

*"On previous projects, I had installed a plastic tube with about a dozen hand-drilled holes and a retrofitted bubbler, but I've never been completely satisfied with this do-it-yourself method. At a recent job we needed to plant 200 valley oak seedlings on a 20-acre site and used the Rain Bird RWS. One year after planting, the trees show extremely good vitality. If you're looking for long-term vitality and healthy trees this is an excellent tool."*

**Greg Houck**  
Ad Land Venture

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Spray Bodies

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## Water Saving Tips

### Root Watering Series

- RWS is more efficient than above ground bubblers in distributing water to tree and shrub root zones
- Highest efficiency solution for tree irrigation – up to 95% emission uniformity with minimal wind, evaporation, or edge control losses
- RWS' dedicated subsurface irrigation zones reduce stress of trees and shrubs brought on by strict turf watering restrictions

## SA Series

Swing Assemblies Connect Heads to Lateral Pipes

- Quality alternative to locally assembled swing pipe/spiral barb fittings that do not carry a manufacturer's warranty
- Comprehensive range of products support a variety of landscape solutions
- Complementary engineered fittings and spray heads instill confidence in product specification

### Specifications

The operating range of the Rain Bird Swing Assemblies matches or exceeds the operating range for most 1/2" (1.3 cm) sprays and 3/4" (1.9 cm) rotors

- Operating pressure: Up to 80 psi (5.5 bar)
- Surge pressure: Up to 240 psi (16.6 bar)
- Temperature: Up to 110° F (43° C)
- Maximum flow: 8 gpm (0.5 l/sec)
- Pressure loss at 6 gpm (0.38 l/sec) is 2.0 psi (0.14 bar)

Unique Rain Bird system offering:  
Swing Assemblies, Saddle Tees,  
and Spray Heads



### How To Specify

#### SA 12 5050 P

Optional Pallet Pack

Inlet/Outlet  
050: 1/2" x 1/2"  
5050: 1/2" x 1/2"  
5075: 1/2" x 3/4"  
7575: 3/4" x 3/4"

Length  
18"  
12"  
6"

Model  
Swing Assembly



SA Series

### SA Series Swing Assemblies Specifications

Model Number	Part Number	Length		Inlet		Outlet		Notes
		US	METRIC	US	METRIC	US	METRIC	
SA-6050-P	A48030P	6"	15.2 cm	1/2"	1.3 cm	1/2"	1.3 cm	PALLET PACK
SA-6050	A48030	6"	15.2 cm	1/2"	1.3 cm	1/2"	1.3 cm	
SA-65075	A48055	6"	15.2 cm	1/2"	1.3 cm	3/4"	1.9 cm	
SA-125050	A48035	12"	30.5 cm	1/2"	1.3 cm	1/2"	1.3 cm	
SA-125075	A48045	12"	30.5 cm	1/2"	1.3 cm	3/4"	1.9 cm	
SA-127575	A48050	12"	30.5 cm	3/4"	1.9 cm	3/4"	1.9 cm	
SA-185050	A48065	18"	45.7 cm	1/2"	1.3 cm	1/2"	1.3 cm	

## SPX Series Swing Pipe

Swing Pipe with Spiral Barb Fittings Provides a Flexible Swing Assembly for Sprays and Rotors

### Features and Benefits

#### • SPX-FLEX100

- Superior flexibility allows pipe to be efficiently routed around hardscape, terraces, and uneven terrain to turn landscape design into reality
- Textured surface makes product easier to handle, contributing to labor efficiency, especially under wet conditions
- Up to 30% more flexible than competitive flexible pipe\*
- Enhanced kink resistance
- Quick and easy installation lowers material and labor costs
- Installs quickly leaving time for additional system installations and incremental revenue opportunities

*\*Based on tests conducted at the Rain Bird Product Research Center. Tests conducted on Rain Bird and principal competitors' swing pipe*

### Specifications

- Inside diameter: 0.49" (1.24 cm)
- Operating pressure: Up to 80 psi (5.5 bar)
- Temperature: Up to 110° F (43° C)

