LANDSCAPE SOLUTIONS



Properly maintained clubhouse grounds and landscapes enhance the environment upon which the game is played, and create positive impressions that encourage repeat rounds or an increase in memberships. Rain Bird offers a number of landscape irrigation solutions — from sprays and nozzles to low-volume drip and root watering systems — that manage water responsibly, while promoting the growth of healthy, stress-free plants and grass areas. For a complete listing of landscape products, please consult the Rain Bird Landscape Irrigation Products–2014 Catalog.







RD1800[™] Series Spray Heads

4", 6", 12" (10.2 cm; 15.2 cm; 30.5 cm)

- Designed for use with all Rain Bird plastic spray head nozzles – Rotary Nozzles, U-Series, MPR, VAN, HE-VAN and SQ Series
- Parts resistant to corrosion in treated recycled water containing chlorine and other chemicals
- Strong stainless steel spring provides reliable stem retraction and withstands corrosion
- Exclusive co-molded, pressure-activated Triple-Blade Wiper Seal ensures a positive seal without excess "flow-by", which enables more heads to be installed on the same valve.
- Debris pockets in the base of the spray body prevent recirculation of harmful debris during operation.
- Reinforced ratchet mechanism allows easy nozzle pattern alignment without tools, withstands chemicals and prevents pattern misalignment over time.
- Pre-installed 1800 Pop-Top[™] flush plug blocks debris from entering after flushing and allows for easy nozzle installation.
- UV-resistant plastic and stainless steel parts, assure long product life.
- All sprinkler components are removable from the top without special tools, for quick and easy flushing and maintenance.
- Side inlets featured on non Seal-A-Matic[™] (SAM) models only.
- Five-year trade warranty.

Spacing: 2.5 to 24 feet (0.8 to 7.3 m)

Pressure: SAM Models: 15 to 100 psi (1.0 to 6.9 bar) All Other Models: 15 to 70 psi (1.0 to 4.8 bar)

MOE	DELS
4" MODELS	
RD-04-NP	RD-04-S-P30-F
RD-04-S	RD-04-S-P30-F-N
RD-04-S-NP	RD-04-S-P45-F
RD-04-S-P30	RD-04-S-P45FN
6" MODELS	
RD-06	RD-06-S-P30-F
RD-06-NP	RD-06-S-P30-F-N
RD-06-S	RD-06-S-P45-F
RD-06-S-NP	RD-06-S-P45-F-N
RD-06-S-P30	
12" MODELS	
RD-12	RD-12-S-P30-F
RD-12-NP	RD-12-S-P30-F-N
RD-12-S	RD-12-S-P45-F
RD-12-S-NP	RD-12-S-P45-FN

SPECIFICATIONS

Flow-by: SAM Models: 0 at 15 psi (1.0 bar) or greater; 0.5 gpm (0.1 m³/h; 0.03 l/s) otherwise

All Other Models: 0 at 10 psi (0.7 bar) or greater; 0.5 gpm (0.1 m³/h; 0.03 l/s) otherwise

- 1/2" (15/21) NPT female threaded inlet
- Models and height:
- **RD-04:** 6" (15 cm) body height; 4" pop-up height (10.2 cm)
- **RD-06:** 9 3/8" (24 cm) body height; 6" pop-up height (15.2 cm)
- **RD-12:** 16" (40 cm) body height; 12" pop-up height (30.5 cm)
- Exposed surface diameter: 2 1/4" (5.7 cm)

RD1800[™] SAM Series

4", 6", 12" (10.2 cm, 15.2 cm, 30.5 cm)

- Built-in Seal-A-Matic™ (SAM) check valve. Eliminates the need for under-the-head check valves. No parts to be installed at the site
- Stronger retract spring to accommodate elevation changes up to 14' (4.2 m). One of the strongest springs in the industry
- Prevents drainage from spray heads at lower elevations. Stops water waste. Ends landscape damage due to flooding and erosion

FEATURES

- Incorporates all RD1800[™] series features
- · Ideal for use in areas with changing elevations
- Retains water in lateral pipes which reduces wear on system components by minimizing water hammer during start-up
- "SAM" printed on the cap for easy identification and maintenance

RD1800[™] SAM PRS Series

4", 6", 12" (10.2 cm, 15.2 cm, 30.5 cm)

- Incorporates all RD1800 series SAM and PRS features
- Meets the needs of all spray areas, regardless of changing elevation or water pressures
- "SAM-PRS" stamped on the cap for easy identification and maintenance



RD 1800 Series

HOW TO SPECIFY

RDXX -	- <u>X</u> - <u>Nozzle</u>	
RD-04 RD-06 RD-12	Nozzle See Rotary Nozzle U-Series, MPR, VAN, HE-VAN and SQ Nozzle Specifications	·,

Optional Feature S: SAM P30: 30 psi (2.1 bar) PRS P45: 45 psi (3.1 bar) PRS F: Flow Shield™

NP: Non-Potable Water indication

Performance data derived from tests that conform with ASAE Standards; ASAE S398.1, Procedure for Sprinkler Testing and Performance Reporting.

RD-12-S-P30



Exclusive Flow-Shield[™] Technology

Exclusive Flow-Shield[™] Technology provides up to 90% reduction in water loss when a nozzle is removed, preventing potentially costly and unacceptable run-off.

Patented Pressure Regulator

The RD1800's patented pressure regulator increases nozzle efficiency by up to 50% in high pressure applications.



