

RB LDSC DEPT

RESIDENTIAL IRRIGATION *SELECTION* GUIDE





Quick Selection Guide

Anatomy of a Water-Efficient Residential System

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5000 Series

5000 Series Std. Nozzles

5000 Series PRS Nozzles

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Falcon[®] 6504 Series

8005 Series

2045A Maxi-Paw[™] and 2045-PJ Maxi-Bird[™]

25BPJ

LF Series

LFX300/LFX600 Series



Valves

DV / DVF Series

HV Series

PE-IVM Series

EFB-CP Series Brass Valves

EFB-CP IVM Series Brass Valves

Flow Meters and Sensors

FG100 & FS Series Flow Sensors

Controllers

Residential, Commercial and Battery Operated

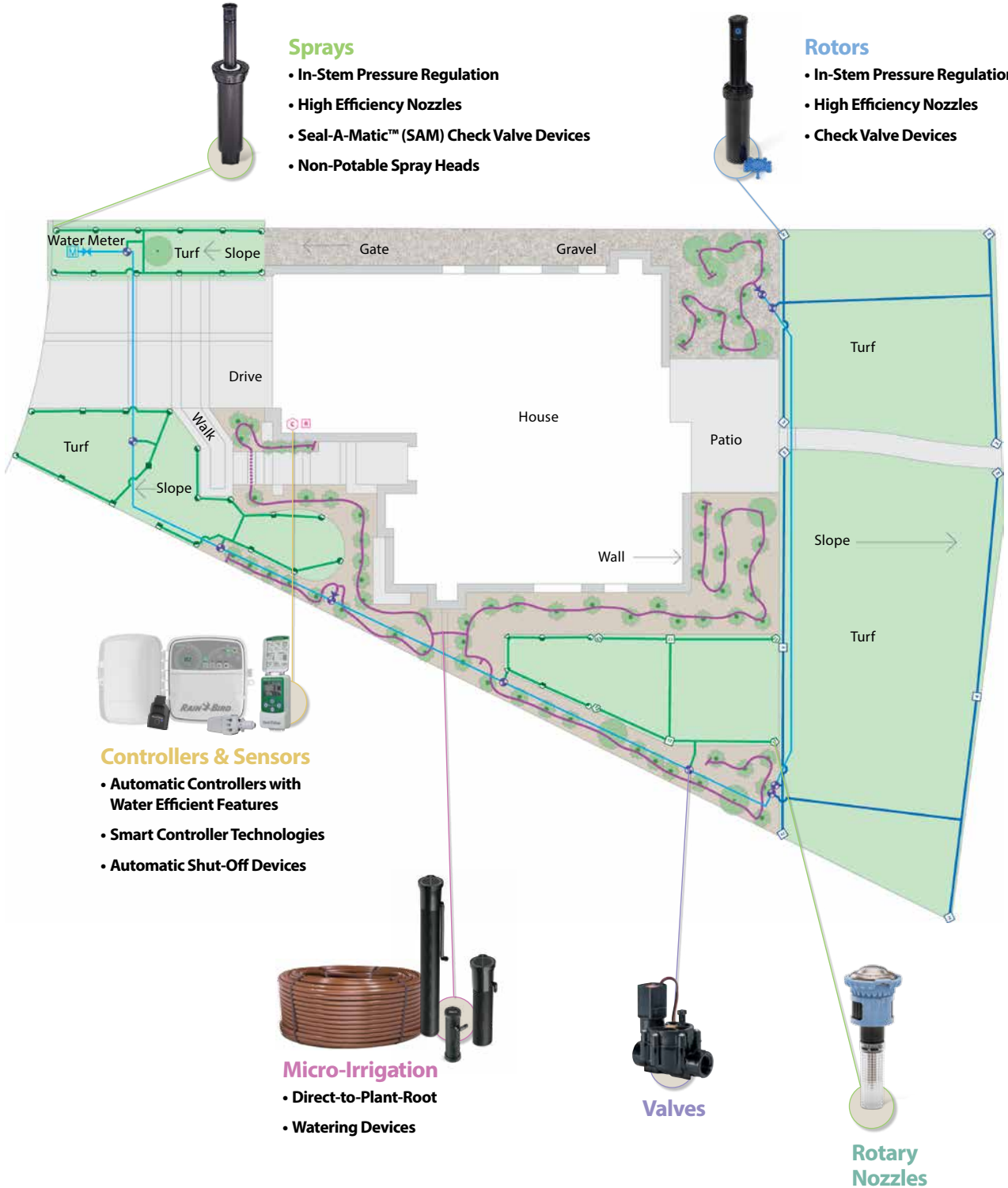


SCAN TO DOWNLOAD
THE RAIN BIRD
RESOURCES APP



Anatomy of a Water-Efficient* Residential System

This residential design guide highlights Rain Bird product and technology solutions for a healthy landscape that uses less water.



*All claims of water savings dependent on proper design, installation, and maintenance of irrigation products. Actual water savings may vary from user to user depending on weather, irrigation system and site conditions, and previous irrigation practices.





Spray Bodies

Major Products												
	1802, 1804, 1806	1812	1800 PRS	1800 SAM	1800 SAM-PRS	1800 SAM- PRS-45	US-400	1300/ 1400 Bubblers	PA-80 PA-85	RD-04, RD-06	RD1800 SAM- PRS-F	RD1800 SAM- PRS-45-F
Primary Applications												
Turfgrass	●		●	●	●	●	●			●	●	●
Slopes				●	●	●					●	●
Ground Cover/Shrubs	●	●	●	●	●	●	●	●	●	●	●	●
High Pressure Systems			●		●	●		●	●	●	●	●
Low Pressure Systems	●	●					●	●	●	●		
High Wind Areas	●	●	●	●	●	●	●	●	●	●	●	●
Non-Potable Water									●	●	●	●
Vandalism/Damage Prone											●	●
Dirty Water										●	●	●

Spray & Rotary Nozzles



Major Products						
	Rotary Nozzles	Variable ARC Sprays		Fixed ARC Sprays		Micro Sprays
Primary Applications	R-VAN Best	HE-VAN Best	VAN Standard	U-Series Best	MPR Standard	SQ Series Best
Turfgrass	●	●	●	●	●	
Slopes	●					●
Narrow Strips	●				●	●
Small Areas	●	●				●
Landscape Beds	●	●	●	●	●	●
High Efficiency	●	●		●		●
High Winds	●	●		●		●
High Pressure	●	●				





Rotors

Major Products	Gear Driven Rotors			Impact Rotors		
Primary Applications	3500 Series	5000 Series	Falcon™ 6504 Series	8005 Series	2045A Maxi-Paw™ Series	XLR Water Jet Series
Turfgrass 4.6 m to 10.7 m	●	●				
Turfgrass 7.6 m to 15.2 m		●	●	●	●	
Turfgrass more than 15.2 m			●	●		●
Residential	●	●			●	
Commercial	●	●	●	●	●	●
Vandalism/Damage Prone Areas				●		
Slopes	●	●	●	●	●	●
Ground Cover/Shrubs		●				
Athletic Fields			●	●		●
Pressure Regulating		●				
High Wind Areas	●	●	●	●	●	●
Taller Turfgrass		●		●		●
Non-Potable Water		●	●	●	●	●



Valves

Major Products										
Primary Applications	LFV	HV	HVF	DV	DVF	ASVF	PGA	PEB/PESB/PESB-R	EFB-CP/BPES	QC
Manual Bleed	I/E	I/E	I/E	I/E	I/E	I/E	I	I/E	I/E	
Flow Control			●		●	●	●	●	●	
Bottom Inlet				DV-A		●	●	300 PESB	BPES	●
Low Flow	●	●	●	●	●	●		●	●	
PRS-Dial Compatible							●	●	●	
Dirty Water								●	●	
Non-Potable Water							●	●	●	●
Sites Requiring Brass									●	●
Sites Requiring Plastic	●	●	●	●	●	●	●	●		
Decoder System Compatible							●	●	●	

• DV/DVF available in globe, angle, slip x slip, and male x barb configurations. • Flows below 0.68 m³/h; 0.19 l/s install 200 mesh filter upstream. • I/E = Internal/External
 • The PESB-R and EFB-CP are specifically designed with chlorine-resistant components for reclaimed water applications.





Flow Meters and Sensors

Sensors & Meters Compatibility Matrix											
Accessory	Description	ESP9V	TBOSBT	RC2	ESPTM2	ESPME3	ESPLXME2	ESPLXME2P	ESPLXD	ESPLXIVM	ESPLXIVMP
Weather Sensors & Stations											
RSD-BEx	Wired Rain Sensor	●	●	●	●	●	●	●	●	●	●
WR2	Wireless Rain/Freeze Sensor			●	●	●	●	●	●	●	●
SMRT-Y	Soil Moisture Sensor				●	●	●	●			
ANEMOMETER	Wind Speed Sensor						● ¹	● ¹	● ¹	● ¹	● ¹
Flow Meters & Sensors											
FG100	1" PVC Flow Sensor					●	●	●	●	●	●
FS100P	1" PVC Tee Flow Sensor					●	●	●	●	●	●
FS150P	1½" PVC Tee Flow Sensor					●	●	●	●	●	●
FS200P	2" PVC Tee Flow Sensor					●	●	●	●	●	●
FS300P	3" PVC Tee Flow Sensor					●	●	●	●	●	●
FS400P	4" PVC Tee Flow Sensor					●	●	●	●	●	●
FS100B	1" Brass Tee Flow Sensor					●	●	●	●	●	●
FS150B	1½" Brass Tee Flow Sensor					●	●	●	●	●	●
FS200B	2" Brass Tee Flow Sensor					●	●	●	●	●	●
FSINSERT	Replacement insert for tee sensors					●	●	●	●	●	●
FS350B	Insert Flow Sensor					●	●	●	●	●	●
UFS100	1" Ultrasonic Flow Sensor					●	●	●	●	●	●
UFS150	1½" Ultrasonic Flow Sensor					●	●	●	●	●	●
UFS200	2" Ultrasonic Flow Sensor					●	●	●	●	●	●

¹ Requires PT5002 Pulse Transmitter











Quick Selection Guide



Controllers



Major Products	     							
Primary Applications	RC2	ESP-TM2	ESP-ME3	ESP-9V	ESP-LXIVM/PRO	LXME2/PRO	ESP-LXD	TBOS BT
Residential	•	•	•	•				
Commercial					•	•	•	•
Type of Controller								
Battery Operated				•				•
Indoor Location	•	•	•		•	•	•	
Outdoor Location	•	•	•		•	•	•	
Features								
Stations (up to)	8	12	22	6	60/240	48	200	6
Programs (up to)	3	3	4	6	10/40	40	4	3
Station Timing (up to)	6 hr	6 hr ¹	6 hr ¹	12 hr	96 hr	96 hr ¹	12 hr ¹	12 hr
Number of Starts per Program (up to)	4	4	6	6	8	10	8	8
Surge protection	•	•	•		•	•	•	
230VAC Option	•	•	•		•	•	•	
Master Valve/Pump Start	•	•	•	Multi-station models only	• ²	• ²	• ²	
Water Budgeting	•	•	•	•	• ⁴	• ⁴	• ⁴	•
Individual Program/Zone Shut-Off	•	•	•		•	•	•	
Rain Delay	•	•	•		•	•	•	
Mobile App Programmable	•	• ⁷	•		•	•	•	•
Sensor Terminals, Status Indicator and Override	•	•	•	•	•	•	•	
Delay Between Stations (up to)		9 hrs	9 hrs		0 - 60 min.	0 - 60 min.	0 - 10 min.	
Flow Sensing			•		•	• ⁵	•	
Simultaneous Multi-Station Operation					•	•	•	•
Cycle + Soak™	•		• ⁶		•	•	•	
Overlapping Programs				•	•	•	•	
Manual On/Off	•	•	•	•	•	•	•	•
Remote Control Compatible	•	•	•		•	•	•	
Diagnostic Test					•	•	•	
Diagnostic Valve Circuit Breaker	•	•	•		•	•	•	
Out-of-Valve Box Programming								•
Submersible (up to)					3.3 ft (1 m)			3.3 ft (1 m)
Vandal/Tamper Resistant								•
Self-Cleaning Solenoid								•
Low Battery Indicator				•				•
Save / Restore Programs	•	•	•	•	•	•	•	•
Master Valve ON/OFF by Station	•	•	•		•	•	•	•
Total Run Time Calculator by Program			•		•	•	•	•
Bypass Rain Sensor by Station	•	•	•		•	•	•	
Programming Schedule								
7 Day-of-Week	•	•	•	•	•	•	•	•
1-7 Variable Cycle	•	•	•	•	•	•	•	•
1-31 Variable Cycle	•	•	•	•	•	•	•	•
Odd/Even Cycle	•	•	•	•	•	•	•	•
Odd 31st	•	•	•	•	•	•	•	•
365-Day Calendar	•	•	•	•	•	•	•	
Event Day Off					•	•	•	
Central Control Compatibility								
IQ™ Upgradeable					•	•	•	
Cabinet								
Plastic-Indoor	•	•	•					
Plastic-Outdoor	•	•	•	•	•	•	•	•
Powder-Coated Metal Outdoor					•	•	•	
Stainless Steel Pedestal					•	•	•	
Powder-Coated Metal Pedestal					•	•	•	
Hardware/Accessories								
Two-Wire Devices and Accessories					•		•	
Rain Sensing (need Rain Sensor)	•	•	•	•	•	•	•	•
Flow Sensing (need Flow Sensor)			•		•	LXME2 PRO Only	•	
SMRT-Y Soil Moisture Sensor	•	•	•					








¹With water budgeting, timing can be extended ²Programmable by station ³6 independent start times per zone ⁴Selectable for each program and by month ⁵With Flow Smart Module ⁶IQ only
⁷Only with LNK2 WIFI Module