### Models

- SPX-FLEX-100: 100' (30 m) coil



Up to 30% more flexible than competitors



SPX-FLEX100

## SB Series Spiral Barb Fittings

A Natural Product Complement to SPX Series Swing Pipe

### Features and Benefits

- Fittings are made of robust acetal material to make connecting swing pipe fast and easy
- Easy twist-in insertion – no glue or clamps needed for installation
- Aggressive barb lip makes a secure connection that is less likely to leak



- Broad range of shapes and sizes allow the contractor to choose the best fitting for the application
- Extended length and aggressive barb lip prevent blow outs, reducing likelihood of contractor call backs

### Specifications

- Operating pressure: Up to 80 psi (5.5 bar)
- Temperature: Up to 110° F (43° C)

### Models

- SBE-050: 1/2" M NPT x 1/2" barb elbow
- SBE-050B: 1/2" M NPT x 1/2" barb elbow - bulk package
- SBE-075: 3/4" M NPT x 1/2" barb elbow
- SBE-075B: 3/4" M NPT x 1/2" barb elbow - bulk package
- SBA-050: 1/2" M NPT x 1/2" barb adapter
- SBA-075: 3/4" M NPT x 1/2" barb adapter
- SB-TEE: 1/2" barb x 1/2" barb x 1/2" barb tee
- SB-CPLG: 1/2" barb x 1/2" barb coupling
- SBFE-050: 1/2" F NPT x 1/2" barb elbow
- SB-NPT-TEE: 1/2" M NPT x 1/2" barb x 1/2" spiral barb tee



#### RWS-Sock

*Designed to fit over the RWS and RWS-Mini units. Ideal for use in sandy soil, it will deter fine soil from infiltrating into the RWS canister*

## RWS Series

Root Watering Series promotes deep root growth and healthy tree development

- Subsurface aeration and irrigation prevents tree and shrub transplant shock
- Subsurface deep root watering and aeration ensures tree health and promotes accelerated growth
- Highest efficiency solution for tree irrigation - up to 95% emission uniformity with minimal wind, evaporation, or edge control losses

### Features and Benefits

- Aesthetically designed subsurface bubbler contributes to a landscape's natural appearance
- Locking grate at grade deters vandals
- Helps prevent shallow root growth and hardscape damage
- Aesthetically attractive below grade installation
- Self-contained and factory assembled units for assured reliability
- Variety of models available to accommodate design flexibility:

#### For the RWS Model:

- 4" (10.2 cm) retaining cap and vandal resistant locking grate tops a 36" semi-rigid mesh tube
- Factory installed swing assemblies (excluding RWS-BGX) with a 1401 (0.25 gpm; 1.2 l/m), 1402 (0.5 gpm; 1.8 l/m), 1404 (1.00 gpm; 3.6 l/m) or 1408 (2.00 gpm; 7.2 l/m) bubbler on a fixed riser makes connecting to lateral lines easy
- Optional sand sock is ideal for use in sandy soil

#### For the RWS - Mini:

- 4" (10.2 cm) retaining cap and vandal resistant locking grate tops a 18" semi-rigid mesh tube
- Factory installed ½" spiral barb elbow with a 1401 or 1402 bubbler makes connecting to lateral lines easy
- Optional sand sock is ideal for use in sandy soil

#### For the RWS - Supplemental:

- 2" (5.1 cm) snap-on cap and base cap enclose a 10" (25.4 cm) semi-rigid mesh tube
- Factory installed ½" spiral barb elbow with 1401 bubbler makes connecting to lateral lines easy
- Right size for shrubs