PO

Reinforced Ratchet Mechanism

The RD1800's ratchet mechanism was designed to improve ease of use and consistency, hold its setting over time, withstand years of chlorine exposure and provide greater debris resistance.

Seal-A-Matic[™] (SAM) Check Valve

Exclusive to Rain Bird, the SAM check valve holds back up to 14 feet of head and helps eliminate low head drainage, erosion, run-off and water hammer at start-up.

RD1800-PRS PERFORMANCE Without PRS 50 Nozzle Pressure (psi) 40 30 With PRS 20 10 0 20 30 40 50 60 70 Inlet Pressure (psi) Recommended Operating Pressure Range: 35 to 70 psi

Low-Flow Service Indication Stream

Exclusive Flow-Shield Technology delivers a low-flow service indication stream when a nozzle is removed. As a result, system performance is maintained, water is saved and you don't have to wait until you have brown grass or dead plants to notice something's wrong.

Triple-Blade Wiper Seal

The RD1800[™] series features an exclusive Triple-Blade Wiper Seal. The top seal flushes during pop-up and wipes the stem clean during retraction,

preventing external debris from entering. During operation, the primary seal combines with the stem's surface to eliminate flow-by. The exclusive third blade provides another line of



defense, in case the primary seal is damaged.

Reclaimed Water Resistance

The RD1800 Series is designed with reclaimed water resistant materials such as EPPM and Polyester. These materials resist degradation caused by chlorine in reclaimed water, ensuring a longer life.

, Unique Debris Pockets

With each system start-up, the RD1800's unique debris pockets hold grit in place—removing it from circulation and preventing long-term damage.



RD1800-PRS PERFORMANCE METRIC Without PRS 3.5 Nozzle Pressure (bar) 2.8 2.1 With PRS 1.4 0.7 0 1.4 2.1 2.8 3.5 4.1 4.8 Inlet Pressure (bar) Recommended Operating Pressure Range: 2.4 to 4.8 bar





Rotary Nozzles

- Low precipitation rate of 0.60 in/hr (15.2 mm/hr) reduces run-off and erosion.
- With approximately 60% less flow than conventional spray nozzles, rotary nozzles allow more heads per zone, reducing overall system complexity and cost.
- Multiple, rotating streams uniformly distribute water throughout the 13' to 24' radius range.

FEATURES

A Spray Nozzle with Rain Curtain Performance

- Large droplets for consistent performance.
- · Effective close-in watering.
- Even distribution over the entire radius.

Installation and Maintenance

- Designed for use on Rain Bird® Spray bodies.
- Color-coded radius reduction screws for easy identification.
- Stainless steel radius reduction screw allows reduction down to 13' on the R13-18 and to 17' on the R17-24 to accommodate varying landscape needs.
- Maintains highly efficient performance throughout the 20–55 psi pressure range, with no misting or fogging at high pressures.

Design Solutions

- Matched precipitation rate across radii and pattern simplify the design process.
- Matched precipitation rate with Rain Bird 5000/5000 Plus MPR rotor nozzles allow MPR irrigation designs from 13' to 35'.

Durability

- Rubber collar keeps out large debris particles while enabling small ones to exit easily to keep deflector clean and clear of debris.
- Screen mesh size prevents large debris from entering nozzle through spray.
- Three-year trade warranty.

OPERATING RANGE

Pressure range: 20-55 psi (1.4 to 3.8 bar)

Spacing: 13' to 24' (4.0 m to 7.3 m)

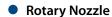
Above spacing based on zero wind conditions. Recommend spacing 13' – 22' (4.0 m to 6.8 m).

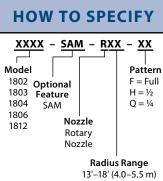
MODELS

- There are three different patterns available which are available in two radius ranges*:
 - » 13' to 18' (4.0 m to 5.5 m)
 - » 17' to 24' (5.2 m to 7.3 m)









17' –24' (5.2–7.3 m)

Note: Specify sprinkler bodies and nozzles separately. Installation on Rain Bird 1800°-SAM Spray Heads recommended in sandy environments.