Micro-Irrigation Dripline



XF Series Dripline					
DRIPLINE PRODUCT	 XFS-CV DRIPLINE	 XFCV DRIPLINE	 XFS DRIPLINE	 XFD DRIPLINE	 XFDe DRIPLINE
PRESSURE COMPENSATING EMITTERS	✓	✓	✓	✓	✓
COMPATIBLE WITH XF DRIPLINE INSERT FITTINGS	✓	✓	✓	✓	✓
COMPATIBLE WITH QF HEADER	✓	✓	✓	✓	✓
CHECK VALVE IN EVERY EMITTER	✓	✓			
COPPER SHIELD TO PREVENT ROOT INTRUSION (SUBSURFACE)	✓		✓		
EXTRA-LONG LATERAL RUN LENGTHS					✓
DRIPLINE FEATURES	 XFS-CV DRIPLINE <ul style="list-style-type: none"> • Heavy-Duty 4.3 psi Check Valve provides 10 ft. of holdback • Copper Shield™ emitter prevents root intrusion • Longer lateral runs • Exceptional durability • Available in purple and purple stripe for non-potable water 	 XFCV DRIPLINE <ul style="list-style-type: none"> • 3.5 psi Check Valve provides 8 ft. of holdback • Longer lateral runs • Exceptional durability 	 XFS DRIPLINE <ul style="list-style-type: none"> • Copper Shield™ emitter root intrusion • Exceptional durability • Available in purple and purple stripe for non-potable water 	 XFD DRIPLINE <ul style="list-style-type: none"> • Greater flexibility • Longer lateral runs • Exceptional durability • Available in purple and purple stripe for non-potable water 	 XFDe DRIPLINE <ul style="list-style-type: none"> • Longer lateral runs • Maximum flexibility and kink resistance





Micro-Irrigation Emission Devices



Emission Device	Applications	PC	Spray Pattern	Radius	Flow Rate	Inlet
DENSE PLANTING SCHEME						
Xeri Sprays/ Misters 	Ideal for ground cover, mass plantings, annual flower beds	No	Qtr circle stream	0 to 3.2m	0 to 109.8 l/h @ 2.07 psi	10-32
			Half circle stream			
			Full circle stream	0 to 4.1m		
			Full circle mist			
Xeri 360 True Spray 	Ideal for ground cover, mass plantings, annual flower beds	No	Full circle Fan	0 to 2m	0 to 64 l/h at 100 kPa 0 to 92.7 l/h at 200 kPa	Spike Barb 10-32
SQ Series Nozzles 	Commercial grade Small or defined areas with dense plantings	Yes	Square Pattern Qtr	Adjustable 0.8 m or 1.2 m	22.7 l/hr	Thread
			Square Pattern Hlf		45.4 l/hr	
			Square Pattern 3 Qtr		68.1 l/hr	
			Square Pattern Ful		90.8 l/hr	
SPARSE PLANTING SCHEME						
Xeri Bug Emitters 	Low flow emitters for watering the root zones of individual plants, shrubs, and trees	Yes	Drip	Drip	3.79 l/h, 7.57 l/h 1.89 l/h, 3.79 l/h, 7.57 l/h 1.89 l/h, 3.79 l/h, 7.57 l/h	15/21 FPT Barb 10-32
Xeri Bug Emitters w/ Check Valve 	Low flow emitters for watering the root zones of individual plants, shrubs, trees, containers and hanging baskets, especially when elevated or on a slope	Yes	Drip	Drip	1.89 l/h, 3.79 l/h, 7.57 l/h	Barb
					1.89 l/h, 3.79 l/h, 7.57 l/h	10-32
Xeri Bug Multi Outlet 	Use for watering the root zones of plants and trees and container plants	Yes	Drip	Drip	1.89 l/h, 3.79 l/h, 7.57 l/h 1.89 l/h, 3.79 l/h, 7.57 l/h	15/21 FPT Barb
PC Modules 	Watering larger shrubs and trees with higher water requirements	Yes	Drip	Drip	18.93 l/h, 26.50 l/h, 37.85 l/h	15/21 FPT
					18.93 l/h, 26.50 l/h, 37.85 l/h	Barb
					45.42 l/h, 68.13 l/h, 90.84 l/h	
					18.93 l/h, 26.50 l/h, 37.85 l/h	10-32
Xeri Bubblers 	Ideal for shrubs, trees, containers and flower beds. Use anywhere clogging is a concern or there is heavy mineral content in the water	No	180 stream	0-0.67m radius	0 to 49.21 l/h at 2.1 bar 0 to 30 l/h at 1 bar	Spike Barb 10-32
			360 stream	0-0.9m diameter	0 to 49.21 l/h at 2.1 bar 0 to 30 l/h at 1 bar	Spike Barb 10-32
			360 umbrella	0-0.9m diameter	0 to 132.48 l/h at 2.1 bar 0 to 98 l/h at 1 bar	Spike Barb 10-32





Micro-Irrigation Installation Options



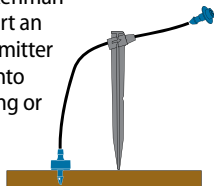
Using a Barbed Emitter with Drip Tubing



Using a Xeriman™ Tool, insert an barbed emitter directly into drip tubing or between dripline emitters.



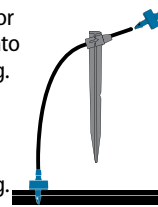
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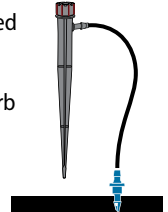
Barbed Connections to Sprays and Bubblers



A barbed connector can be punched into distribution tubing. The emitter is then placed at the end of the 6mm distribution tubing.



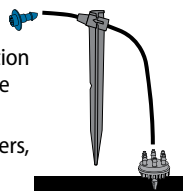
Connect a spiked emitter (on a stake) to drip tubing via a barb connector and 6mm tubing.



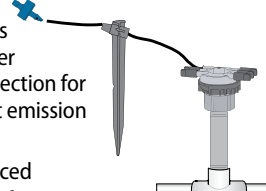
Centralizing Distribution Connections



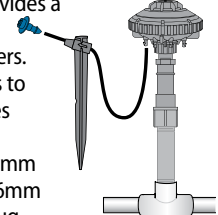
The Multi-Outlet Xeri-Bug™ provides centralized water distribution for up to six plants with the same flow rate. Install as with single emitters, by connecting the 6mm distribution tubing to one of the outlets.



The 6 Outlet Manifold provides a centralized water distribution connection for up to six different emission devices. The emitter is placed on the end of the 6mm distribution tubing to regulate the water flow.



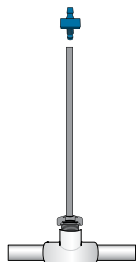
The Xeri-Bird™ 8 provides a centralized location for up to eight emitters. Use a mix of emitters to provide the flow rates needed for different plants. Tentacles of 6mm distribution tubing, 6mm tubing stakes, and bug caps allow for precise water placement.



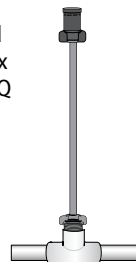
Threaded Emitters on Risers



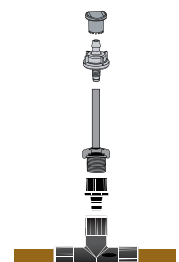
Use a 10-32 threaded emitter with a PolyFlex Riser Assembly



The SQ can be connected to PE or PVC via a PolyFlex Riser Assembly with an SQ ADP adapter.







Use an Easy Fit Tee and Female Adapter, to attach a PolyFlex riser with 10-32 thread emitter to drip tubing. Add a PC Diffuser Cap to eliminate squirting as needed.





Micro-Irrigation Control Zone Kits



Residential Control Zone Kits													
	Model	Operating Flow Range	Flow Rate Capability (3.5 l/h dripline with 3.5cm emitter spacing)	Inlet / Outlet	Valve	Controller Compatibility ¹				Inlet Pressure	Regulated Pressure	Filter Type	Size
						Traditionally Wired	TBOS/DC	IVM	2-Wire Decoders				
Residential Low Flow	 XCZ-075-PRF	0.8 to 18.91 l/m (0.2 to 5 gpm)	4m to 91m of dripline	3/4" x 3/4" NPT	LFV075	Y	Y			1.4 to 10.3 bar (20 to 150 psi)	2.1 bar (30 psi)	Stainless steel screen filter; 75 micron (200 mesh)	25.4 cm Length
	 ICZ-075-9V			3/4" x 3/4" NPT/ BSP	LFV075TBOS	Y	Y		Y				
Residential Medium Flow	 IXCZ-100-PRF	11.4 to 56.8 l/m (3 to 15 gpm)	61m to 305m of dripline	1" x 1" BSP	100DV8SP	Y	Y			1.4 to 10.3 bar (20 to 150 psi)	2.8 bar (40 psi)	Stainless steel screen filter; 75 micron (200 mesh)	25.4 cm Length
	 ICZ-100-9V				100DVTBOS	Y	Y		Y				

¹Controller Compatibility Definitions - **Bold** represents compatibility out of the box.

- Compatible with traditionally-wired controllers with traditional solenoid.
- Compatible with TBOS/DC controller when used with DC latching solenoid.
- Compatible with IVM controllers (ESP-LXIVM/LXIVMP) when used with IVM SOL.
- Compatible with 2-wire decoder systems like ESP-LXD controller.





Micro-Irrigation

Root Watering System (RWS)

Root Watering System promotes deep root growth, healthy tree development, and accelerated growth

Models / Specifications *(Select models shown. Review your regional price list for complete availability)*

Model	Bubbler	Check Valve*	Swing Assembly w/ ½" (15/21) M NPT inlet	Spiral Barb Elbow w/ ½" (15/21) M NPT inlet
91.4 cm Root Watering System (with 10.2 cm vandal-resistant locking grate)				
RWS	Ideal for ¼" drip tubing or customer provided hardware	-	-	-
RWS-B-C-1401	57 l/h	✓ (91.4 cm)	✓	-
RWS-B-1401	57 l/h	-	✓	-
RWS-B-C-1402	114 l/h	✓ (91.4 cm)	✓	-
RWS-B-1402	114 l/h	-	✓	-
RWS-B-C-1404	228 l/h	✓ (91.4 cm)	✓	-
41.7 cm Root Watering System - Mini (with 10.2 cm vandal-resistant locking grate)				
RWS-M	Ideal for ¼" drip tubing or customer provided hardware	-	-	-
RWS-M-B-C-1401	57 l/h	✓ (45.7 cm)	-	✓
RWS-M-B-1401	57 l/h	-	-	✓
RWS-M-B-C-1402	114 l/h	✓ (45.7 cm)	-	✓
RWS-M-B-1402	114 l/h	-	-	✓
25.4 cm Root Watering System - Supplemental (with 5.1 cm snap-on cap and base)				
RWS-S-B-C-1401	57 l/h	✓ (25.4 cm)	-	✓
RWS-S-B-1401	57 l/h	-	-	✓
Root Watering - Accessories				
RWS-SOCK (Root Watering Sock)				
RWS- GRATE-P (Root Watering System Purple Grate for RWS and RWS Mini)				

* Check Valve is 4.3 m of holdback, or 0.4 bar





Spray Bodies



1800® Series

The #1 irrigation spray head in the world



1800 Series



How to Specify

1804 SAM-PRS

Option

SAM: Seal-A-Matic™ check valve
PRS: Pressure regulator (30psi)
P45: Pressure regulator (45psi)

Pop-up Height

1802: 5 cm (2") pop-up height
1804: 10 cm (4") pop-up height
1806: 15 cm (6") pop-up height
1812: 30 cm (12") pop-up height

Model

1800 Series Spray Bodies

1800®-SAM, 1800®-PRS, 1800®-P45, 1800®-SAM-PRS, 1800®-SAM-P45 Series

5.8 cm, 7.6 cm, 10.2 cm, 15.2 cm, 30.5 cm (2", 3", 4", 6", 12")

1800®-SAM Models

- 1804-SAM: 10 cm (4") pop-up height
- 1806-SAM: 15 cm (6") pop-up height
- 1812-SAM: 30 cm (12") pop-up height

1800®-PRS Models

- 1802 PRS: 5.8 cm (2") pop-up height
- 1803 PRS: 7.6 cm (3") pop-up height
- 1804 PRS: 10 cm (4") pop-up height
- 1806 PRS: 15 cm (6") pop-up height
- 1812 PRS: 30 cm (12") pop-up height

1800®-P45 Models

- 1804 P45: 10 cm (4") pop-up height
- 1806 P45: 15 cm (6") pop-up height
- 1812 P45: 30 cm (12") pop-up height

1800®-SAM-PRS Models

- 1804-SAM-PRS: 10 cm (4") pop-up height
- 1806-SAM-PRS: 15 cm (6") pop-up height
- 1812-SAM-PRS: 30 cm (12") pop-up height

1800®-SAM-P45 Models

- 1804-SAM-P45: 10 cm (4") pop-up height
- 1806-SAM-P45: 15 cm (6") pop-up height
- 1812-SAM-P45: 30 cm (12") pop-up height



1800-SAM



1800-PRS



1800-PRS-45



1800-SAM-PRS



1800-SAM-P45





Spray Bodies

RD1800™ Series Spray Heads

Robust Design for Harsh Applications

Models

10 cm (4")	15 cm (6")	30 cm (12")
RD04-NP	-	RD12-NP
RD04-S-P-30-NP	RD06-S-P-30-NP	RD12-S-P-30-NP
RD04-S-P-30-F	RD06-S-P30-F	RD12-S-P-30-F
RD04-S-P-30-F-NP	RD06-S-P-30-F-NP	RD12-S-P-30-F-NP
RD04-S-P-45-NP	RD06-S-P-45-NP	RD12-S-P-45-NP
RD04-S-P-45-F	RD06-S-P-45-F	RD12-S-P-45-F
RD04-S-P-45-F-NP	RD06-S-P-45-F-NP	RD12-S-P-45-F-NP



Standard Cover



Non-Potable Cover



RD1800 Series

How to Specify

RD-XX - X - Nozzle

Nozzle
See R-VAN, U-Series, MPR, VAN, HE-VAN and SQ Nozzle specifications for more information

Optional Features

- S: Seal-A-Matic™ check valve
- P30: 30 psi (2.1 bar) in-stem pressure regulation
- P45: 45 psi (3.1 bar) in-stem pressure regulation
- F: Flow-Shield™ Technology
- NP: Non-potable water use indicating cover

Model

- RD-04: 4" (10 cm) pop-up height
- RD-06: 6" (15 cm) pop-up height
- RD-12: 12" (30.5 cm) pop-up height

Notes:

Specify sprinkler bodies and nozzles separately.