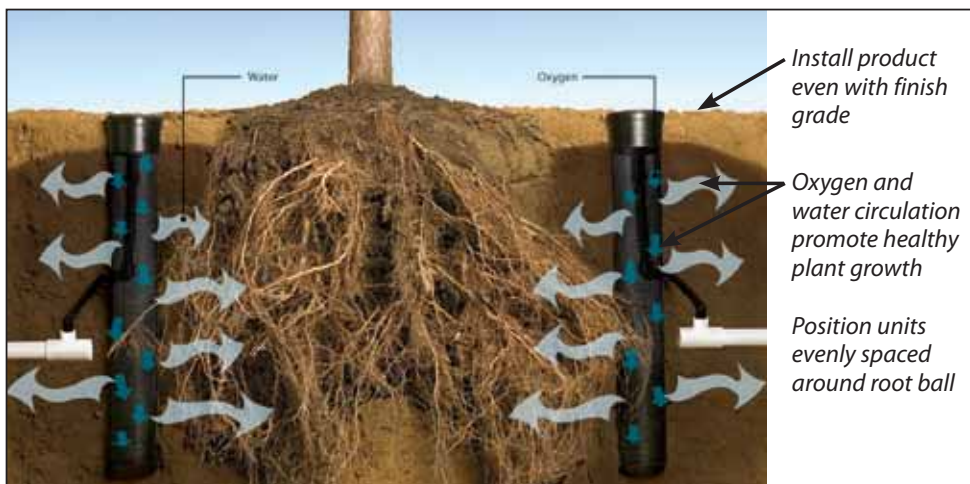


RWS integrated collar and locking grate retainer

### Dimensions

- Root Watering: 4" (10.2 cm) diameter x 36" (91.5 cm) length
- Root Watering – Mini: 4" (10.2 cm) diameter x 18" (45.7 cm) length
- Root Watering – Supplemental: 2" (5.1 cm) diameter x 10" (25.4 cm) length

Models /Specifications				
Model	Bubbler	Check Valve	Swing Assembly w/ ½" (15/21) M NPT inlet	Spiral Barb Elbow w/ ½" (15/21) M NPT inlet
<b>Root Watering (with 4" (10.2 cm) vandal-resistant locking grate)</b>				
RWS	Ideal for ¼" drip tubing or customer provided hardware	–	–	–
RWS-B-C-1401	0.25 gpm (1.2 l/m)	✓	✓	–
RWS-B-1401	0.25 gpm (1.2 l/m)	–	✓	–
RWS-B-X-1401	0.25 gpm (1.2 l/m)	–	✓ (18")	–
RWS-B-C-1402	0.50 gpm (1.8 l/m)	✓	✓	–
RWS-B-1402	0.50 gpm (1.8 l/m)	–	✓	–
RWS-B-C-1404	1.00 gpm (3.6 l/m)	✓	✓	–
RWS-B-C-1408	2.00 gpm (7.2 l/m)	✓	✓	–
<b>Root Watering - Mini (with 4" (10.2 cm) vandal-resistant locking grate)</b>				
RWS-M	Ideal for ¼" drip tubing or customer provided hardware	–	–	–
RWS-M-B-C-1401	0.25 gpm (1.2 l/m)	✓	–	✓
RWS-M-B-1401	0.25 gpm (1.2 l/m)	–	–	✓
RWS-M-B-C-1402	0.50 gpm (1.8 l/m)	✓	–	✓
RWS-M-B-1402	0.50 gpm (1.8 l/m)	–	–	✓
<b>Root Watering - Supplemental (with 2" (5.1 cm) snap-on cap and base)</b>				
RWS-S-B-C-1401	0.25 gpm (1.2 l/m)	✓	–	✓
RWS-S-B-1401	0.25 gpm (1.2 l/m)	–	–	✓
<b>Root Watering - Accessories</b>				
RWS-SOCK (Root Watering Sand Sock)				
RWS- GRATE-P (Root Watering Series Purple Grate for RWS and RWS Mini)				



### How To Specify

**RWS - x - x - x - XXXX**

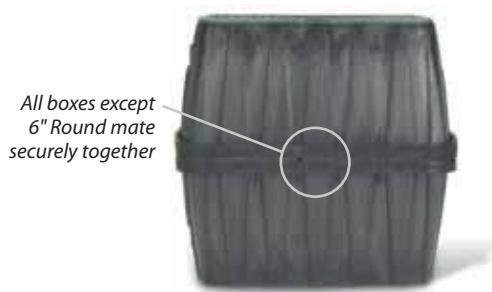
- Bubbler Model**  
1401  
1402  
1404  
1408
- Optional**  
C: Check Valve
- Bubbler**  
B: Bubbler pre-installed

**Other Size**  
M: RWS-Mini (4" (10.2 cm) x 18" (45.7 cm))  
S: RWS-Supplemental (2" (5.1 cm) x 10" (25.4 cm))

**Model**  
RWS Root Watering Series

Accessories

A variety of valve box sizes and shapes makes it easy to choose the right box for the job. Black body and black lids are made of 100% recycled materials