	R13-18 SERIES (BLACK)												R17	-24	SER	IES	(YEI	.LO	W)		
		U.:	s.				М	ETR	IC				U.	s.				М	ETR	IC	
Arc	Pressure (psi)	Radius (ft)	Flow (gpm)	Precip (in/hr)	Precip (in/hr)	Pressure (bar)	Radius (m)	Flow (I/m)	Precip (mm/h)	Precip (mm/h)	Arc	Pressure (psi)	Radius (ft)	Flow (gpm)	Precip (in/hr)	Precip (in/hr)	Pressure (bar)	Radius (m)	Flow (I/m)	Precip (mm/h)	Precip (mm/h)
R13-18F	20	13	1.31	0.75	0.86	1.4	4.0	4.95	19	22	R17-24F	20	17	2.45	0.79	0.92	1.4	5.2	9.27	20	23
	25	14	1.46	0.67	0.77	1.7	4.3	5.53	18	21		25	19	2.74	0.71	0.82	1.7	5.8	10.37	18	21
SW.	30	16	1.60	0.61	0.70	2.1	4.8	6.06	15	18	Sala.	30	21	3.00	0.65	0.75	2.1	6.4	11.36	16	19
	35	16	1.73	0.61	0.70	2.4	5.0	6.54	15	18		35	22	3.24	0.65	0.75	2.4	6.7	12.26	16	19
	40	17	1.85	0.61	0.70	2.8	5.2	6.99	15	18		40	23	3.46	0.65	0.75	2.8	6.9	13.10	16	19
	45	18	1.96	0.61	0.70	3.1	5.4	7.42	15	18		45	23	3.67	0.65	0.75	3.1	7.1	13.89	16	19
	50	18	2.07	0.61	0.70	3.4	5.5	7.82	15	18		50	24	3.87	0.65	0.75	3.4	7.3	14.65	16	19
	55	18	2.17	0.61	0.70	3.8	5.6	8.20	15	18		55	24	4.06	0.65	0.75	3.8	7.4	15.37	16	19
R13-18H	20	13	0.65	0.75	0.86	1.4	4.0	2.47	19	22	22 R17-24H 21	20	17	1.22	0.79	0.92	1.4	5.2	4.62	20	23
	25	14	0.73	0.67	0.77	1.7	4.3	2.76	18	21		25	19	1.37	0.71	0.82	1.7	5.8	519	18	21
	30	16	0.80	0.61	0.70	2.1	4.8	3.03	15	18		30	21	1.50	0.65	0.75	2.1	6.4	5.68	16	19
	35	16	0.86	0.61	0.70	2.4	5.0	3.27	15	18		35	22	1.62	0.65	0.75	2.4	6.7	6.17	16	19
	40	17	0.92	0.61	0.70	2.8	5.2	3.50	15	18		40	23	1.73	0.65	0.75	2.8	6.9	6.55	16	19
	45	18	0.98	0.61	0.70	3.1	5.4	3.71	15	18		45	23	1.84	0.65	0.75	3.1	7.1	6.97	16	19
	50	18	1.03	0.61	0.70	3.4	5.5	3.91	15	18		50	24	1.94	0.65	0.75	3.4	7.3	7.34	16	19
	55	18	1.08	0.61	0.70	3.8	5.6	4.10	15	18		55	24	2.03	0.65	0.75	3.8	7.4	7.68	16	19
R13-18Q	20	13	0.33	0.75	0.86	1.4	4.0	1.24	19	22	R17-24Q	20	17	0.61	0.79	0.92	1.4	5.2	2.31	20	23
	25	14	0.37	0.67	0.77	1.7	4.3	1.38	18	21		25	19	0.68	0.71	0.82	1.7	5.8	2.57	18	21
	30	16	0.40	0.61	0.70	2.1	4.8	1.51	15	18		30	21	0.75	0.65	0.75	2.1	6.4	2.84	16	19
	35	16	0.43	0.61	0.70	2.4	5.0	1.64	15	18		35	22	0.81	0.65	0.75	2.4	6.7	3.07	16	19
	40	17	0.46	0.61	0.70	2.8	5.2	1.75	15	18		40	23	0.87	0.65	0.75	2.8	6.9	3.29	16	19
	45	18	0.49	0.61	0.70	3.1	5.4	1.85	15	18		45	23	0.92	0.65	0.75	3.1	7.1	3.48	16	19
	50	18	0.52	0.61	0.70	3.4	5.5	1.95	15	18		50	24	0.97	0.65	0.75	3.4	7.3	3.67	16	19
	55	18	0.54	0.61	0.70	3.8	5.6	2.05	15	18		55	24	1.02	0.65	0.75	3.8	7.4	3.86	16	19



HE-VAN Series Nozzles

High-Efficiency Variable Arc Spray Nozzles

- Easy arc adjustment from 0° to 360° with a simple twist of the center collar to increase or decrease arc setting
- ExactEdge[™] takes the guesswork out of arc adjustment. As you turn the nozzle to the desired arc setting, you'll feel it lock into place for a clean, consistent edge every time
- Patent pending Flow Control Technology provides superior close-in watering and uniform coverage across the entire pattern

FEATURES

- Thicker streams and large water droplets for greater wind resistance
- Matched precipitation rates with Rain Bird® MPR and U-Series nozzles
- A strong top deflector to minimize nozzle damage due to normal wear and tear
- No special tools required
- Stainless steel adjustment screw to adjust flow and radius, up to a 25% reduction in radius
- Shipped with blue filter screens (0.02 \times 0.02) to maintain precise radius adjustment and prevent clogging
- Fits on all Rain Bird[®] 1800[®] series spray heads, UNI-Spray[™] series spray heads and Rain Bird shrub adapters

Rain Bird[®] HE-VAN Efficiency Ratings¹

- Rain Bird® HE-VAN Nozzles deliver an average DULQ of 70%, more than a 40% improvement over typical variable arc spray nozzles
- Rain Bird[®] HE-VAN Nozzles deliver a SC ≤ 1.6, which is 35% lower than the typical variable arc spray nozzle

OPERATING RANGE

Radius:²

- HE-VAN-08: 6 to 8 feet (1.8 to 2.4 m)
- HE-VAN-10: 8 to 10 feet (2.4 to 3.0 m)
- HE-VAN-12: 9 to 12 feet (2.7 to 3.7 m)
- HE-VAN-15: 12 to 15 feet (3.7 to 4.6 m)
- Pressure: 15 to 30 psi (1.0 to 2.1 bar)
- Optimum Pressure: 30 psi (2.1 bar)³

MODELS

- HE-VAN-08
- HE-VAN-10
- HE-VAN-12
- HE-VAN-15

¹Distribution Uniformity (DU_{LQ}): DU in irrigation is a measure of how uniformly water is applied to the area being watered. DU_{LQ} is calculated by taking the volume in the lowest quarter of catch can measurements and dividing it by the average volume of all catch can measurements. Scheduling Coefficient (SC): SC is a measure of how long a zone must be run in order to provide adequate water to the driest spot.