Spray & Rotary Nozzles



R-VAN Nozzles

High Efficiency, Multi-Stream

2.4m to 4.6m

4.0m to 5.5m

5.2m to 7.3m

Strip Nozzles



R-VAN14
45° - 270°



R-VAN14-360
360°



R-VAN18
45° - 270°



R-VAN18-360
360°



R-VAN24
45° - 270°



R-VAN24-360
360°



R-VAN-LCS
1.5 x 4.6m
Left Corner Strip



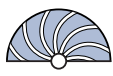



R-VAN-SST
1.5 x 9.1m
Side Strip







R-VAN-RCS
1.5 x 4.6m
Right Corner Strip


2.4 to 4.6m Adjustable Arc Nozzles (45° to 270°)

R-VAN14 2.4 to 4.6m						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
270° 	2.1	4.0	0.19	3.18	16	19
	2.4	4.0	0.20	3.29	17	19
	2.8	4.3	0.21	3.48	15	18
	3.1	4.3	0.21	3.56	16	18
	3.4	4.6	0.25	4.20	16	19
210° 	2.1	4.0	0.15	2.46	16	19
	2.4	4.0	0.15	2.57	17	19
	2.8	4.3	0.16	2.73	15	18
	3.1	4.3	0.17	2.76	16	18
	3.4	4.6	0.20	3.26	16	19
180° 	2.1	4.0	0.13	2.12	16	19
	2.4	4.0	0.13	2.20	17	19
	2.8	4.3	0.14	2.31	15	18
	3.1	4.3	0.14	2.38	16	18
	3.4	4.6	0.17	2.80	16	19
90° 	2.1	4.0	0.06	1.06	16	19
	2.4	4.0	0.07	1.10	17	19
	2.8	4.3	0.07	1.17	16	18
	3.1	4.3	0.07	1.21	15	18
	3.4	4.6	0.08	1.40	16	19
3.8	4.6	0.09	1.48	17	20	


4.0 to 5.5m Adjustable Arc Nozzles (45° to 270°)

R-VAN18 4.0 to 5.5m						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
270° 	2.1	4.9	0.29	4.77	17	19
	2.4	4.9	0.31	5.11	16	19
	2.8	5.2	0.32	5.38	16	19
	3.1	5.2	0.34	5.72	16	19
	3.4	5.5	0.36	5.94	15	18
210° 	2.1	4.9	0.22	3.71	16	19
	2.4	4.9	0.24	3.97	17	20
	2.8	5.2	0.25	4.16	16	19
	3.1	5.2	0.27	4.43	16	20
	3.4	5.5	0.28	4.62	16	18
180° 	2.1	4.9	0.19	3.22	17	19
	2.4	4.9	0.21	3.44	16	19
	2.8	5.2	0.22	3.71	16	19
	3.1	5.2	0.23	3.82	16	19
	3.4	5.5	0.24	4.05	15	18
90° 	2.1	4.9	0.10	1.59	17	19
	2.4	4.9	0.11	1.78	16	19
	2.8	5.2	0.11	1.89	16	19
	3.1	5.2	0.11	1.89	16	19
	3.4	5.5	0.12	2.04	15	18
3.8	5.5	0.13	2.20	15	18	

2.4 to 4.6m Full Circle Nozzles (360°)

R-VAN14-360 2.4 to 4.6m						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
360° 	2.1	4.0	0.25	4.16	16	18
	2.4	4.0	0.25	4.24	16	19
	2.8	4.3	0.28	4.62	15	18
	3.1	4.3	0.29	4.81	16	18
	3.4	4.6	0.32	5.34	15	18
	3.8	4.6	0.33	5.49	16	18

4.0 to 5.5m Full Circle Nozzles (360°)

R-VAN18-360 4.0 to 5.5m						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
360° 	2.1	4.9	0.38	6.25	16	18
	2.4	4.9	0.38	6.32	16	19
	2.8	5.2	0.41	6.81	15	18
	3.1	5.2	0.42	7.00	16	18
	3.4	5.5	0.47	7.76	15	18
	3.8	5.5	0.48	7.99	16	18

Note: All R-VAN nozzles tested on 10 cm pop-ups

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data taken in zero wind conditions

R-VAN24 and R-VAN24-360: "Do not reduce the radius below 5.2 m

R-VAN18 and R-VAN18-360: "Do not reduce the radius below 4.0 m

R-VAN14 and R-VAN14-360: "Do not reduce the radius below 2.4 m









Spray & Rotary Nozzles




R-VAN Nozzles (continued)

High Efficiency, Multi-Stream

5.2 to 7.3m Adjustable Arc Nozzles (45° to 270°)

R-VAN24 5.2 to 7.3m						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
270° 	2.1	5.8	0.41	6.81	16	19
	2.4	6.1	0.44	7.38	16	18
	2.8	6.7	0.52	8.74	15	18
	3.1	7.0	0.57	9.54	15	18
	3.4	7.3	0.64	10.67	16	19
3.8	7.3	0.65	10.90	16	19	
210° 	2.1	5.8	0.32	5.30	16	19
	2.4	6.1	0.35	5.75	16	18
	2.8	6.7	0.41	6.81	15	18
	3.1	7.0	0.45	7.42	15	18
	3.4	7.3	0.50	8.29	16	19
3.8	7.3	0.51	8.48	16	19	
180° 	2.1	5.8	0.27	4.54	16	19
	2.4	6.1	0.30	4.92	16	18
	2.8	6.7	0.35	5.83	15	18
	3.1	7.0	0.38	6.36	15	18
	3.4	7.3	0.43	7.12	16	19
3.8	7.3	0.44	7.27	16	19	
90° 	2.1	5.8	0.14	2.27	16	19
	2.4	6.1	0.15	2.46	16	18
	2.8	6.7	0.17	2.91	15	18
	3.1	7.0	0.19	3.18	15	18
	3.4	7.3	0.21	3.56	16	19
3.8	7.3	0.22	3.63	16	19	

5.2 to 7.3m Full Circle Nozzles (360°)

R-VAN24-360 5.2 to 7.3m						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
360° 	2.1	5.8	0.53	8.90	16	18
	2.4	6.1	0.57	9.54	15	18
	2.8	6.7	0.71	11.85	16	18
	3.1	7.0	0.79	13.17	16	19
	3.4	7.3	0.82	13.67	15	18
	3.8	7.3	0.85	14.16	16	18

Note: All R-VAN nozzles tested on 10 cm pop-ups

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw


Performance data taken in zero wind conditions


R-VAN24 and R-VAN24-360: "Do not reduce the radius below 5.2 m


R-VAN18 and R-VAN18-360: "Do not reduce the radius below 4.0 m

R-VAN14 and R-VAN18-360: "Do not reduce the radius below 2.4 m

Strip Nozzles (Left Corner, Side, Right Corner)

R-VAN-LCS 1.5 x 4.6m						
Nozzle	Pressure bar	Size m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
Left Corner Strip 	2.1	1.2x4.3	0.04	0.68	16	16
	2.4	1.5x4.6	0.05	0.83	14	14
	2.8	1.5x4.6	0.05	0.87	15	15
	3.1	1.5x4.6	0.05	0.91	16	16
	3.4	1.5x4.6	0.06	0.95	16	16
	3.8	1.8x4.9	0.06	1.06	14	14

R-VAN-RCS 1.5 x 4.6m						
Nozzle	Pressure bar	Size m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
Right Corner Strip 	2.1	1.2x4.3	0.04	0.68	16	16
	2.4	1.5x4.6	0.05	0.83	14	14
	2.8	1.5x4.6	0.05	0.87	15	15
	3.1	1.5x4.6	0.05	0.91	16	16
	3.4	1.5x4.6	0.06	0.95	16	16
	3.8	1.8x4.9	0.06	1.06	14	14

R-VAN-SST 1.5 x 9.1m						
Nozzle	Pressure bar	Size m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
Side Strip 	2.1	1.2x8.5	0.08	1.36	16	16
	2.4	1.5x9.1	0.10	1.67	14	14
	2.8	1.5x9.1	0.10	1.74	15	15
	3.1	1.5x9.1	0.11	1.82	16	16
	3.4	1.5x9.1	0.11	1.89	16	16
	3.8	1.8x9.8	0.13	2.12	14	14

Note: All R-VAN nozzles tested on 10 cm pop-ups

Performance data taken in zero wind conditions

— Straight-line spacing based on 50% overlap of throw for LCS, SST, and RCS

▲ Triangular spacing based on 50% overlap of throw for LCS, SST, and RCS





Spray & Rotary Nozzles



HE-VAN Series Nozzles

High-Efficiency Variable Arc
Spray Nozzles

Models

- HE-VAN-08: 1.8 to 2.4 m
- HE-VAN-10: 2.4 to 3.0 m
- HE-VAN-12: 2.7 to 3.7 m
- HE-VAN-15: 3.7 to 4.6 m

HE-VAN Nozzles meet the standard for high-efficiency nozzles.			
The average DU(LQ) of the applicable products exceed 0.65 distribution uniformity.			
Product	Type	Radius	DU(LQ)
HE-VAN	Spray, Variable Arc	1.8m - 4.6m	> 0.70

How to Specify

HE-VAN-15

Radius Range
8: 1.8 to 2.4 m
10: 2.4 to 3.0 m
12: 2.7 to 3.7 m
15: 3.7 to 4.6 m

Feature
VAN: Variable Arc

Model
High-Efficiency Nozzle

8 Series HE-VAN						
24° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
	1.0	1.5	0.19	3.14	82	95
	1.4	1.8	0.22	3.62	66	76
	1.7	2.1	0.25	4.05	54	62
	2.1	2.4	0.27	4.43	45	52
	1.0	1.5	0.14	2.35	82	95
	1.4	1.8	0.16	2.72	66	76
	1.7	2.1	0.18	3.04	54	62
	1.0	1.5	0.10	1.57	82	95
	1.4	1.8	0.11	1.81	66	76
	1.7	2.1	0.12	2.02	54	62
	2.1	2.4	0.13	2.22	45	52
	1.0	1.5	0.05	0.78	82	95
	1.4	1.8	0.05	0.91	66	76
	1.7	2.1	0.06	1.01	54	62
	2.1	2.4	0.07	1.11	45	52

12 Series HE-VAN						
23° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
	1.0	2.7	0.38	6.33	50.5	58.3
	1.4	3.0	0.44	7.31	47.3	54.6
	1.7	3.4	0.49	8.18	43.7	50.4
	2.1	3.7	0.54	8.96	40.2	46.4
	1.0	2.7	0.28	4.75	50.5	58.3
	1.4	3.0	0.33	5.48	47.3	54.6
	1.7	3.4	0.37	6.16	43.7	50.4
	1.0	2.7	0.19	3.17	50.5	58.3
	1.4	3.0	0.22	3.66	47.3	54.6
	1.7	3.4	0.25	4.09	43.7	50.4
	2.1	3.7	0.27	4.48	40.2	46.4
	1.0	2.7	0.09	1.58	50.5	58.3
	1.4	3.0	0.11	1.83	47.3	54.6
	1.7	3.4	0.12	2.04	43.7	50.4
	2.1	3.7	0.13	2.24	40.2	46.4

10 Series HE-VAN						
27° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
	1.0	2.1	0.29	4.78	64	74
	1.4	2.4	0.34	5.52	56	65
	1.7	2.7	0.37	6.17	50	57
	2.1	3.1	0.41	6.76	44	51
	1.0	2.1	0.22	3.59	64	74
	1.4	2.4	0.25	4.14	56	65
	1.7	2.7	0.28	4.63	50	57
	1.0	2.1	0.15	2.39	64	74
	1.4	2.4	0.17	2.76	56	65
	1.7	2.7	0.19	3.09	50	57
	2.1	3.1	0.21	3.38	44	51
	1.0	2.1	0.07	1.20	64	74
	1.4	2.4	0.08	1.38	56	65
	1.7	2.7	0.09	1.54	50	57
	2.1	3.1	0.10	1.69	44	51

15 Series HE-VAN						
25° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
	1.0	3.4	0.59	9.91	52.9	61.1
	1.4	3.7	0.69	11.44	51.3	59.3
	1.7	4.3	0.77	12.79	42.2	48.7
	2.1	4.6	0.84	14.01	40.2	46.5
	1.0	3.4	0.45	7.43	52.9	61.1
	1.4	3.7	0.51	8.58	51.3	59.3
	1.7	4.3	0.58	9.59	42.2	48.7
	1.0	3.4	0.30	4.95	52.9	61.1
	1.4	3.7	0.34	5.72	51.3	59.3
	1.7	4.3	0.38	6.39	42.2	48.7
	2.1	4.6	0.42	7.00	40.2	46.5
	1.0	3.4	0.15	2.48	52.9	61.1
	1.4	3.7	0.17	2.86	51.3	59.3
	1.7	4.3	0.19	3.20	42.2	48.7
	2.1	4.6	0.21	3.50	40.2	46.5

Note: All HE-VAN nozzles tested on 10 cm pop-ups
 ■ Square spacing based on 50% diameter of throw
 ▲ Triangular spacing based on 50% diameter of throw

Performance data taken in zero wind conditions
Note: Radius reduction over 25% of the normal throw of the nozzle is not recommended





