	1.56	1.80
	40	16	1.11	1.67	1.93
50	16	1.32	1.98	2.29	

Specialty Nozzles

9' Series with 20° Trajectory

Nozzle	Pressure psi	W x L ft.	Flow GPM
IPN-9EST	20	3 x 8	0.41
	30	4 x 9	0.45
	40	5 x 10	0.48
IPN-9CST	20	3 x 16	0.85
	30	4 x 18	0.90
IPN-9SST	20	5 x 20	0.97
	30	3 x 16	0.85
	40	4 x 18	0.90
50	5 x 20	0.97	

15' Series with 21° Trajectory

Nozzle	Pressure psi	W x L ft.	Flow GPM
IPN-15EST	20	3 x 14	0.52
	30	4 x 15	0.61
	40	5 x 17	0.70
IPN-15CST	20	3 x 28	1.10
	30	4 x 30	1.21
IPN-15SST	20	5 x 32	1.35
	30	3 x 28	1.10
	40	4 x 30	1.21
50	5 x 32	1.35	

■ Square spacing based on 50% diameter of throw
▲ Triangle spacing based on 50% diameter of throw

PRO-VAN SERIES

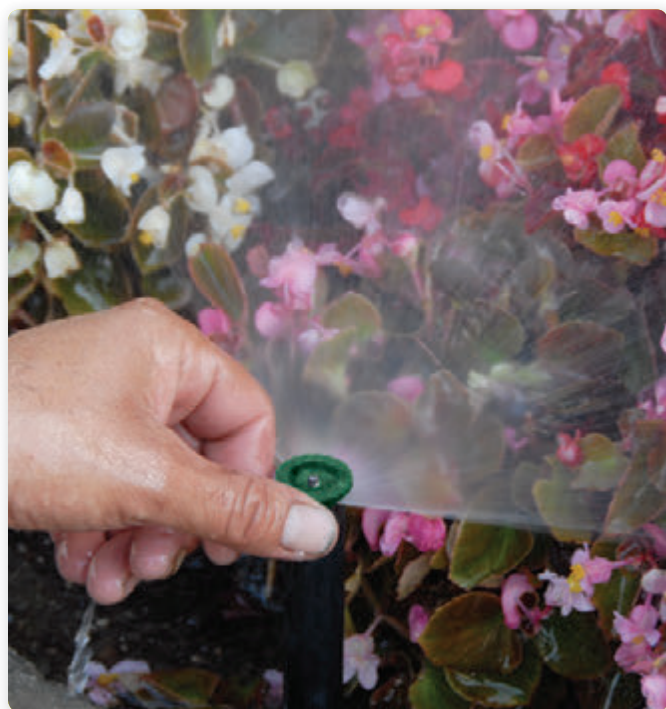
VARIABLE ARC

Key Features

- Fully adjustable arc – from 0° to 360°
- Precision adjustment
- Exclusive “Smart Grip” head design
- Compatible with any male-threaded riser in the industry
- Visible LEFT-stop arrow on top of nozzle
- Color-coded for easy radius identification
- Pre-assembled at 0°
- Stainless steel radius adjustment screw allows for up to 25% radius reduction

Models

Model	Description
PRO-VAN8	8' variable arc pattern
PRO-VAN10	10' variable arc pattern
PRO-VAN12	12' variable arc pattern
PRO-VAN15	15' variable arc pattern
PRO-VAN17	17' variable arc pattern



Specifying Information

MODEL	ARC	RADIUS
PRO - PRO-VAN Series	VAN - Variable arc	8 - 8' 10 - 10' 12 - 12' 15 - 15' 17 - 17'

Example: A Pro-VAN Series nozzle with a 12' radius = **PRO-VAN12**



SPECIFICATIONS



Operating Specifications

- Flow rate: .06-4.75 GPM
- Recommended operating pressure range: 20-50 psi
- Maximum operating pressure: 75 psi



Performance Data

8' Series with 5° Trajectory ●

Nozzle	Pressure psi	Radius ft.	Flow GPM	Precip. in/h	Precip. in/h
360°	20	8	1.72	2.59	2.99
	30	8	2.13	3.20	3.70
	40	9	2.48	3.73	4.31
	50	9	2.78	4.18	4.83
270°	20	8	1.36	2.73	3.15
	30	9	1.65	3.31	3.82
	40	9	1.89	3.79	4.38
	50	9	2.13	4.27	4.93
180°	20	9	0.87	2.62	3.02
	30	9	1.07	3.22	3.72
	40	9	1.23	3.70	4.27
	50	9	1.38	4.15	4.79
90°	20	9	0.53	3.19	3.68
	30	10	0.64	3.85	4.45
	40	10	0.72	4.33	5.00
	50	10	0.78	4.69	5.42