²These ranges are based on proper pressure at nozzle

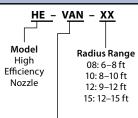
³Rain Bird recommends using 1800 PRS Spray Bodies to maintain optimum nozzle performance in higher pressure situations







HOW TO SPECIFY



Feature VAN: Variable Arc



	8 SEI	RIES HE	-VAN	– U.S.						
24° TRA	JECTORY									
Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	Precip (in/hr)	Precip (in/hr)					
360° Arc	15	5	0.83	3.19	3.68					
	20	6	0.96	2.56	2.95					
(\circ)	25	7	1.07	2.10	2.42					
	30	8	1.17	1.76	2.03					
270° Arc	15	5	0.62	3.19	3.68					
	20	6	0.72	2.56	2.95					
<u> </u>	25	7	0.80	2.10	2.42					
	30	8	0.88	1.76	2.03					
180° Arc	15	5	0.41	3.19	3.68					
	20	6	6	6	6	6	6 0.4	0.48	2.56	2.95
	25	7	0.53	2.10	2.42					
	30	8	0.59	1.76	2.03					
90° Arc	15	5	0.21	3.19	3.68					
	20	6	0.24	2.56	2.95					
	25	7	0.27	2.10	2.42					
	30	8	0.29	1.76	2.03					

	10 SE	RIES H	E-VAN	— U.S.	
27° TRA	JECTORY				
Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	Precip (in/hr)	Precip (in/hr)
360° Arc	15	7	1.26	2.48	2.86
	20	8	1.46	2.19	2.53
(°)	25	9	1.63	1.94	2.24
	30	10	1.78	1.72	1.98
270° Arc	15	7	0.95	2.48	2.86
	20	8	1.09	2.19	2.53
<u>~</u> ~~)	25	9	1.22	1.94	2.24
	30	10	1.34	1.72	1.98
180° Arc	15	7	0.63	2.48	2.86
	20	8	0.73	2.19	2.53
	25	9	0.81	1.94	2.24
	30	10	0.89	1.72	1.98
90° Arc	15	7	0.32	2.48	2.86
	20	8	0.36	2.9	2.53
<u> </u>	25	9	0.41	1.94	2.24
	30	10	0.45	1.72	1.98

	8 SER	IES H	E-VAN	і — МІ	ETRIC	
24° TRA	JECTORY	,				
Nozzle	Pressure (Bar)	Radius (m)	Flow (m³/h)	Flow (I/m)	Precip (mm/h)	Precip (mm/h)
360° Arc	1.03	1.52	0.19	3.14	82	95
	1.38	1.83	0.22	3.62	66	76
(•)	1.72	2.13	0.25	4.05	54	62
	2.07	2.44	0.27	4.43	45	52
270° Arc	1.03	1.52	0.14	2.35	82	95
	1.38	1.83	0.16	2.72	66	76
<u>''')</u>	1.72	2.13	0.18	3.04	54	62
	2.07	2.44	0.20	3.33	45	52
180° Arc	1.03	1.52	0.10	1.57	82	95
	1.38	1.83	0.11	1.81	66	76
	1.72	2.13	0.12	2.02	54	62
	2.07	2.44	0.13	2.22	45	52
90° Arc	1.03	1.52	0.05	0.78	82	95
	1.38	1.83	0.05	0.91	66	76
<u> </u>	1.72	2.13	0.06	1.01	54	62
	2.07	2.44	0.07	1.11	45	52

		10	0.	45	1./2	1.98
	10 SEF	RIES H	E-VAI	N — N	ETRI	c
27° TRA	JECTORY	'				
Nozzle	Pressure (Bar)	Radius (m)	Flow (m³/h)	Flow (l/m)	Precip (mm/h)	Precip (mm/h)
360° Arc	1.03	2.13	0.29	4.78	64	74
	1.38	2.44	0.34	5.52	56	65
(°)	1.72	2.74	0.37	6.17	50	57
	2.07	3.05	0.41	6.76	44	51
270° Arc	1.03	2.13	0.22	3.59	64	74
	1.38	2.44	0.25	4.14	56	65
<u>~</u>)	1.72	2.74	0.28	4.63	50	57
	2.07	3.05	0.31	5.07	44	51
180° Arc	1.03	2.13	0.15	2.39	64	74
	1.38	2.44	0.17	2.76	56	65
ل	1.72	2.74	0.19	3.09	50	57
	2.07	3.05	0.21	3.38	44	51
90° Arc	1.03	2.13	0.07	1.20	64	74
	1.38	2.44	0.08	1.38	56	65
<u></u>	1.72	2.74	0.09	1.54	50	57

0.10

1.69

44

51

2.07

3.05

NOTE: Turning the radius reduction screw may be required to achieve catalog radius and flow when the arc is set at less than maximum.

Square spacing based on 50% diameter of throw. A Triangular spacing based on 50% diameter of throw. Performance data taken in zero wind conditions.