Spray & Rotary Nozzles



VAN Series Nozzles

Variable Arc Nozzle

Models





- 4-VAN Series: 0.9 to 1.2 m
- 6-VAN Series: 1.2 to 1.8 m
- 8-VAN Series: 1.8 to 2.4 m
- 10-VAN Series: 2.1 to 3.1 m
- 12-VAN Series: 2.7 to 3.7 m
- 15-VAN Series: 3.4 to 4.6 m
- 18-VAN Series: 4.3 to 5.5 m





How to Specify





8 VAN

Radius Range
 4: 0.9-1.2 m
 6: 1.2-1.8 m
 8: 1.8-2.4 m
 10: 2.1-3.0 m
 12: 2.7-3.7 m
 15: 3.4-4.6 m
 18: 4.3-5.5 m

Nozzle Type
 VAN: Variable Arc Nozzle

4 Series VAN						
0° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
330° Arc 	1.0	0.9	0.14	2.3	189	218
	1.5	1.0	0.17	2.8	183	215
	2.0	1.2	0.20	3.3	152	176
	2.1	1.2	0.20	3.3	152	176
270° Arc 	1.0	0.9	0.12	2.0	198	229
	1.5	1.0	0.14	2.3	187	216
	2.0	1.2	0.16	2.7	148	171
	2.1	1.2	0.17	2.8	157	181
180° Arc 	1.0	0.9	0.07	1.2	173	200
	1.5	1.0	0.09	1.5	180	208
	2.0	1.2	0.10	1.7	139	161
	2.1	1.2	0.10	1.7	139	161
90° Arc 	1.0	0.9	0.05	0.8	247	285
	1.5	1.0	0.06	0.9	240	277
	2.0	1.2	0.06	1.1	167	193
	2.1	1.2	0.07	1.1	194	224

6 Series VAN						
0° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
330° Arc 	1.0	1.2	0.19	3.2	144	166
	1.5	1.5	0.23	3.8	112	129
	2.0	1.8	0.27	4.5	91	105
	2.1	1.8	0.27	4.5	91	105
270° Arc 	1.0	1.2	0.18	3.0	167	193
	1.5	1.5	0.21	3.5	124	143
	2.0	1.8	0.24	4.1	99	114
	2.1	1.8	0.25	4.2	103	119
180° Arc 	1.0	1.2	0.10	1.6	139	161
	1.5	1.5	0.11	1.9	98	113
	2.0	1.8	0.13	2.2	80	92
	2.1	1.8	0.14	2.3	86	99
90° Arc 	1.0	1.2	0.06	1.0	167	193
	1.5	1.5	0.07	1.2	124	143
	2.0	1.8	0.08	1.4	99	114
	2.1	1.8	0.08	1.4	99	114

8 Series VAN						
5° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
330° Arc 	1.0	1.8	0.27	4.6	91	105
	1.5	2.1	0.32	5.4	79	91
	2.0	2.3	0.38	6.3	78	90
	2.1	2.4	0.39	6.4	74	86
270° Arc 	1.0	1.8	0.25	4.2	103	119
	1.5	2.1	0.30	4.9	91	105
	2.0	2.3	0.34	5.8	86	99
	2.1	2.4	0.35	5.9	81	94
180° Arc 	1.0	1.8	0.19	3.2	117	135
	1.5	2.1	0.23	3.8	104	120
	2.0	2.3	0.26	4.4	98	113
	2.1	2.4	0.27	4.5	94	109
90° Arc 	1.0	1.8	0.12	1.9	148	171
	1.5	2.1	0.14	2.3	127	147
	2.0	2.3	0.16	2.7	121	140
	2.1	2.4	0.16	2.7	111	128

Note: All VAN nozzles tested on 10 cm pop-ups
 ■ Square spacing based on 50% diameter of throw
 ▲ Triangular spacing based on 50% diameter of throw



VAN Series Nozzle

Performance data taken in zero wind conditions
Note: Radius reduction over 25% of the normal throw of the nozzle is not recommended





Spray & Rotary Nozzles



U-Series Nozzles

Dual orifice spray nozzles that use 30% less water¹

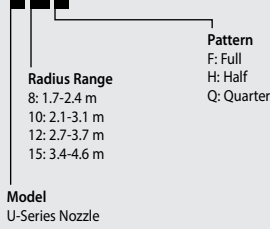
Models

- U-8 Series: 2.4m Quarter, Half, Full nozzles
- U-10 Series: 3.1m Quarter, Half, Full nozzles
- U-12 Series: 3.7m Quarter, Half, Full nozzles
- U-15 Series: 4.6m Quarter, Half, Full nozzles

¹ When U-Series dual-orifice nozzles are installed instead of standard nozzles on every spray body in the zone. Results may vary based on site-specific conditions such as sprinkler spacing, wind, temperature, soil and grass type.

How to Specify

U12H



U-Series Nozzles meet the standard for high-efficiency nozzles.

The average DU(LQ) of the applicable products exceed 0.65 distribution uniformity.

Product	Type	Radius	DU(LQ)
U-Series	Spray, Fixed Arc	1.8m - 4.6m	> 0.70



U8 Series						
10° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
	1.0	1.7	0.16	2.8	72	84
	1.5	2.1	0.20	3.4	58	68
	2.0	2.4	0.23	3.9	48	55
	2.1	2.4	0.24	4.0	40	46
	1.0	1.7	0.08	1.4	72	84
	1.5	2.1	0.10	1.7	57	66
	2.0	2.4	0.12	1.9	47	54
	2.1	2.4	0.12	2.0	40	46
	1.0	1.7	0.04	0.7	70	81
	1.5	2.1	0.05	0.8	57	66
	2.0	2.4	0.06	1.0	48	55
	2.1	2.4	0.06	1.0	40	46

U10 Series						
12° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
	1.0	2.1	0.26	4.4	52	60
	1.5	2.6	0.30	5.3	47	55
	2.0	3.0	0.34	6.1	41	48
	2.1	3.1	0.37	6.2	40	46
	1.0	2.1	0.13	2.2	52	60
	1.5	2.6	0.15	2.6	47	55
	2.0	3.0	0.17	3.1	41	48
	2.1	3.1	0.19	3.1	40	46
	1.0	2.1	0.07	1.1	52	60
	1.5	2.6	0.08	1.3	47	55
	2.0	3.0	0.08	1.5	41	48
	2.1	3.1	0.09	1.6	40	46

U12 Series						
23° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
	1.0	2.7	0.40	6.8	55	63
	1.5	3.2	0.48	8.3	47	54
	2.0	3.6	0.59	9.7	46	53
	2.1	3.7	0.60	9.8	44	51
	1.0	2.7	0.20	3.4	55	63
	1.5	3.2	0.24	4.2	47	54
	2.0	3.6	0.30	4.8	46	53
	2.1	3.7	0.30	4.9	44	51
	1.0	2.7	0.10	1.7	55	63
	1.5	3.2	0.12	2.1	47	54
	2.0	3.6	0.15	2.4	46	53
	2.1	3.7	0.15	2.5	44	51

U15 Series						
23° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
	1.0	3.4	0.60	9.8	52	60
	1.5	3.9	0.72	11.8	47	55
	2.0	4.5	0.84	13.7	41	48
	2.1	4.6	0.84	14.0	40	46
	1.0	3.4	0.30	4.9	52	60
	1.5	3.9	0.36	5.9	47	55
	2.0	4.5	0.42	6.9	41	48
	2.1	4.6	0.42	7.0	40	46
	1.0	3.4	0.15	2.5	52	60
	1.5	3.9	0.18	2.9	47	55
	2.0	4.5	0.21	3.4	41	48
	2.1	4.6	0.21	3.5	40	46

Note: All U-Series nozzles tested on 10 cm pop-ups
 ■ Square spacing based on 50% diameter of throw
 ▲ Triangular spacing based on 50% diameter of throw

Performance data taken in zero wind conditions
 Radius refers to recommended product spacing. Actual radii along arc may vary





Spray & Rotary Nozzles



MPR Spray Nozzles

Matched Precipitation Rate Nozzles

Models




- 5 Series: Quarter, Half, Full Nozzles
- 5 Series: Bubbler Nozzles
- 8 Series: Quarter, Half, Full Nozzles
- 8 FLT Series: Designed for lower trajectory applications, such as windy areas
- 10 Series Nozzles
- 12 Series Nozzles
- 15 Series: Quarter, Half, Full Nozzles
- 15 Strip Series Nozzles

How to Specify




5 F

Pattern
 F: Full
 H: Half
 Q: Quarter

MPR Radius Range
 5: 1.1-1.5 m
 8: 1.7-2.4 m
 10: 2.1-3.1 m
 12: 2.7-3.7 m
 15: 3.4-4.6 m

5 Series MPR						
5° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
5F 	1.0	1.1	0.06	1.1	79	91
	1.5	1.3	0.08	1.4	51	58
	2.0	1.5	0.09	1.6	57	65
	2.1	1.5	0.09	1.6	40	46
5H 	1.0	1.1	0.03	0.5	76	88
	1.5	1.3	0.04	0.7	49	56
	2.0	1.5	0.04	0.7	55	64
	2.1	1.5	0.05	0.9	39	45
5Q 	1.0	1.1	0.02	0.4	76	88
	1.5	1.3	0.02	0.4	49	56
	2.0	1.5	0.02	0.4	55	64
	2.1	1.5	0.02	0.4	39	45

Note: All MPR nozzles tested on 10 cm pop-ups
 ■ Square spacing based on 50% diameter of throw
 ▲ Triangular spacing based on 50% diameter of throw

8 Series MPR						
10° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
8F 	1.0	1.7	0.16	2.8	72	84
	1.5	2.1	0.20	3.4	58	68
	2.0	2.4	0.23	3.9	48	55
	2.1	2.4	0.24	4.0	40	46
8H 	1.0	1.7	0.08	1.4	72	84
	1.5	2.1	0.10	1.7	57	66
	2.0	2.4	0.12	1.9	47	54
	2.1	2.4	0.12	2.0	40	46
8Q 	1.0	1.7	0.04	0.7	70	81
	1.5	2.1	0.05	0.8	57	66
	2.0	2.4	0.06	1.0	48	55
	2.1	2.4	0.06	1.0	40	46

Performance data taken in zero wind conditions
 Note: Radius reduction over 25% of the normal throw of the nozzle is not recommended



Rain Bird® MPR Nozzles, The Industry Standard



MPR Nozzle and Screen














Spray & Rotary Nozzles







MPR Spray Nozzles (continued)



10 Series MPR						
15° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
	1.0	2.1	0.26	4.2	58	67
	1.5	2.4	0.29	4.8	50	58
	2.0	3.0	0.35	6.0	39	45
	2.1	3.1	0.36	6.0	37	43
	1.0	2.1	0.13	2.4	58	67
	1.5	2.4	0.14	2.4	50	58
	2.0	3.0	0.18	3.0	39	45
	2.1	3.1	0.18	3.0	37	43
	1.0	2.1	0.06	1.2	58	67
	1.5	2.4	0.07	1.2	50	58
	2.0	3.0	0.09	1.2	39	45
	2.1	3.1	0.09	1.2	37	43

12 Series MPR						
30° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
	1.0	2.7	0.40	6.8	55	63
	1.5	3.2	0.48	8.3	47	54
	2.0	3.6	0.59	9.7	46	53
	2.1	3.7	0.60	9.8	44	51
	1.0	2.7	0.20	3.4	55	63
	1.5	3.2	0.24	4.2	47	54
	2.0	3.6	0.30	4.9	46	53
	2.1	3.7	0.30	4.9	44	51
	1.0	2.7	0.10	1.7	55	63
	1.5	3.2	0.12	2.1	47	54
	2.0	3.6	0.15	2.4	46	53
	2.1	3.7	0.15	2.5	44	51

15 Series MPR						
30° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
	1.0	3.4	0.60	9.8	52	60
	1.5	3.9	0.72	11.8	47	55
	2.0	4.5	0.84	13.7	41	48
	2.1	4.6	0.84	14.0	40	46
	1.0	3.4	0.30	4.9	52	60
	1.5	3.9	0.36	5.9	47	55
	2.0	4.5	0.42	6.8	41	48
	2.1	4.6	0.42	7.0	40	46
	1.0	3.4	0.15	2.5	52	60
	1.5	3.9	0.18	2.9	47	55
	2.0	4.5	0.21	3.4	41	48
	2.1	4.6	0.21	3.5	40	46

15 Strip Series				
30° Trajectory				
Nozzle	Pressure bar	W x L m	Flow m ³ /h	Flow l/m
	1.0	1.2 x 4.0	0.10	1.7
	1.5	1.2 x 4.3	0.11	2.0
	2.0	1.2 x 4.3	0.13	2.3
	2.1	1.2 x 4.6	0.14	2.3
	1.0	1.2 x 7.9	0.20	3.4
	1.5	1.2 x 8.5	0.23	4.0
	2.0	1.2 x 8.5	0.25	4.5
	2.1	1.2 x 9.2	0.27	4.6
	1.0	0.8 x 3.2	0.08	1.3
	1.5	1.0 x 3.9	0.09	1.6
	2.0	1.2 x 4.5	0.11	1.8
	2.1	1.2 x 4.6	0.11	1.9
	1.0	0.8 x 3.2	0.08	1.3
	1.5	1.0 x 3.9	0.09	1.6
	2.0	1.2 x 4.5	0.11	1.8
	2.1	1.2 x 4.6	0.11	1.9
	1.0	1.2 x 7.9	0.20	3.4
	1.5	1.2 x 8.5	0.23	4.0
	2.0	1.2 x 8.5	0.25	4.5
	2.1	1.2 x 9.2	0.27	4.6
	1.0	2.7 x 4.6	0.30	5.1
	1.5	2.7 x 4.9	0.33	5.8
	2.0	2.7 x 5.5	0.36	6.5
	2.1	2.7 x 5.5	0.39	6.5