**Interlocking Bottoms for Deep Installations**



**International non-potable symbol and language**

## VB Series Valve Boxes

Valve Boxes provide superior box strength for better valve protection

- Wide flange with corrugated structure provides superior box strength for better valve protection
- Unique shovel access slot provides superior accessibility for service
- Earth-friendly LEED-compliant material made of 100% recycled materials (black boxes and black lids only)
- Unique pipe hole knockouts provide faster and easier installation

### Features and Benefits

These features apply to the **Standard, Jumbo, Super Jumbo, Maxi Jumbo, and 10" Round** Valve Boxes:

- Unique bolt hole knock-out design in lid keeps hazardous insect pests out of the box
- Shovel access on body allows for easy lid removal
- Knock-out retainers securely hold removed knock-outs above the pipe, keeping dirt out during backfill
- Beveled lid edges help prevent damage to lids from lawn equipment
- Interlocking bottoms allow boxes to mate securely together bottom-to-bottom for deep installations
- Lid marking area provides dedicated location for valve identification

### Dimensions and Additional Features by Model

#### STANDARD RECTANGULAR SERIES (VB-STD)

- Dimensions: 21.8" L x 16.6" W x 12.0" H (55.4 cm x 42.2 cm x 30.5 cm)
- Two large center knock-outs accommodate up to 3½" (8.9 cm) diameter pipe and eleven knock-outs accommodate up to 2" (5.0 cm) diameter pipe
- VB-STD: Black body and green lid
- VB-STDP: Black body and purple lid with bilingual non-potable warning
- VB-STD-B: Black body only
- VB-STD-L: Green lid
- VB-STDP-L: Purple lid with bilingual non-potable warning
- VB-STDT-L: Tan lid
- VB-STDBK-L: Black lid
- VB-STD-H: Black body and green lid with locking hex bolt

Standard 6" extension dimensions: 20.0" L x 14.75" W x 6.75" H (50.8 cm x 37.5 cm x 17.1 cm)

- VB-STD-6EXT-B: 6" standard extension black body only
- VB-STD-6EXT: 6" standard extension black body and green lid

#### JUMBO RECTANGULAR SERIES (VB-JMB)

- Dimensions: 26.3" L x 19.8" W x 12.1" H (66.8 cm x 50.3 cm x 30.7 cm)
- Two large center knock-outs accommodate up to 3½" (8.9 cm) diameter pipe. (Extension does not have knock-outs)
- VB-JMB: Black body and green lid

- VB-JMBP: Black body and purple lid with bilingual non-potable warning
- VB-JMB-B: Black body only
- VB-JMB-L: Green lid
- VB-JMBP-L: Purple lid with bilingual non-potable warning
- VB-JMBT-L: Tan lid
- VB-JMBBK-L: Black lid
- VB-JMB-H: Black body and green lid with locking hex bolt
- Jumbo 6" extension dimensions: 24.4" L x 17.9" W x 6.75" H (62.0 cm x 45.5 cm x 17.1 cm)
- VB-JMB-6EXT-B: 6" jumbo extension black body only
- VB-JMB-6EXT: 6" jumbo extension black body and green lid

**SUPER JUMBO RECTANGULAR SERIES (VB-SPR)**

- Dimensions: 33.1" L x 23.8" W x 15.0" H (84.1 cm x 60.5 cm x 38.1 cm)
- Fourteen knock-outs accommodate up to 3½" (8.9 cm) diameter pipe
- Includes two stainless steel bolts and clips to securely fasten the lid to the body
- VB-SPR-L: Green lid
- VB-SPR-H: Black body and green lid with 2 locking hex bolts
- VB-SPRT-H: Black body and tan lid with 2 locking hex bolts

**MAXI JUMBO RECTANGULAR SERIES (VB-MAX)**

- Dimensions: 40.3" L x 27.1" W x 18.0" H (102.4 cm x 68.8 cm x 45.7 cm)
- Eighteen knock-outs accommodate up to 3½" (8.9 cm) diameter pipe
- Includes two stainless steel bolts and clips to securely fasten the lid to the body
- VB-MAX-L: Green lid
- VB-MAX-H: Black body and green lid with 2 locking hex bolts
- VB-MAXT-H: Black body and tan lid with 2 locking hex bolts