	12 SE	RIES H	E-VAN	— U.S.									
23° TRA	JECTORY												
Nozzle	(psi) (ft) (gpm) (in/hr)												
360° Arc	15	9	1.67	1.99	2.30								
	20	10	1.93	1.86	2.15								
(°)	25	11	2.16	1.72	1.99								
	30	12	2.37	1.58	1.83								
270° Arc	15	9	1.25	1.99	2.30								
	20	10	1.45	1.86	2.15								
-----------	25	11	1.62	1.72	1.99								
	30	12	1.77	1.58	1.83								
180° Arc	15	9	0.84	1.99	2.30								
	20	10	0.97	1.86	2.15								
	25	11	1.08	1.72	1.99								
	30	12	1.18	1.58	1.83								
90° Arc	15	9	0.42	1.99	2.30								
	20	10	0.48	1.86	2.15								
	25	11	0.54	1.72	1.99								
	30	12	0.59	1.58	1.83								

	15 SE	RIES H	E-VAN	— U.S.	
25° TRA	JECTORY				
Nozzle	Pressure (psi)	Radius (ft)	Flow (gpm)	Precip (in/hr)	Precip (in/hr)
360° Arc	15	11	2.62	2.08	2.40
	20	12	3.02	2.02	2.33
	25	14	3.38	1.66	1.92
	30	15	3.70	1.58	1.83
270° Arc	15	11	1.96	2.08	2.40
	20	12	2.27	2.02	2.33
	25	14	2.53	1.66	1.92
	30	15	2.78	1.58	1.83
180° Arc	15	11	1.31	2.08	2.40
	20	12	1.51	2.02	2.33
	25	14	1.69	1.66	1.92
	30	15	1.85	1.58	1.83
90° Arc	15	11	0.65	2.08	2.40
	20	12	0.76	2.02	2.33
	25	14	0.84	1.66	1.92
	30	15	0.93	1.58	1.83

23° TRA	JECTORY					
Nozzle	Pressure (Bar)	Radius (m)	Flow (m³/h)	Flow (I/m)	Precip (mm/h)	Precip (mm/h)
360° Arc	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
270° Arc	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
	2.1	3.7	0.40	6.72	40.2	46.4
180° Arc	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
90° Arc	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

	15 SEF	RIES H	E-VAI	N — N	IETRIC	C
25° TRA	JECTORY	,			•	
Nozzle	Pressure (Bar)	Radius (m)	Flow (m³/h)	Flow (I/m)	Precip (mm/h)	Precip (mm/h)
360° Arc	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
270° Arc	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
	2.1	4.6	0.63	10.51	40.2	46.5
180° Arc	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
90° Arc	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: Turning the radius reduction screw may be required to achieve catalog radius and flow when the arc is set at less than maximum.

Square spacing based on 50% diameter of throw. A Triangular spacing based on 50% diameter of throw. Performance data taken in zero wind conditions.



R-VAN Series Nozzles



Variable arc rotary nozzles let you quickly adjust arc and radius by hand

- Hand-adjustable arc and radius no special tools required.
- Low precipitation rate reduces run-off and the potential for erosion.
- High uniformity, thick, wind-resistant streams and larger water droplets ensure efficient performance, even in adverse conditions.

FEATURES

- Adjustable arc from 45° to 270°
- Meet tight watering windows R-VAN's optimum precipitation rate strikes the perfect balance between rate of application and infiltration
- Color coded for easy identification of R-VAN model
- Compatible with all models of Rain Bird spray bodies in addition to a wide variety of risers and adapters
- Installing with Rain Bird $^{\circ}$ 5000 series rotor matched precipitation rate (MPR) nozzles allows for MPR irrigation designs from 13' to 35' (4.0 m 10.7 m)
- Three year trade warranty

OPERATING RANGE

Pressure Range: 20 to 55 psi (1.4 to 3.8 bar)

Recommended Operating Pressure: 45 psi (3.1 bar)

Spacing: 13' to 24' (4.0 to 7.3m)

Adjustments: Arc and radius should be adjusted while water is running

MODELS

R-VAN1318

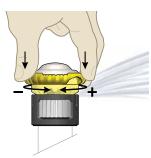
Black Rotary Deflector 13' to 18' (4.0 to 5.5m) radius 45° to 270° arc

R-VAN1724

Yellow Rotary Deflector 17' to 24' (5.2 to 7.3m) radius 45° to 270° arc

NOTES: Single row applications are not recommended. Operation of radius below minimum radius (per model) is not recommended. Installation on Rain Bird 1800SAM-P45 spray bodies recommended in sandy environments. Performance data derived from tests that conform with ASABE Standards; ASABE S398.1.