Note: All MPR nozzles tested on 10 cm pop-ups

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data taken in zero wind conditions

Note: Radius reduction over 25% of the normal throw of the nozzle is not recommended





Spray & Rotary Nozzles



SQ Series Nozzles

Precise and efficient, low-volume spray nozzle for irrigation around the perimeter of trees or shrubs

Models

- SQ-QTR: SQ Nozzle, quarter pattern (Purple)
- SQ-HLF: SQ Nozzle, half pattern (Brown)
- SQ-3QTR: SQ Nozzle, three-quarter pattern (Gray)
- SQ-FUL: SQ Nozzle, full pattern (Red)
- SQ-ADP: SQ PolyFlex Riser Adapter only
- SQ-ADP12: SQ Nozzle Adapter with 12" PolyFlex Riser

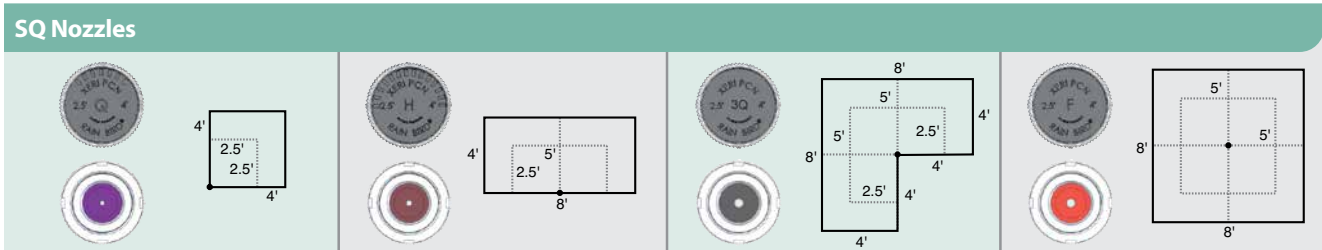


SQ Nozzles with Screens

SQ Nozzle Performance					
0.8 m throw @ 0.15 m height above grade					
Nozzle	Pressure bar	Throw Radius m	Flow lph	Flow lpm	Precip.Rate w/no overlap mm/h
Q	1.4	0.8	24	0.38	41.66
	2.1	0.8	28	0.45	48.26
	2.8	0.9	28	0.45	33.53
	3.4	0.9	28	0.45	33.53
H	1.4	0.8	39	0.64	33.27
	2.1	0.8	46	0.68	39.88
	2.8	0.9	52	0.68	30.99
3Q	1.4	0.8	61	1.01	34.77
	2.1	0.8	68	1.14	39.12
	2.8	0.9	79	1.32	31.69
F	1.4	0.8	76	1.25	32.51
	2.1	0.8	92	1.51	39.37
	2.8	0.9	103	1.74	30.99
F	3.4	0.9	103	1.74	30.99

SQ Nozzle Performance					
1.2 m throw @ 0.15 m height above grade					
Nozzle	Pressure bar	Throw Radius m	Flow lph	Flow lpm	Precip.Rate w/no overlap mm/h
Q	1.4	1.2	23	0.38	16.26
	2.1	1.2	26	0.45	18.80
	2.8	1.4	27	0.45	14.99
	3.4	1.4	27	0.45	14.99
H	1.4	1.2	39	0.64	12.95
	2.1	1.2	40	0.68	15.49
	2.8	1.4	40	0.68	13.72
	3.4	1.4	40	0.68	13.72
3Q	1.4	0.8	61	1.01	13.58
	2.1	0.8	68	1.14	15.28
	2.8	0.9	79	1.32	14.08
	3.4	0.9	79	1.32	14.08
F	1.4	1.2	76	1.25	12.70
	2.1	1.2	92	1.51	15.49
	2.8	1.4	103	1.74	13.72
	3.4	1.4	103	1.74	13.72

Performance data taken in zero wind conditions





Rotors



5000 Series

Engineered to be the Industry's Most Reliable and Best Performing Rotor

Models

Consult "How to Specify" table for product models and features.

Not all combinations are offered.

- 5004: 4" (10 cm) pop-up
- 5006: 6" (15 cm) pop-up
- 5012: 12" (30.5 cm) pop-up



5000 Series

How to Specify

5004 - + - PC - SAM-R-SS

Options

- SAM
- R: PRS
- SS: Stainless Steel

Rotation

- PC: Reversing Part Circle
- FC: Full Circle

Model

Plus (Flow Shut-off)

Model

- 5004: 4" (10 cm) pop-up
- 5006: 6" (15 cm) pop-up
- 5012: 12" (30.5 cm) pop-up

Note: Certain specifications not available for some rotor series.



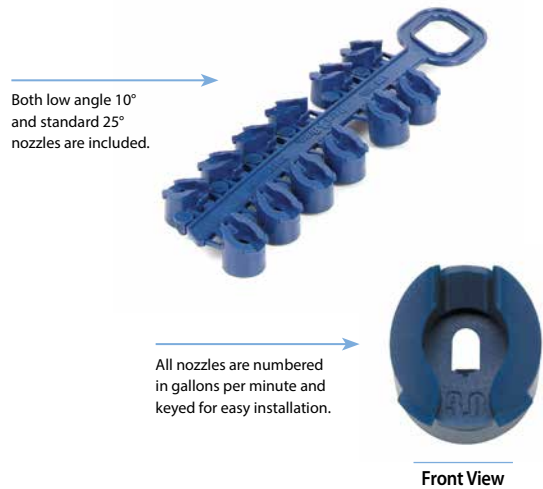


Rotors

5000 Series Std. Nozzles

5000 Series Std. Angle Rain Curtain™ Nozzle Performance						
Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
2.0	1.5	10.2	0.28	4.8	5	6
	2.0	10.8	0.36	6.0	6	7
	2.5	10.9	0.44	7.2	7	9
	3.0	11.2	0.55	9.0	9	10
	4.0	11.6	0.71	12.0	11	12
	5.0	12.1	0.91	15.0	13	15
	6.0	12.4	1.05	17.4	15	17
	8.0	11.8	1.45	24.0	32	37
2.5	1.5	10.4	0.31	5.4	6	7
	2.0	11.0	0.41	6.6	7	8
	2.5	11.3	0.50	8.4	8	9
	3.0	11.2	0.62	10.2	9	11
	4.0	12.3	0.81	13.2	11	13
	5.0	12.7	1.03	17.4	13	15
	6.0	13.2	1.21	20.4	14	16
	8.0	13.3	1.63	27.0	24	28
3.0	1.5	10.6	0.34	6.0	6	7
	2.0	11.2	0.45	7.8	7	8
	2.5	11.3	0.56	9.6	9	10
	3.0	12.1	0.69	11.4	9	11
	4.0	12.7	0.89	15.0	11	13
	5.0	13.5	1.13	18.6	12	14
	6.0	13.4	1.34	22.2	13	17
	8.0	13.4	1.79	30.0	23	27
3.5	1.5	10.7	0.37	6.0	7	8
	2.0	11.3	0.49	8.4	8	9
	2.5	11.3	0.60	10.2	9	11
	3.0	12.2	0.74	12.6	10	12
	4.0	12.8	0.97	16.2	12	14
	5.0	13.7	1.23	20.4	13	15
	6.0	14.2	1.45	24.0	13	15
	8.0	14.9	1.93	32.4	20	24
4.0	1.5	10.6	0.40	6.6	7	8
	2.0	11.1	0.52	9.0	8	10
	2.5	11.3	0.64	10.8	10	12
	3.0	12.2	0.80	13.2	11	12
	4.0	12.8	1.04	17.4	13	15
	5.0	13.7	1.32	22.2	14	16
	6.0	14.9	1.55	25.8	14	16
	8.0	15.2	2.06	34.2	21	25
4.5	1.5	10.4	0.42	7.2	8	9
	2.0	10.7	0.55	9.0	10	11
	2.5	11.3	0.68	11.4	11	12
	3.0	12.2	0.84	13.8	11	13
	4.0	12.8	1.10	18.0	13	15
	5.0	13.7	1.40	23.4	15	17
	6.0	14.6	1.64	28.2	15	18
	8.0	15.2	2.19	36.6	19	22

5000 Series Low Angle Nozzle Performance						
Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
1.7	1.0 LA	7.6	0.17	3.0	6	7
	1.5 LA	8.2	0.26	4.2	8	9
	2.0 LA	8.8	0.33	5.4	9	10
	3.0 LA	8.8	0.51	8.4	13	15
2.0	1.0 LA	8.0	0.18	3.0	6	6
	1.5 LA	8.6	0.28	4.8	8	9
	2.0 LA	9.1	0.36	6.0	9	10
	3.0 LA	9.3	0.55	9.0	13	15
2.5	1.0 LA	8.6	0.20	3.6	5	6
	1.5 LA	9.2	0.32	5.4	8	9
	2.0 LA	9.5	0.41	6.6	9	10
	3.0 LA	10.1	0.62	10.2	12	14
3.0	1.0 LA	8.8	0.22	3.6	6	7
	1.5 LA	9.4	0.35	6.0	8	9
	2.0 LA	9.7	0.45	7.8	10	11
	3.0 LA	10.6	0.68	11.4	12	14
3.5	1.0 LA	8.8	0.24	4.2	6	7
	1.5 LA	9.4	0.38	6.6	9	10
	2.0 LA	9.9	0.49	8.4	10	11
	3.0 LA	10.8	0.74	12.6	13	15
4.0	1.0 LA	8.8	0.26	4.2	7	8
	1.5 LA	9.4	0.41	6.6	9	11
	2.0 LA	10.1	0.52	9.0	10	12
	3.0 LA	11.0	0.80	13.2	13	15
4.5	1.0 LA	8.8	0.27	4.8	7	8
	1.5 LA	9.4	0.44	7.2	10	11
	2.0 LA	10.1	0.56	9.0	11	13
	3.0 LA	11.0	0.84	13.8	14	16



Precipitation rates based on half-circle operation
 ■ Square spacing based on 50% diameter of throw
 ▲ Triangular spacing based on 50% diameter of throw
 Performance data collected in zero wind conditions
 Performance data derived from tests that conform with ASABE Standards; ASABE S398.1.





5000 Series PRS Nozzles

5000 PRS Std. Angle Rain Curtain™ Nozzle Performance						
Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
1.7	1.5	10.1	0.25	4.2	5	6
	2.0	10.7	0.34	5.4	6	7
	2.5	10.7	0.41	6.6	7	8
	3.0	11.0	0.51	8.4	8	10
	4.0	11.3	0.66	10.8	10	12
	5.0	11.9	0.84	13.8	12	14
	6.0	11.9	0.97	16.2	14	16
	8.0	11.0	1.34	22.2	22	26
2.0	1.5	10.2	0.28	4.8	5	6
	2.0	10.8	0.36	6.0	6	7
	2.5	10.9	0.44	7.2	7	9
	3.0	11.2	0.55	9.0	9	10
	4.0	11.6	0.71	12.0	11	13
	5.0	12.1	0.91	15.0	13	15
	6.0	12.4	1.05	17.4	15	17
	8.0	11.8	1.45	24.0	32	37
2.5	1.5	10.4	0.31	5.4	6	7
	2.0	11.0	0.41	6.6	7	8
	2.5	11.3	0.50	8.4	8	9
	3.0	11.2	0.62	10.2	9	11
	4.0	12.3	0.81	13.2	11	13
	5.0	12.7	1.03	17.4	13	15
	6.0	13.2	1.21	20.4	14	16
	8.0	13.3	1.63	27.0	24	18
3.0	1.5	10.6	0.34	6.0	6	7
	2.0	11.2	0.45	7.8	7	8
	2.5	11.3	0.56	9.6	9	10
	3.0	12.1	0.69	11.4	9	11
	4.0	12.7	0.89	16.8	11	13
	5.0	13.5	1.13	18.6	12	14
	6.0	13.9	1.34	22.2	14	16
	8.0	14.1	1.79	30.0	23	27
3.5 – 5.2	1.5	10.6	0.35	6.0	6	7
	2.0	11.2	0.47	7.8	8	9
	2.5	11.3	0.58	10.2	9	11
	3.0	12.1	0.71	12.0	10	11
	4.0	12.7	0.92	15.6	12	13
	5.0	13.5	1.17	19.2	13	15
	6.0	13.9	1.39	22.8	14	17
	8.0	14.1	1.85	31.2	18	21

5000 PRS Low Angle Nozzle Performance						
Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
1.7	1.0 LA	7.6	0.17	3.0	6	7
	1.5 LA	8.2	0.26	4.2	8	9
	2.0 LA	8.8	0.33	5.4	9	10
	3.0 LA	8.8	0.51	8.4	13	15
2.0	1.0 LA	8.0	0.18	3.0	6	6
	1.5 LA	8.6	0.28	4.8	8	9
	2.0 LA	9.1	0.36	6.0	9	10
	3.0 LA	9.3	0.55	9.0	13	15
2.5	1.0 LA	8.6	0.20	3.6	5	6
	1.5 LA	9.2	0.32	5.4	8	9
	2.0 LA	9.5	0.41	6.6	9	10
	3.0 LA	10.1	0.62	10.2	12	14
3.0	1.0 LA	8.8	0.22	3.6	6	7
	1.5 LA	9.4	0.35	6.0	8	9
	2.0 LA	9.7	0.45	7.8	10	11
	3.0 LA	10.6	0.68	11.4	12	14
3.5 – 5.2	1.0 LA	8.8	0.23	3.6	6	7
	1.5 LA	9.4	0.36	6.0	8	10
	2.0 LA	9.7	0.47	7.8	10	12
	3.0 LA	10.6	0.70	12.0	13	15

Precipitation rates based on half-circle operation

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASABE Standards; ASABE S398.1.