**10" ROUND SERIES (VB-10RND)**

- Dimensions: 10.25" Top D x 10.0" H x 13.75" Bottom D (26.0 cm x 25.4 cm x 34.9 cm)
- Four equally spaced knock-outs accommodate up to 2" (5.0 cm) diameter pipe. (Extension does not have knock-outs)
- VB-10RND: Black body and green lid
- VB-10RND-B: Black body only
- VB-10RND-L: Green lid
- VB-10RNDP-L: International non-potable symbol and language
- VB-10RNDT-L: Tan lid
- VB-10RNDBK-L: Black lid
- VB-10RND-H: Black body and green lid with locking hex bolt

**7" ROUND SERIES (VB-7RND)**

- Dimensions: 6.4" Top D x 9.0" H x 9.8" Bottom D (16.3 cm x 22.9 cm x 24.9 cm)
- Two pre-molded side openings accommodate up to 2" (5.0 cm) diameter pipe
- VB-7RND: Black body and green lid
- VB-7RNDP: Black body and purple lid
- VB-7RNDT: Black body and tan lid
- VB7RNDBK: Black body and black lid

**6" ROUND SERIES (VB-6RND)**

- Dimensions: 6.1" Top D x 9.0" H x 8.3" Bottom D (15.5 cm x 22.9 cm x 21.1 cm)
- Two pre-molded side openings accommodate up to 2" (5.0 cm) diameter pipe
- VB-6RND: Green body and green lid

**LOCKING SYSTEMS** VANDAL RESISTANT

- VB-LOCK-H: Hex head ¾" x 2¼" (1.0 x 5.7 cm) bolt, washer, and clip
- VB-LOCK-P: Penta head ¾" x 2¼" (1.0 x 5.7 cm) bolt, washer, and clip



Valve Box Lids - Green, Tan (for Desert Soils), Purple (to Indicate Non-potable Water), and Black

Accessories

## Poly Pipe Saddle Tee

Saddle Tee Easily Adjusts to Poly Pipe Shape and Dimensions to Reduce Installation Time

### Features and Benefits

- No requirement for tools or fastener equipment reduces installation costs
- Easy-grip piercing cap locks into position for a leak-free connection
- Engineered to pierce and seal heavy-wall 1" (25.4 mm) poly pipe
- Low profile requires less digging to install product
- Auto-alignment of flow port maximizes available pressure for enhanced irrigation performance
- Nearly indestructible design and materials perform reliably in all climates
- Available with 1/2" (12.7 mm) NPT and 3/4" (19.0 mm) NPT piercing caps for connections

### Specifications

- Operating pressure up to 80 psi (5.5 bar), and 110° F (43° C)
- All components made of high-strength materials – won't crack or lose pressure over time

### Models

- STX 1/2 NPT (A11245) ratcheting saddle w/ 1/2" (12.7 mm) piercing cap
- STX 3/4 NPT (A11250) ratcheting saddle w/ 3/4" (19.0 mm) piercing cap



STX1/2NPT



STX3/4NPT

## 16A-FDV / 16A-FDV-075

Drain Valves Evacuate Lateral Lines After Each Irrigation Cycle to Reduce Damage Caused by Freezing

### Features and Benefits

- Automatically drains water lines to prevent freezing
- Plastic perforated cap screens out large particles
- Dispersion pad filters out small particles

### Specifications

- Pressure: Up to 125 psi (8.5 bar)
- Flow: 1 gpm (0.23 m<sup>3</sup>/h; 0.06 l/s) maximum rate before sealing
- Average opening pressure when installed vertically: 2.5 psi (0.2 bar)
- Average closing pressure when installed vertically: 5.5 psi (0.4 bar)
- Diameter: 1 3/8" (3.5 cm), Length: 1" (2.5 cm)

### Models

- 16A-FDV: 1/2" (15/21) male threaded inlet
- 16A-FDV-075: 3/4" (20/27) male threaded inlet



16A-FDV