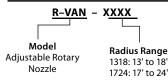




Arc Adjustment

Radius Adjustment

HOW TO SPECIFY



R-VAN 1318 (BLACK)											R-VAN1724 (YELLOW)									
	U.:	s.				М	ETR	IC				U.	s.				М	ETR	IC	
Pressure (psi)	Radius (ft)	Flow (gpm)	Precip (in/hr)	Precip (in/hr)	Pressure (bar)	Radius (m)	Flow (I/m)	Precip (mm/h)	Precip (mm/h)	Arc	Pressure (psi)	Radius (ft)	Flow (gpm)	Precip (in/hr)	Precip (in/hr)	Pressure (bar)	Radius (m)	Flow (I/m)	Precip (mm/h)	Precip (mm/h)
20	13	0.95	0.72	0.83	1.4	4.0	3.60	18	21	270° Arc	20	17	1.77	0.76	0.88	1.4	5.2	6.70	19	22
25	14	1.12	0.69	0.80	1.7	4.3	4.24	18	20		25	19	1.99	0.72	0.83	1.7	5.8	7.53	18	21
30	16	1.26	0.65	0.75	2.1	4.9	4.77	17	19	4	30	21	2.26	0.70	0.81	2.1	6.4	8.56	18	21
35	16	1.35	0.64	0.74	2.4	4.9	5.11	16	19		35	22	2.39	0.66	0.76	2.4	6.7	9.05	17	19
40	17	1.42	0.63	0.73	2.8	5.2	5.38	16	18		40	23	2.55	0.63	0.73	2.8	7.0	9.65	16	18
45	17	1.51	0.64	0.73	3.1	5.2	5.72	16	18		45	23	2.73	0.64	0.73	3.1	7.0	10.33	16	18
50	18	1.57	0.60	0.69	3.4	5.5	5.94	15	18		50	24	2.76	0.61	0.70	3.4	7.3	10.45	15	18
55	18	1.62	0.60	0.69	3.8	5.5	6.13	15	18		55	24	2.80	0.16	0.70	3.8	7.3	10.60	15	18
20	13	0.75	0.72	0.83	1.4	4.0	2.84	18	21	180° Arc	20	17	1.24	0.76	0.88	1.4	5.2	4.69	19	22
25	14	0.83	0.69	0.80	1.7	4.3	3.14	18	20		25	19	1.30	0.72	0.83	1.7	5.8	4.92	18	21
30	16	0.85	0.65	0.75	2.1	4.9	3.22	17	19		30	21	1.41	0.70	0.81	2.1	6.4	5.34	18	21
35	16	0.91	0.64	0.74	2.4	4.9	3.44	16	19		35	22	1.55	0.66	0.76	2.4	6.7	5.87	17	19
40	17	0.98	0.63	0.73	2.8	5.2	3.71	16			40	23	1.69	0.63	0.73	2.8	7.0	6.40	16	18
45	17	1.01		0.73	3.1	5.2		16			45	23	1.83		0.73		7.0	6.93	16	18
50	18	1.07		0.69	3.4	5.5		15			50	24	1.91		0.70		7.3		15	18
55	18	1.09	0.60	0.69	3.8	5.5	4.13	15	18		55	24	1.98	0.61	0.70	3.8	7.3	7.50	15	18
20	13	0.37	0.72	0.83	1.4	4.0	1.40	18	21	90° Arc	20	17	0.59	0.76	0.88	14	5.2	2,23	19	22
25	14	0.39	0.69	0.80	1.7	4.3	1.48		20		25	19	0.67	0.72	0.83	1.7	5.8	2.54	18	21
-					21		1.59	-			30	21								21
																				19
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	(psi) 20 25 30 35 40 45 50 25 30 35 40 45 50 20 25 30 35 40 45 50 55 20 25 30 35 40 45 50 35 40 45 50 30 35 40 45 50	Pressure (psi) Radius (ft) 20 13 25 14 30 16 35 16 40 17 45 17 50 18 20 13 25 14 30 16 35 18 20 13 25 14 30 16 35 18 20 13 25 18 20 13 25 18 20 13 25 14 30 16 35 18 20 13 25 14 30 16 35 18 20 13 25 14 30 16 35 16 45 17 45 17	Pressure Radius (ft) Glow (og) 20 13 0.95 25 14 1.12 30 16 1.26 35 16 1.35 40 17 1.42 45 17 1.51 50 18 1.62 20 13 0.75 55 18 1.62 20 13 0.75 25 14 0.83 30 16 0.85 30 16 0.91 40 17 0.98 30 16 0.85 35 16 0.91 40 17 0.98 45 17 1.01 50 18 1.09 20 13 0.37 55 18 0.91 20 13 0.37 55 18 0.91 20 13 0.37	U.S. Pressure (psi) Radius (ft) Flow (gpm) Precip (n/n/n) 20 13 0.95 0.72 25 14 1.12 0.69 30 16 1.26 0.65 35 16 1.35 0.64 40 17 1.42 0.63 45 17 1.51 0.64 50 18 1.57 0.60 55 18 1.62 0.60 20 13 0.75 0.72 25 14 0.83 0.69 30 16 0.85 0.65 35 16 0.91 0.64 40 17 0.98 0.63 30 16 0.85 0.65 35 18 1.07 0.60 50 18 1.07 0.60 55 18 1.09 0.60 55 18 1.07 0.60 1	U.S. Radius Flow Pressure 13 0.95 0.72 0.83 20 13 0.95 0.72 0.83 25 14 1.12 0.69 0.80 30 16 1.26 0.65 0.75 35 16 1.26 0.64 0.74 40 17 1.42 0.63 0.73 45 17 1.51 0.64 0.73 50 18 1.57 0.60 0.69 55 18 1.62 0.60 0.69 25 14 0.83 0.69 0.80 30 16 0.85 0.65 0.75 35 16 0.91 0.64 0.74 400 17 0.83 0.69 0.80 30 16 0.91 0.64 0.74 40 17 0.80 0.69 0.69 55 18	U.S. Teressure Radius (gpm) Precip (in/hr) <	U.S. N Pressure (psi) Radius (ft) Flow (gpm) Precip (nc/h) Pressure (nc/h) Radius (nc/h) N 20 13 0.95 0.72 0.83 1.4 4.0 25 14 1.12 0.69 0.80 1.7 4.3 30 16 1.26 0.65 0.75 2.1 4.9 35 16 1.35 0.64 0.74 2.4 4.9 40 17 1.42 0.63 0.73 2.8 5.2 45 17 1.51 0.64 0.73 3.1 5.2 50 18 1.57 0.60 0.69 3.4 5.5 18 1.62 0.60 0.69 3.8 5.5 20 13 0.75 0.72 0.83 1.4 4.0 25 14 0.83 0.69 0.80 1.7 4.3 30 16 0.91 0.64 0.74 <th>Image: series of the se</th> <th>METRIC METRIC Pressure (psi) Radius (ft) Flow (gpm) Precip (n/n/n) Pressure (n/n/n) Radius (bar) Flow (l/m) Precip (m/n/n) 20 13 0.95 0.72 0.83 1.4 4.0 3.60 18 25 14 1.12 0.69 0.80 1.7 4.3 4.24 18 30 16 1.26 0.65 0.75 2.1 4.9 4.77 17 35 16 1.35 0.64 0.74 2.4 4.9 5.11 16 40 17 1.42 0.63 0.73 2.8 5.2 5.38 16 45 17 1.51 0.64 0.73 3.1 5.2 5.72 16 50 18 1.57 0.60 0.69 3.8 5.5 6.13 15 20 13 0.75 0.72 0.83 1.4 4.0 2.4 14 <</th> <th>U.S. METRIC Pressure (rps) Radius (rt) Flow (gpm) Precip (n/h) Precip (n</th> <th>METRIC Pressure (ps) Radius (ft) Gymm Precip (n/h) Precip (n/h) Pressure (n/h) Radius (m) How (m) Precip (m/m) P</th> <th>U.S. METRIC Presure (ps) Radius (ft) Gpow (m/hr) Precip (m/hr) Precip (m/</th> <th>METRIC Image: Colspan="4">METRIC Image: Colspan="4">Metric Colspan="4">Addius Image: Colspan="4">Metric Colspan="4"</th> <th>METRIC METRIC Radius flow flow flow flow flow flow flow flow</th> <th>METRIC Radius Radius Redus Redus<th>U.S. METRIC Radius (ps) Row (mch) Pressure (mch) Row (mch) Pressure (mch)</th><th>U.S. METRIC Radius Flow Precip Precip Radius Flow Precip Prec</th><th>U.S. METRIC Pressure (rb) (ps) Precip (nchin) Pr</th><th>U.S. METRIC Pressure (ft) Radius (m/m) Precip (m/m) Precip</th><th>U.S. METRIC METRIC</th></th>	Image: series of the se	METRIC METRIC Pressure (psi) Radius (ft) Flow (gpm) Precip (n/n/n) Pressure (n/n/n) Radius (bar) Flow (l/m) Precip (m/n/n) 20 13 0.95 0.72 0.83 1.4 4.0 3.60 18 25 14 1.12 0.69 0.80 1.7 4.3 4.24 18 30 16 1.26 0.65 0.75 2.1 4.9 4.77 17 35 16 1.35 0.64 0.74 2.4 4.9 5.11 16 40 17 1.42 0.63 0.73 2.8 5.2 5.38 16 45 17 1.51 0.64 0.73 3.1 5.2 5.72 16 50 18 1.57 0.60 0.69 3.8 5.5 6.13 15 20 13 0.75 0.72 0.83 1.4 4.0 2.4 14 <	U.S. METRIC Pressure (rps) Radius (rt) Flow (gpm) Precip (n/h) Precip (n	METRIC Pressure (ps) Radius (ft) Gymm Precip (n/h) Precip (n/h) Pressure (n/h) Radius (m) How (m) Precip (m/m) P	U.S. METRIC Presure (ps) Radius (ft) Gpow (m/hr) Precip (m/hr) Precip (m/	METRIC Image: Colspan="4">METRIC Image: Colspan="4">Metric Colspan="4">Addius Image: Colspan="4">Metric Colspan="4"	METRIC METRIC Radius flow flow flow flow flow flow flow flow	METRIC Radius Radius Redus Redus <th>U.S. METRIC Radius (ps) Row (mch) Pressure (mch) Row (mch) Pressure (mch)</th> <th>U.S. METRIC Radius Flow Precip Precip Radius Flow Precip Prec</th> <th>U.S. METRIC Pressure (rb) (ps) Precip (nchin) Pr</th> <th>U.S. METRIC Pressure (ft) Radius (m/m) Precip (m/m) Precip</th> <th>U.S. METRIC METRIC</th>	U.S. METRIC Radius (ps) Row (mch) Pressure (mch) Row (mch) Pressure (mch)	U.S. METRIC Radius Flow Precip Precip Radius Flow Precip Prec	U.S. METRIC Pressure (rb) (ps) Precip (nchin) Pr	U.S. METRIC Pressure (ft) Radius (m/m) Precip (m/m) Precip	U.S. METRIC METRIC