Rotors



5000 Series MPR Nozzles

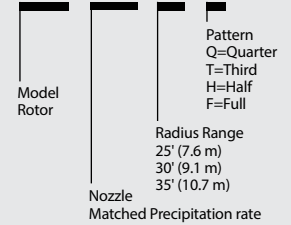
Perfectly Balanced Coverage with the 5000 Series Rotor





Models





- 5000MPRMPK: 5000/5000 Plus Series MPR nozzle tree multi pack- 7.6 m, 9.1 m, 10.7 m radius in Quarter, Third, Half, Full arc





How to Specify

5000 - MPR - 25 - Q



5000-MPR-25 (Red)						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
Quarter 	1.7	7.0	0.17	3.0	13.7	15.8
	2.4	7.3	0.20	3.6	14.9	17.3
	3.1	7.6	0.23	3.6	15.6	18.1
	3.8	7.6	0.25	4.2	17.4	20.1
	4.5	7.6	0.27	4.8	18.9	21.9
Third 	1.7	7.0	0.23	3.6	13.9	16.0
	2.4	7.3	0.27	4.8	15.4	17.8
	3.1	7.6	0.31	5.4	16.2	18.7
	3.8	7.6	0.35	6.0	18.0	20.7
	4.5	7.6	0.38	6.6	19.6	22.6
Half 	1.7	7.0	0.33	5.4	13.3	15.4
	2.4	7.3	0.39	6.6	14.7	17.0
	3.1	7.6	0.45	7.2	15.5	17.9
	3.8	7.6	0.50	8.4	17.3	20.0
	4.5	7.6	0.55	9.0	18.9	21.8
Full 	1.7	7.0	0.63	10.8	12.8	14.8
	2.4	7.3	0.76	12.6	14.2	16.4
	3.1	7.6	0.87	14.4	14.9	17.3
	3.8	7.6	0.97	16.2	16.6	19.2
	4.5	7.6	1.05	17.4	18.1	20.9

5000-MPR-30 (Green)						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
Quarter 	1.7	8.8	0.23	3.6	12.0	13.8
	2.4	9.1	0.28	4.8	13.4	15.4
	3.1	9.1	0.32	5.4	15.2	17.6
	3.8	9.1	0.35	6.0	17.0	19.6
	4.5	9.1	0.38	6.6	18.4	21.2
Third 	1.7	8.8	0.30	4.8	11.7	13.5
	2.4	9.1	0.37	6.0	13.2	15.2
	3.1	9.1	0.42	7.2	15.1	17.4
	3.8	9.1	0.47	7.8	16.8	19.4
	4.5	9.1	0.51	8.4	18.3	21.1
Half 	1.7	8.8	0.49	8.4	12.5	14.4
	2.4	9.1	0.59	9.6	14.1	16.2
	3.1	9.1	0.67	11.4	16.1	18.6
	3.8	9.1	0.75	12.6	17.9	20.7
	4.5	9.1	0.82	13.8	19.6	22.6
Full 	1.7	8.8	0.96	16.2	12.3	14.2
	2.4	9.1	1.15	19.2	13.8	15.9
	3.1	9.1	1.31	21.6	15.7	18.1
	3.8	9.1	1.45	24.0	17.4	20.0
	4.5	9.1	1.57	26.4	18.8	21.7

5000-MPR-35 (Beige)						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
Quarter 	1.7	9.8	0.32	5.4	13.4	15.4
	2.4	10.4	0.38	6.6	14.1	16.3
	3.1	10.7	0.44	7.2	15.3	17.7
	3.8	10.7	0.48	7.8	17.0	19.6
	4.5	10.7	0.52	9.0	18.4	21.3
Third 	1.7	9.8	0.40	6.6	12.7	14.6
	2.4	10.4	0.49	8.4	13.6	15.8
	3.1	10.7	0.56	9.6	14.7	17.0
	3.8	10.7	0.62	10.2	16.4	18.9
	4.5	10.7	0.68	11.4	17.9	20.7
Half 	1.7	9.8	0.62	10.2	13.1	15.2
	2.4	10.4	0.76	12.6	14.1	16.3
	3.1	10.7	0.87	14.4	15.2	17.6
	3.8	10.7	0.96	16.2	16.9	19.5
	4.5	10.7	1.05	17.4	18.4	21.3
Full 	1.7	9.8	1.22	20.4	12.8	14.8
	2.4	10.4	1.50	25.2	14.0	16.2
	3.1	10.7	1.72	28.8	15.1	17.5
	3.8	10.7	1.91	31.8	16.8	19.4
	4.5	10.7	2.09	34.8	18.3	21.2

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASABE Standards; ASABE S398.1.



5000 Series MPR Nozzles





Rotors

Falcon® 6504 Series

Reliable and Economical

Models

Select models shown. Review your regional price list for complete availability.

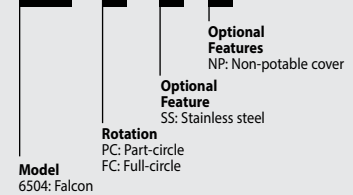
- I6504PC: Falcon Series 4" BSP Part Circle
- I6504FC: Falcon Series 4" BSP Full Circle
- I6504PCSS: Falcon Series 4" BSP Part Circle Stainless Steel
- I6504FCSS: Falcon Series 4" BSP Full Circle Stainless Steel
- 6504PC: Falcon Series 4" NPT Part Circle
- 6504FC: Falcon Series 4" NPT Full Circle



Falcon® 6504 Series

How to Specify

6504 - PC - SS - NP



Note: For non-U.S. applications, it is necessary to specify NPT or BSP thread type.

Falcon® 6504 Nozzle Performance

Pressure bar	Nozzle	Radius m	Flow m³/h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
2.1	● 4	11.9	0.66	10.98	9	11
	● 6	13.1	0.95	15.90	11	13
2.5	● 4	12.3	0.72	11.92	10	11
	● 6	13.5	1.05	17.56	12	13
	● 8	14.9	1.50	25.20	13	16
	● 10	15.5	1.84	30.60	15	18
	● 12	16.2	2.20	36.60	17	19
	● 14	16.8	2.57	42.60	18	21
3.0	● 16	16.8	2.86	47.40	20	24
	● 18	18.0	3.11	51.60	19	22
	● 4	12.5	0.78	13.02	10	12
	● 6	14.1	1.16	19.34	12	13
	● 8	15.1	1.56	26.04	14	16
	● 10	15.8	1.92	31.99	15	18
3.5	● 12	16.4	2.31	38.44	17	20
	● 14	17.2	2.68	44.63	18	21
	● 16	17.4	3.00	49.95	20	23
	● 18	18.0	3.25	54.11	20	23
	● 4	12.5	0.85	14.09	11	13
	● 6	14.9	1.26	20.96	11	13
4.0	● 8	15.5	1.69	28.24	14	16
	● 10	16.2	2.08	34.70	16	18
	● 12	16.8	2.52	41.98	18	21
	● 14	18.0	2.91	48.45	18	21
	● 16	18.6	3.27	54.53	19	22
	● 18	18.1	3.53	58.78	22	25

Pressure bar	Nozzle	Radius m	Flow m³/h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
4.5	● 4	12.5	0.96	15.94	12	14
	● 6	14.6	1.40	23.33	13	15
	● 8	15.5	1.95	32.43	16	19
	● 10	17.1	2.37	39.44	16	19
	● 12	17.7	2.89	48.17	18	21
	● 14	18.6	3.32	55.38	19	22
5.0	● 16	19.2	3.71	61.82	20	23
	● 18	19.5	4.03	67.12	21	24
	● 4	12.7	1.01	16.84	13	15
	● 6	14.9	1.47	24.50	13	15
	● 8	15.7	2.05	34.16	17	19
	● 10	17.2	2.50	41.64	17	19
5.5	● 12	18.1	3.04	50.72	19	21
	● 14	18.6	3.51	58.49	20	23
	● 16	19.2	3.91	65.11	21	24
	● 18	19.8	4.23	70.51	22	25
	● 4	13.1	1.04	17.39	12	14
	● 6	14.9	1.56	25.79	14	16
6.0	● 8	16.1	2.13	35.54	16	19
	● 10	16.8	2.63	43.84	19	22
	● 12	18.6	3.18	52.92	18	21
	● 14	18.6	3.67	61.23	21	25
	● 16	19.2	4.10	68.40	22	26
	● 18	19.8	4.44	74.07	23	26
6.0	● 18	19.8	4.79	79.77	24	28
6.2	● 18	19.8	4.93	82.13	25	29

Low Flow Kit - B81610



Standard Flow Kit - B81620



Precipitation rates based on half-circle operation

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASABE Standards; ASABE S398.1.





Rotors



8005 Series

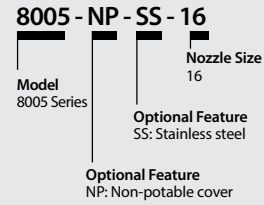
Protect Your Turf with High Performance, Vandal and Abuse Resistant Rotors from 11.9 to 24.7 m

Models

Select models shown. Review your regional price list for complete availability.

- 8005: 8005 Part/Full Circle, Less Nozzle
- 8005NP: 8005 Part/Full Circle, Less Nozzle W/NP Cover
- 8005SS: 8005 Part/Full Circle, Stainless Steel, Less Nozzle
- 8005NPSS: 8005 Part/Full Circle, Stainless Steel, Less Nozzle w/ NP Cover
- I8005: 8000 Series 1" BSP Part/Full Circle
- I8005NP: 8000 Series 1" BSP Part/Full Circle Non-Potable
- I8005SS: 8000 Series 1" BSP Stainless Steel
- I8005NPSS: 8000 Series 1" BSP Non-Potable Stainless Steel

How to Specify



Note: For non-U.S. applications, it is necessary to specify NPT or BSP thread type.

** Note: Pop-up height is measured from cover to the primary nozzle port. Overall body height is measured popped down

8005 Nozzle Performance							
Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h	
3.5	●	4	11.9	0.86	14.38	12	14
	●	6	13.7	1.28	21.34	14	16
	●	8	14.9	1.59	25.50	14	16
	●	10	16.1	2.10	35.43	16	19
	●	12	17.5	2.52	42.27	16	19
	●	14	18.0	2.89	48.18	18	21
	●	16	18.7	3.28	54.59	19	22
	●	18	19.2	3.69	61.43	20	23
	●	20	19.9	4.25	70.83	21	25
	●	22	20.0	5.08	79.07	25	29
	●	24	19.3	5.11	85.10	27	32
○	26	20.0	5.57	92.67	28	32	
4.0	●	4	11.9	0.93	14.38	13	15
	●	6	13.7	1.37	22.71	15	17
	●	8	14.9	1.75	30.44	16	18
	●	10	16.3	2.30	37.63	17	20
	●	12	17.7	2.70	44.74	17	20
	●	14	18.5	3.17	52.85	19	21
	●	16	19.6	3.54	58.98	18	21
	●	18	19.7	3.97	66.10	20	24
	●	20	20.3	4.50	74.95	22	25
	●	22	21.3	5.23	85.94	23	27
	●	24	20.7	5.50	91.69	26	30
○	26	21.8	6.01	99.26	25	29	
4.5	●	4	11.9	1.00	16.18	14	16
	●	6	13.7	1.45	24.28	15	18
	●	8	14.9	1.92	32.99	17	20
	●	10	16.5	2.40	40.22	18	20
	●	12	18.0	2.87	47.81	18	20
	●	14	18.9	3.37	56.12	19	22
	●	16	20.1	3.77	62.77	19	22
	●	18	20.1	4.22	70.36	21	24
	●	20	21.1	4.79	79.87	22	25
	●	22	22.0	5.51	91.80	23	26
	●	24	22.0	5.88	98.08	24	28
○	26	22.6	6.42	106.44	25	29	
5.0	●	4	11.9	1.06	18.08	15	17
	●	6	13.7	1.54	25.74	16	19
	●	8	14.9	2.09	34.83	19	22
	●	10	16.7	2.50	42.68	18	21
	●	12	18.3	3.05	50.92	18	21
	●	14	19.2	3.54	58.96	19	22
	●	16	20.4	3.99	66.44	19	22
	●	18	20.6	4.47	74.58	21	24
	●	20	21.6	5.11	85.08	22	25
	●	22	22.4	5.84	97.39	23	27
	●	24	23.0	6.26	104.29	24	27
○	26	23.2	6.80	113.28	25	29	

Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h	
5.5	●	4	11.9	1.13	18.90	16	18
	●	6	13.7	1.62	26.84	17	20
	●	8	14.9	2.25	37.02	20	23
	●	10	16.8	2.70	44.60	19	22
	●	12	18.5	3.23	53.66	19	22
	●	14	19.2	3.72	61.98	20	23
	●	16	20.4	4.22	70.28	20	23
	●	18	21.0	4.74	78.97	21	25
	●	20	21.6	5.42	90.30	23	27
	●	22	22.8	6.19	103.15	24	28
	●	24	23.5	6.62	110.33	24	28
○	26	24.1	7.14	119.05	25	28	
6.0	●	12	18.6	3.30	55.07	19	22
	●	14	19.6	3.96	66.06	21	24
	●	16	20.9	4.45	74.12	20	24
	●	18	21.5	4.95	82.56	21	25
	●	20	22.1	5.65	94.18	23	27
	●	22	22.9	6.71	108.12	26	30
	●	24	23.9	6.92	115.31	24	28
○	26	24.1	7.50	125.08	26	30	
6.2	●	14	19.8	4.06	67.75	21	24
	●	16	21.0	4.54	75.70	21	24
	●	18	21.7	5.04	84.02	21	25
6.5	●	20	22.5	5.89	98.19	23	27
	●	22	23.4	6.84	112.73	25	29
	●	24	24.1	7.22	120.25	25	29
	○	26	24.3	7.91	131.76	27	31
6.9	●	20	22.9	6.09	101.43	23	27
	●	22	23.5	6.97	116.19	25	29
	●	24	24.1	7.45	124.14	26	30
	○	26	24.7	8.24	137.39	27	31

Precipitation rates based on half-circle operation

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASABE Standards; ASABE S398.1.