10' Series with 10° Trajectory ●

Nozzle	Pressure psi	Radius ft.	Flow GPM	Precip. in/h	Precip. in/h
360°	20	10	1.98	1.91	2.20
	30	10	2.41	2.32	2.68
	40	11	3.19	3.07	3.55
	50	12	3.59	3.46	3.99
270°	20	10	1.60	2.05	2.37
	30	11	1.95	2.50	2.88
	40	12	2.26	2.89	3.34
	50	12	2.52	3.23	3.73
180°	20	10	1.13	2.18	2.51
	30	11	1.38	2.66	3.07
	40	12	1.58	3.04	3.51
	50	12	1.77	3.41	3.93
90°	20	11	0.62	2.39	2.76
	30	12	0.77	2.96	3.42
	40	12	0.89	3.43	3.96
	50	13	1.00	3.85	4.45

12' Series with 15° Trajectory ●

Nozzle	Pressure psi	Radius ft.	Flow GPM	Precip. in/h	Precip. in/h
360°	20	11	2.26	1.51	1.74
	30	12	2.79	1.86	2.15
	40	13	3.20	2.14	2.47
	50	13	3.62	2.42	2.79
270°	20	11	1.85	1.65	1.90
	30	12	2.29	2.04	2.36
	40	13	2.64	2.35	2.72
	50	13	2.98	2.66	3.07
180°	20	11	1.33	1.78	2.05
	30	12	1.63	2.18	2.52
	40	13	1.89	2.53	2.92
	50	14	2.12	2.83	3.27
90°	20	12	0.75	2.01	2.32
	30	13	0.93	2.49	2.87
	40	14	1.06	2.83	3.27
	50	14	1.21	3.24	3.74

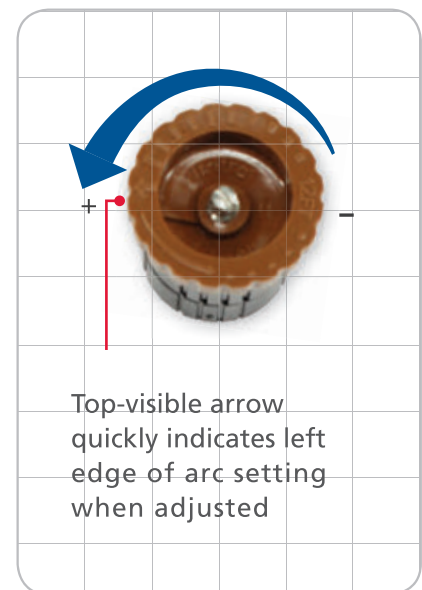
15' Series with 20° Trajectory ●

Nozzle	Pressure psi	Radius ft.	Flow GPM	Precip. in/h	Precip. in/h
360°	20	14	2.76	1.18	1.36
	30	15	3.35	1.43	1.65
	40	15	3.87	1.66	1.91
	50	16	4.31	1.84	2.13
270°	20	14	2.36	1.35	1.55
	30	15	2.89	1.65	1.90
	40	16	3.30	1.88	2.17
	50	16	3.37	2.13	2.46
180°	20	15	1.70	1.45	1.68
	30	16	2.09	1.79	2.06
	40	16	2.42	2.07	2.39
	50	17	2.71	2.32	2.68
90°	20	15	0.99	1.69	1.96
	30	16	1.20	2.05	2.37
	40	17	1.40	2.40	2.77
	50	17	1.56	2.67	3.08

17' Series with 26° Trajectory ●

Nozzle	Pressure psi	Radius ft.	Flow GPM	Precip. in/h	Precip. in/h
360°	20	14	2.90	0.97	1.12
	30	16	3.60	1.20	1.38
	40	17	4.10	1.37	1.58
	50	17	4.60	1.53	1.77
270°	20	14	2.50	1.11	1.28
	30	16	3.10	1.38	1.59
	40	17	3.60	1.60	1.85
	50	17	4.00	1.78	2.05
180°	20	15	1.90	1.27	1.46
	30	17	2.40	1.60	1.85
	40	17	2.70	1.80	2.08
	50	18	3.00	2.00	2.31
90°	20	15	1.20	1.60	1.85
	30	17	1.50	2.00	2.31
	40	18	1.70	2.26	2.62
	50	18	1.90	2.53	2.92

■ Square spacing based on 50% diameter of throw
 ▲ Triangle spacing based on 50% diameter of throw



533 BUBBLER SERIES

Key Features

- Simple twist top flow adjustment
- True zero flow shut-off
- Fully adjustable arc and flow rate
- Heavy-duty ABS material
- Non-potable option

Performance Data

	90° Adjustment	180° Adjustment	270° Adjustment	360° Adjustment
psi	GPM	GPM	GPM	GPM
15	1.36	2.37	2.85	2.97
20	1.56	2.75	3.31	3.45
25	1.77	3.04	3.71	3.86
30	1.93	3.36	4.05	4.32
35	2.01	3.59	4.37	5.51
40	2.25	3.84	4.70	5.90



533NP Bubbler



533 Bubbler



Operating Specifications

- Recommended working pressure: 20-40 psi
- Flow rate: 1.36-5.90 GPM
- Maximum operation pressure: 75 psi
- Inlet size: 1/2" female NPT threads



Dimensions

- H: 1 1/8"
- Top diameter: 1 1/16"