Note: Radius refers to recommended spacing to achieve optimal precipitation rate and distribution uniformity with head to head spacing. Performance data taken in zero wind conditions.

■ Square spacing based on 50% diameter of throw. ▲ Triangular spacing based on 50% diameter of throw.



RWS (Root Watering Series)

Root watering system promotes deep root growth and healthy tree development.

- Deep root watering and aeration accelrates growth and ensures tree health.
- Subsurface aeration and irrigation prevents tree and shrub transplant shock.
- 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, protects the emission device and reduces risk of injury.
- Helps prevent shallow root growth and costly damage to hardscape.
- · Self-contained and factory-assembled units for assured reliability.
- Variety of models available to accommodate design flexibility.

For the RWS Model:

- 4" (10 cm) retaining cap and vandal-resistant locking grate tops a 36" (91 cm) semi-rigid mesh tube.
- Factory installed swing assemblies (exluding RWS) with a 1401 (0.25 gpm; 0.95 l/m), 1402 (0.5 gpm;
- 1.9 l/m), or 1404 (1.00 gpm; 3.8 l/m) bubbler on a fixed riser makes connecting to lateral lines easy.
- Optional check valve included to keep the lines from draining.
- 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" (46 cm) semi-rigid mesh tube.
- Factory-installed ½" (1 cm) spiral barb elbow with a 1401 or 1402 bubbler makes connecting to lateral lines easy.
- Optional check valve included to keep the lines from draining.
- 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 cm) semi-rigid mesh tube.
- Factory installed 1/2" (1 cm) spiral barb elbow with 1401 bubbler makes connecting to lateral lines easy.
- Optional check valve included to keep the lines from draining.