Rotors



2045A Maxi-Paw™ and 2045-PJ Maxi-Bird™

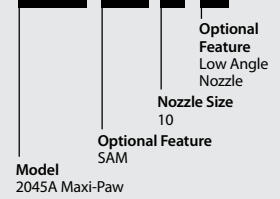
Dirty Water Applications - Spacing Up to 13.7 m

Models

- 2045A Maxi-Paw-SAM
- 2045A Maxi-Paw-SAM-NP
- 42064: Maxi-Paw Wrench - for removing internal assembly from case
- 2045-PJ Maxi-Bird

How to Specify

2045A-SAM-10-LA



2045-PJ Maxi-Bird

42064-Maxi-Paw Wrench



2045A Maxi-Paw and 2045-PJ Standard Angle Nozzles



2045A Maxi-Paw and 2045-PJ Low Angle Nozzles

Maxi-Paw and Maxi-Bird Nozzle Performance

Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
2.0	6	-	-	-	-	-
	07 LA	6.8	0.38	6.0	16	19
	7	10.4	0.55	9.0	10	12
	8	11.0	0.68	11.4	11	13
	10 LA	8.1	0.83	13.8	25	29
	10	11.9	1.01	16.8	14	16
2.5	12	12.3	1.32	22.2	18	20
	6	11.3	0.46	7.8	7	8
	07 LA	7.1	0.44	7.2	17	20
	7	11.4	0.62	10.2	10	11
	8	11.7	0.76	12.6	11	13
	10 LA	8.9	0.92	15.6	23	27
3.0	10	12.5	1.11	18.6	14	16
	12	12.9	1.45	24.0	18	20
	6	11.5	0.51	8.4	8	9
	07 LA	7.5	0.47	7.8	17	19
	7	11.8	0.67	11.4	10	11
	8	12.1	0.83	13.8	11	13
3.5	10 LA	9.4	1.01	16.8	23	27
	10	12.8	1.21	20.4	15	17
	12	13.3	1.59	26.4	18	21
	6	11.6	0.55	9.0	8	9
	07 LA	7.6	0.50	8.4	17	20
	7	12.2	0.72	12.0	10	11
4.0	8	12.4	0.89	15.0	12	13
	10 LA	9.6	1.09	18.0	23	27
	10	13.0	1.30	21.6	15	18
	12	13.6	1.72	28.8	19	21
	6	11.6	0.58	9.6	9	10
	07 LA	7.6	0.54	9.0	18	21
4.0	7	12.5	0.78	13.2	10	11
	8	12.7	0.94	15.6	12	14
	10 LA	9.8	1.19	19.8	25	29
	10	13.3	1.42	23.4	16	19
	12	13.7	1.86	31.2	20	23

LA = Low Angle

Precipitation rates based on half-circle operation

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASABE Standards; ASABE S398.1.





Rotors

25BPJ

Part or Full Circle Bronze Impact Sprinklers. These impact heads are designed to be riser-mounted. They are used to irrigate hedges, shrubs, and flower beds.

Models

Select models shown. Review your regional price list for complete availability.

- 25BPJ-FP-ADJ-DA-TNT: ½" NPT



25BPJ

25BPJ-FP-ADJ-DA-TNT Performance

Pressure bar	Nozzle	Radius m	Flow m ³ /h	Precip mm/h	Precip mm/h
2.1	09	11.6	0.70	10	12
	10	11.9	0.86	12	14
2.5	09	11.8	0.77	11	13
	10	12.1	0.95	13	15
3.0	09	12.0	0.85	12	14
	10	12.3	1.05	14	16
3.5	09	12.2	0.91	12	14
	10	12.5	1.14	15	17

Precipitation rates based on half-circle operation

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASABE Standards; ASABE S398.1.

LF Series

Full circle low-flow sprinkler

Models

Select models shown. Review your regional price list for complete availability.

- LF 1200
- LF 2400/LF LR 2400

















LF1200 Performance

Deflector	Nozzle	Stream Height (cm)	Flow Rate at Standard Pressures (l/h)			
			Throw Radius at Standard Pressure (meter)			
			2.1 bar	2.4 bar	2.8 bar	3.1 bar
6 Degree Dark Purple	Orange 44 Drill	35-50	266 6.9	286 6.9	307 7.5	325 7.5
	Purple 3/32"	35-53	316 7.2	341 7.2	366 7.8	388 7.8
	Yellow 38 Drill	40-53	370 7.5	402 7.5	429 8.1	454 8.1
12 Degree Blue	Orange 44 Drill	71-99	266 8.1	286 8.4	307 8.7	325 8.7
	Purple 3/32"	71-101	316 8.7	341 9.0	366 9.3	388 9.3
	Yellow 38 Drill	76-109	370 9.0	402 9.6	429 9.6	454 9.6
17 Degree Sky Blue	Orange 44 Drill	124-152	266 9.3	286 9.9	307 10.2	325 10.2
	Purple 3/32"	106-154	316 9.9	341 10.2	366 10.5	388 10.8
	Yellow 38 Drill	109-154	370 10.2	402 10.5	429 10.8	454 10.8
21 Degree Olive Green	Orange 44 Drill	152-187	266 10.2	286 10.2	307 10.2	325 10.5
	Purple 3/32"	127-190	316 10.2	341 10.5	366 10.5	388 10.5
	Yellow 38 Drill	134-182	370 10.5	402 10.8	429 10.8	454 10.8





LF2400 Performance				Flow Rate at Standard Pressures (l/h)			
Deflector	Nozzle	Stream Height (cm)	Throw Radius at Standard Pressure (meter)				
			2.1 bar	2.4 bar	2.8 bar	3.1 bar	
10 Degree Lime 	Tan 30 Drill 	60-96	493 9.0	534 9.6	575 9.9	606 10.2	
	Red 1/8" 	60-104	568 9.6	613 9.9	656 10.2	697 10.5	
	Silver 9/64" Drill 	81-111	743 10.2	802 10.5	858 10.8	913 11.1	
15 Degree Tangerine 	Tan 30 Drill 	71-127	493 9.9	534 10.2	575 10.8	606 10.8	
	Red 1/8" 	88-137	568 10.2	613 10.5	656 11.1	697 11.1	
	Silver 9/64" Drill 	106-144	743 10.8	802 11.1	858 11.7	913 11.7	
22 Degree Dark Green 	Green 7/64" 	160-241	420 11.4	454 11.4	488 11.4	518 11.7	
	Tan 30 Drill 	162-246	493 11.4	534 11.7	575 12.0	606 12.3	
	Red 1/8" 	170-254	568 11.7	613 12.0	656 12.3	697 12.3	
	Black 29 Drill 	287-304	636 12.3	688 12.6	738 12.6	784 12.9	
	Silver 9/64" Drill 	182-259	743 12.0	802 12.9	858 13.2	913 13.5	

For complete performance charts, please consult www.rainbird.eu

LFX300/LFX600 Series

The Rain Bird® LFX Low Flow Sprinkler is perfect for a wide variety of applications

Models

Select models shown. Review your regional price list for complete availability.

LFX300

- LFX300 Body LFXBNPT
- LFX300 Nozzles
- LFXN40B
- LFXN45P
- LFXN50G
- LFXN55Y
- LFXN60R
- LFXN3GPM
- LFXN5GPM

LFX300 Break with Deflector

- LFXBR9R
- LFXBR9W
- LFXBR15O

LFX300 / LFX600 Accessories

- LFX Stream Splitter One Side: LFXSS1
- LFX Stream Splitter Two Side: LFXSS2
- LFX Edge Guard: LFXG

LFX600

- LFX600 Body: LFXBNPT
- LFX600 Nozzles
- LFXN65G
- LFXN70W
- LFXN78B
- LFXN7GPM
- LFXN1GPM
- LFXN86O
- LFXN94P
- LFXN102Y

LFX600 Break with Deflector

- LFXBR9B
- LFXBR12P
- LFXBR15P
- LFXBR15G



LFX600



LFX300





LFX300/LFX600 Series (continued)

LFX300 Brake Assembly with Deflector Performance									
Deflector	Nozzle	Stream Height (cm)	Flow Rate at Standard Pressures (l/h)						
			Throw Radius at Standard Pressure (meter)						
			1.75 bar	2.0 bar	2.25 bar	2.5 bar	2.75 bar	3.0 bar	3.25 bar
Deflector 9° Red Radius: (6.1 - 6.7 m)	P/n: 18116940B	50.8 - 58.4	0	0	62	65	68	71	74
	P/n: 18116945P	48.3 - 63.5	0.0	0.0	6.1	6.1	6.4	6.1	6.1
	P/n: 18116950G	53.3 - 73.6	67	72	76	62	84	88	91
	P/n: 18172135	50.8 - 63.5	6.1	6.4	6.7	6.7	6.7	6.7	6.4
	P/n: 18212543	50.8 - 63.5	83	88	94	99	104	108	113
Deflector 9° White Radius: (6.4 - 7.6 m)	P/n: 18116950G	50.8 - 61	6.4	6.4	6.7	6.7	6.4	6.4	6.4
	P/n: 18116955Y	43.2 - 63.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
	P/n: 18116960R	43.2 - 63.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	P/n: 18172150	50.8 - 63.5	98	98	98	98	98	98	98
	P/n: 18116950G	50.8 - 61	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Deflector 15° Orange Radius: (7.0 - 7.6 m)	P/n: 18116950G	86.4 - 91.1	0	0	94	99	104	108	113
	P/n: 18116955Y	91.4 - 106.7	0.0	0.0	6.7	6.7	6.7	6.7	7.0
	P/n: 18116960R	83.8 - 104.1	100	107	114	120	126	131	137
	P/n: 18172150	76.2 - 106.7	6.4	6.7	7.3	7.3	7.0	7.6	7.6
	P/n: 18116950G	86.4 - 91.1	118	126	134	141	148	154	161

LFX600 Brake Assembly with Deflector Performance									
Deflector	Nozzle	Stream Height (cm)	Flow Rate at Standard Pressures (l/h)						
			Throw Radius at Standard Pressure (meter)						
			1.75 bar	2.0 bar	2.25 bar	2.5 bar	2.75 bar	3.0 bar	3.25 bar
Deflector 9° Blue Radius: (6.8 - 7.9 m)	P/n: 18116965G	43 - 71	140	149	158	167	175	183	190
	P/n: 18116970W	56 - 76	7.0	7.0	7.3	7.5	7.6	7.6	7.6
	P/n: 18116978B	56 - 76	161	172	182	192	202	211	219
	P/n: 18212575	48 - 66	7.3	7.3	7.3	7.5	7.6	7.6	7.9
	P/n: 18212510	56 - 79	203	216	230	242	254	265	276
Deflector 12° Pink Radius: (7.0 - 9.1 m)	P/n: 18116978B	58 - 79	7.6	7.6	7.6	7.6	7.6	7.6	7.9
	P/n: 181169860	56 - 81	170	170	170	170	170	170	170
	P/n: 18116995P	51 - 81	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	P/n: 181169102Y	53 - 86	227	227	227	227	227	227	227
	P/n: 18116978B	58 - 79	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Deflector 15° Purple Radius: (7.3 - 8.8 m)	P/n: 181169860	69 - 127	0	0	230	242	254	265	276
	P/n: 18116995P	97 - 124	0.0	0.0	7.0	7.2	7.3	7.6	7.9
	P/n: 181169102Y	104 - 135	0	263	279	294	308	322	335
	P/n: 18116978B	86 - 114	7.9	8.5	8.7	8.8	8.8	8.8	8.8
	P/n: 18212575	79 - 107	291	311	330	347	364	381	396
Deflector 15° Gold Radius: (7.9 - 9.4 m)	P/n: 181169860	69 - 127	7.9	8.5	8.5	8.7	8.8	8.8	9.1
	P/n: 18116995P	97 - 124	344	368	390	411	431	450	469
	P/n: 181169102Y	104 - 135	8.2	8.5	9.1	9.1	9.1	8.8	8.8
	P/n: 18116965G	79 - 112	140	149	158	167	175	183	190
	P/n: 18116970W	79 - 112	0.0	0.0	6.1	6.1	6.4	6.1	6.1

For complete performance charts, please consult www.rainbird.eu





Valves

DV / DVF Series

Diaphragm Valve – The Industry Leader for Over 25 Years

Models

Select models shown. Review your regional price list for complete availability.

- 075-DV: ¾" female threaded inlet and outlet
- 100-DV-MM: 1" male x male*
- 100-DV-MM-9V: 1" male x male, latching solenoid*
- 100-DVF: 1" BSP female x female*

* Available with NPT threads

Recommendations

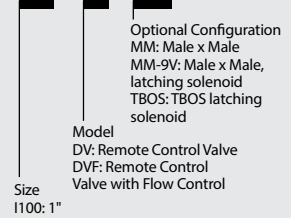
1. Rain Bird recommends flow rates that result in discharge velocities in the supply line not to exceed 2.3 m/s in order to reduce the effects of water hammer.
2. Rain Bird residential valves cannot be used with PRS pressure regulating modules.
3. Not recommended for use with 2-wire decoder systems like ESP-LXD.



100-DV

How to Specify

100 - DV - MM



This specifies an 100-DV valve; 1" (26/34) male x male. Note: For non-U.S. applications it is necessary to specify NPT or BSP thread type (1" only).

DV and DVF Valve Pressure Loss (bar)

Flow m ³ /h	l/m	100-DV/100-DVF 1" bar
0.23	4	0.23
0.60	10	0.24
1.20	20	0.26
3.60	60	0.32
4.50	75	0.35
6.00	100	0.41
9.00	150	0.59

100-DV Angle, MxB Valve Pressure Loss (bar)

Flow m ³ /h	l/m	100-DV/100-DVF 1" bar
0.23	4	0.17
0.60	10	0.19
1.20	20	0.21
3.60	60	0.26
4.50	75	0.30
6.00	100	0.44
9.00	150	0.86

Note: DV/DVF Male x barb not recommended for flows exceeding 30 gpm (6.81 m³/h, 113.56 l/m)

HV Series

High Value Valve. High Performance. Big Savings.

Models

Select models shown. Review your regional price list for complete availability.

- 100-HV-BSP: 1" BSP female x female
- 100-HVF-BSP: 1" BSP female x female
- 100-HVF-BSP-9V: 1" BSP female x female, 9V DC Latching Solenoid
- 100-HV-MM: 1" male x male
- 100-HV-MM-9V: 1" male x male, 9V DC Latching Solenoid

Recommendations

1. Rain Bird recommends flow rates that result in discharge velocities in the supply line not to exceed 2.3 m/s in order to reduce the effects of water hammer.
2. Rain Bird residential valves cannot be used with PRS pressure regulating modules.
3. Not recommended for use with 2-wire decoder systems like ESP-LXD.

HV Valve Pressure Loss (bar)

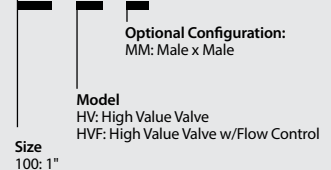
METRIC

Flow m ³ /h	l/m	1" HV bar	1" HV-MB bar
0.25	4.17	0.11	0.12
0.75	12.50	0.14	0.14
1.00	16.67	0.16	0.16
2.00	33.34	0.23	0.19
5.00	83.35	0.32	0.31
7.50	125.03	0.42	0.94

* Rain Bird recommends flow rates in the supply line not to exceed 2.3 m/s in order to reduce the effects of water hammer

How to Specify

100 - HV - MM



Note: For non-U.S. applications it is necessary to specify NPT or BSP thread type (1" only)



100HV



100HVF





Valves

PE-IVM Series

NEW

Best-in-class Professional Series Plastic Irrigation Valves. Now available with the Integrated Valve Module "smart solenoid" (IVM-SOL) preinstalled

Models

- IVM100PEB and IVM100PESB: 1" NPT
- IVM150PEB and IVM150PESB: 1 1/2" NPT
- IVM200PEB and IVM200PESB: 2" NPT

BSP threads available; specify when ordering

How to Specify

IVM100 - PEB - PRS-D

Size
 100: 1" NPT
 150: 1 1/2" NPT
 200: 2" NPT

Optional Feature
 PRS-Dial: pressure regulating module (must be ordered separately)

Model
 PEBIVM
 PESBIVM: Scrubber model

Note: Valve and PRS-Dial module must be ordered separately. For non-U.S. applications, it is necessary to specify NPT or BSP thread type.

PE-IVM Series Valve Pressure Loss (bar)		METRIC		
Flow m ³ /h	Flow l/m	IVM100PEB 2.5cm	IVM150PEB 3.8cm	IVM200PEB 5.1cm
0.06	1	0.06	-	-
0.3	5	0.09	-	-
0.6	10	0.10	-	-
1.2	20	0.12	-	-
3	50	0.15	-	-
6	100	0.32	0.26	-
9	150	0.68	0.24	-
12	200	-	0.26	0.33
15	250	-	0.33	0.32
18	300	-	0.42	0.32
21	350	-	0.57	0.34
24	400	-	0.74	0.41
27	450	-	0.92	0.51
30	500	-	1.14	0.64
33	550	-	1.38	0.77
36	600	-	-	0.90
39	650	-	-	1.04
42	700	-	-	1.18
45	757	-	-	1.34



IVM150PESB

Notes

1. Loss values are with flow control fully open
2. PRS-Dial recommended for use in shaded area only

EFB-CP Series Brass Valves

Highly durable Brass Irrigation Valves - Globe Configuration

Models

- 100-EFB-CP: 1" NPT
- 150-EFB-CP: 1 1/2" NPT
- 200-EFB-CP: 2" NPT* 1 1/2" NPT

BSP threads available; specify when ordering

How to Specify

100 - EFB-CP - PRS-D

Size
 100: 1" NPT
 150: 1 1/2" NPT
 200: 2" NPT

Optional Feature
 PRS-Dial: pressure regulating module (must be ordered separately)

Note: Valve and PRS-Dial module must be ordered separately.

EFB-CP Series Valve Pressure Loss (bar)		METRIC		
Flow m ³ /h	Flow l/m	100-EFB-CP 2.5cm	150-EFB-CP 3.8cm	200-EFB-CP 5.1cm
1	19	0.01	-	-
3	50	0.07	-	-
6	100	0.27	0.19	0.04
9	150	0.56	0.14	0.05
12	200	-	0.25	0.09
15	250	-	0.38	0.14
18	300	-	0.51	0.16
21	350	-	0.70	0.23
24	400	-	0.91	0.30
27	450	-	1.13	0.40
30	500	-	-	0.49
33	550	-	-	0.58
36	600	-	-	0.68
39	650	-	-	0.79
42	700	-	-	0.92
45	757	-	-	1.09



EFB-CP Series Brass Valve

Notes

1. Loss values are with flow control fully open
2. PRS-Dial module recommended for all flow rates





Valves



EFB-CP IVM Series Brass Valves

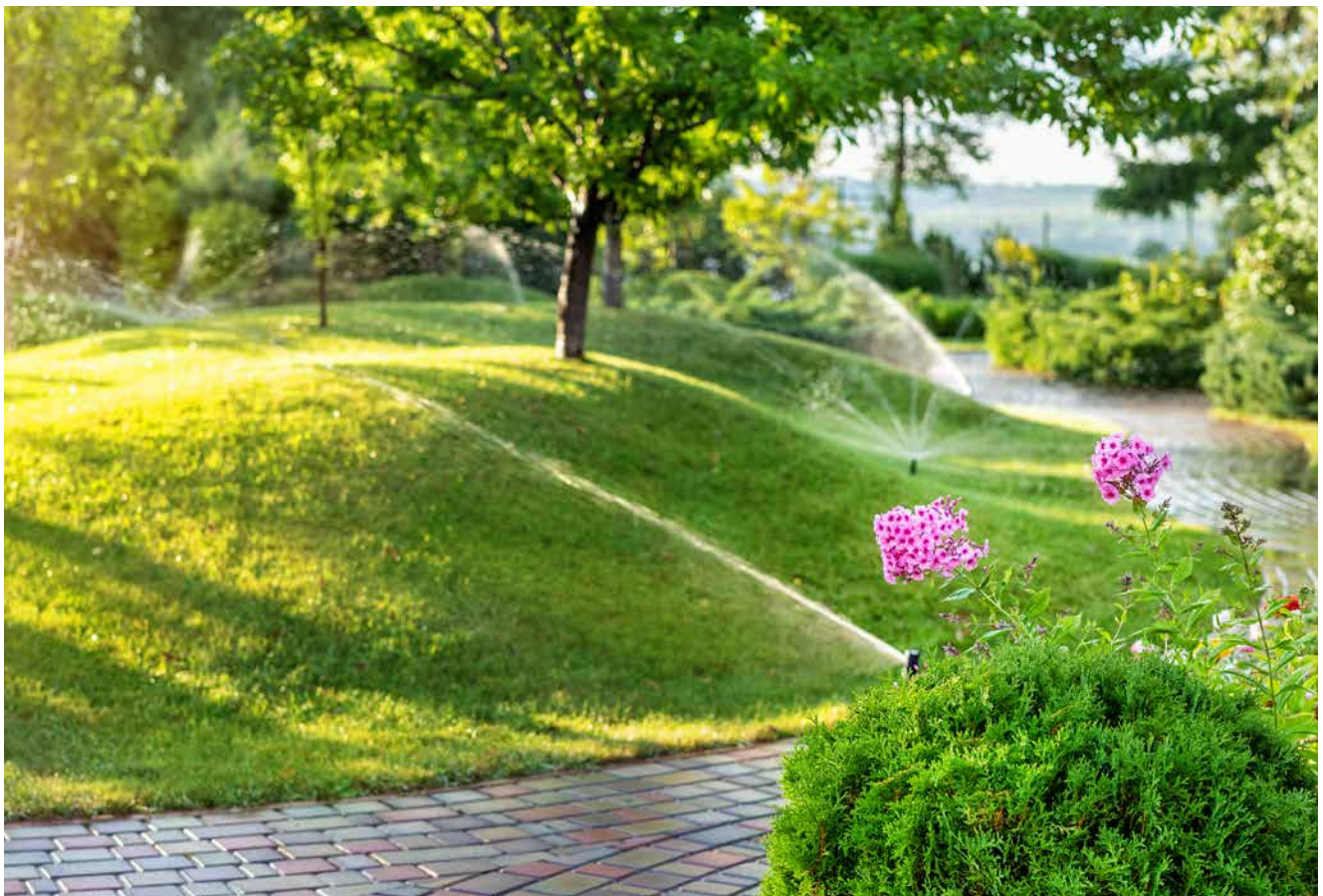
Models

- IVM100EFB: 1" Brass Valve with IVM-SOL
- IVM150EFB: 1½" Brass Valve with IVM-SOL
- IVM200EFB: 2" Brass Valve with IVM-SOL

EFB-CP IVM Series Valve Pressure Loss (bar)		METRIC		
Flow m³/h	Flow l/m	IVM100EFB 2.5cm	IVM150EFB 3.8cm	IVM200EFB 5.1cm
1	19	0.01	-	-
3	50	0.07	-	-
6	100	0.27	0.19	0.04
9	150	0.56	0.14	0.05
12	200	-	0.25	0.09
15	250	-	0.38	0.14
18	300	-	0.51	0.16
21	350	-	0.70	0.23
24	400	-	0.91	0.30
27	450	-	1.13	0.40
30	500	-	-	0.49
33	550	-	-	0.58
36	600	-	-	0.68
39	650	-	-	0.79
42	700	-	-	0.92
45	757	-	-	1.09



EFB-CP Series Brass Valve





Flow Meters and Sensors

FG100 & FS Series Flow Sensors

Compatible with IQ4, LINK, Site SAT, ESP- LX D, LXME2, LXME2 PRO, ESP-ME3 and LX-IVM PRO Controllers

Models and Dimensions		
Model	Description	Dimensions
FG100 (A83926)	1" / 25.4 mm Flow Sensor NPT	9.25" x 3.31" x 2.56" (235mm x 84mm x 65mm)
FG100SS (A83927)	1" / 25.4 mm Flow Sensor Slip	9.25" x 3.31" x 2.56" (235mm x 84mm x 65mm)
FG100 (A83928)	1" / 25.4 mm Flow Sensor BSP	9.25" x 3.31" x 2.56" (235mm x 84mm x 65mm)
FS100P	1" (25mm) PVC Tee Flow Sensor	3.50" x 3.94" x 1.315" (89mm x 100mm x 33mm)
FS150P	1 1/2" (40mm) PVC Tee Flow Sensor	5.0" x 5.16" x 2.38" (127mm x 131mm x 60mm)
FS200P	2" (50mm) PVC Tee Flow Sensor	5.63" x 5.64" x 2.88" (143mm x 143mm x 73mm)
FS300P	3" (75mm) PVC Tee Flow Sensor	6.50" x 6.83" x 4.23" (165mm x 173mm x 107mm)
FS400P	4" (110mm) PVC Tee Flow Sensor	7.38" x 7.83" x 5.38" (187mm x 199mm x 137mm)
FS100B	1 1/2" (40mm) Brass Tee Flow Sensor	5.45" x 4.94" x 2.21" (138mm x 126mm x 56mm)
FS150B	1" (25mm) Brass Tee Flow Sensor	6.5" x 5.19" x 2.5" (165mm x 132mm x 64mm)
FS200B	2" (50mm) Brass Tee Flow Sensor	4.25" x 8.35" x 2.94" (108mm x 212mm x 75mm)
FS350B	3" and higher, Brass Insert Flow Sensor	7.13" x 3" (diameter) (181mm x 76mm (diameter))
FSTINSERT	Replacement insert for Tee type sensors	

Model	Suggested Operating Range (Gallons / Minute)	Suggested Operating Range (Liters / Minute)	Suggested Operating Range (Cubic Meters/Hour)
FS150P	5 - 100	19 - 380	1.1 - 23
FS200P	10 - 200	40 - 750	2.3 - 45
FS300P	20 - 300	75 - 1130	4.5 - 70
FS400P	40 - 500	150 - 1900	9 - 110
FS100B	2 - 40	7.6 - 150	0.5 - 9
FS150B	4 - 80	15 - 300	1 - 18
FS200B	10 - 100	38 - 380	2.3 - 23
FS350B	Depends on Pipe Type and Size - please reference Flow Sensors tech spec		



FS350B



FS150P
FS200P
FS300P
FS400P

FS100P



















FG100



FS200B
FS150B
FS100B





		STATIONS	PROGRAMS	REMOTE MANAGEMENT	KEY SOLUTION
RESIDENTIAL					
	RC2	Fixed (8)	3	Built-in WiFi-Based Adjustments	Seamless mobile pairing and fast, intuitive programming
	ESP-RZXe	Fixed (4, 6 or 8)*	Zone-Based		Smart, zone-based control
	ESP-TM2	Fixed (4, 6, 8 or 12)	3		Easiest-to-use, cost-effective control
	ESP-ME3	Modular (Up to 22)	4		Advanced residential control
COMMERCIAL					
	ESP-LXME2/Pro	Modular (Up to 48)	40	 	Next generation modular control
	ESP-LXIVM/Pro	Modular (Up to 240)	Up to 40	 	Flexible 2-Wire control
BATTERY-OPERATED					
	ESP-9V	Fixed (1, 2, 4 or 6)	3	—	Simple, submersible, and cost-effective
	TBOS Series	Fixed (1, 2, 4 or 6)**	3		Smartphone control with a vandal-proof design

*Available in international markets only.

**Certain models available in Europe only.