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 the RWS canister.

· Perfect for shrubs.

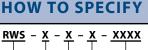


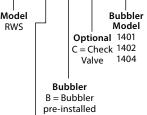


RWS integrated collar and locking grate retainer.



Root Watering System





Other Size M = Mini S = Supplemental

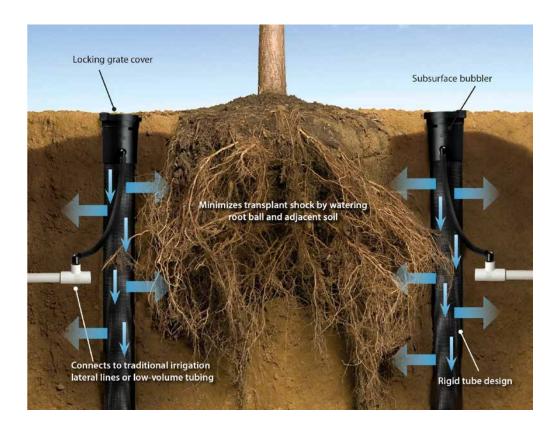


DIMENSIONS

- Root Watering: 4" (10 cm) diameter x 36" (91 cm) length
- Root Watering-Mini: 4" (10 cm) diameter x 18" (46 cm) length
- Root Watering-Supplemental: 2" (5 cm) diameter x 10" (25 cm) length

MODEL	BUBBLER	CHECK VALVE	SWING ASSEMBLY with ½" (1.3 cm) (15/21) M NPT Inlet	SPIRAL BARB ELBOW with ½" (1.3 cm) (15/21) M NPT inlet	
ROOT WATERING (36" (91 cm) leng	th with 4" (10 cm) vandal-resistant locking grate)				
RWS-B-C-1401	0.25 gpm (0.95 lpm)	Yes	Yes	-	
RWS-B-1401	0.25 gpm (0.95 lpm)	-	Yes	-	
RWS-B-X-1401	0.25 gpm (0.95 lpm)	-	Yes (18")	-	
RWS-B-C-1402	0.50 gpm (1.90 lpm)	Yes	Yes	-	
RWS-B-1402	0.50 gpm (1.90 lpm)	-	Yes	-	
RWS-B-C-1404	1.00 gpm (3.80 lpm)	Yes	Yes	-	
ROOT WATERING-MINI (18" (46 c	m) length with 4" (10 cm) vandal-resistant locking gra	ate)			
RWS-M-B-C-1041	0.25 gpm (0.95 lpm)	Yes	-	Yes	
RWS-M-B-1401	0.25 gpm (0.95 lpm)	-	-	Yes	
RWS-M-B-C-1402	0.50 gpm (1.90 lpm)	Yes	-	Yes	
RWS-M-B-1402	0.50 gpm (1.90 lpm)	-	-	Yes	
ROOT WATERING-SUPPLEMEN	TAL (10" (25 cm) length with 2" (5 cm) snap-on cap a	nd base)			
RWS-S-B-C-1401	0.25 gpm (0.95 lpm)	Yes	-	Yes	
RWS-S-B-1401	0.25 gpm (0.95 lpm)	-	-	Yes	

WS-GRATE-P (Root Watering Series Purple Grate for RWS and RWS Mini)





XFS Copper-Colored Sub-Surface Dripline with Copper Shield[™] Technology

Rain Bird's patent-pending XFS sub-surface dripline with Copper Shield[™] Technology protects the emitter from root intrusion, creating a long-lasting, low maintenance sub-surface drip irrigation system for use under turf grass all shrub and groundcover areas.

Ideal for small, narrow and tight planting areas near clubhouses, parking lot mediums, walkways and cart paths, bunker facings and under turf grass. Also perfect for installation on greens and driving ranges.

Accepts Rain Bird Easy Fit Compression Fittings, XFF Dripline Barbed Insert Fittings and other 17 mm barbed insert fittings.

FEATURES

Simple

- Rain Bird's low-profile emitter design reduces in-line pressure loss, allowing longer lateral runs, simplifying design and reducing installation time.
- Variety of emitter flow rates, emitter spacing and coil lengths provide maximum design flexibility for either sub-surface turf, or on-surface shrub and groundcover applications.

Reliable

- XFS sub-surface dripline emitters are protected from root intrusion by Rain Bird's patent-pending Copper Shield Technology resulting in a system that does not require maintenance or replacement of chemicals to prevent root intrusion.
- The pressure-compensating emitter design provides a consistent flow over the entire lateral length ensuring higher uniformity for increased reliability in the pressure range of 8.5 to 60 psi.

Durable

- Dual-layered tubing (copper over black) provides unmatched resistance to chemicals, algae growth and UV damage.
- Grit Tolerant: Rain Bird's proprietary emitter design resists clogging by use of an extra-wide flow path combined with a self-flushing action.

OPERATING RANGE

Pressure: 8.5 to 60 psi (0.58 to 4.14 bar) Flow rates: 0.6 and 0.9 gph (2.3 l/hr and 3.5 l/hr)

Temperature:

Water: Up to 100°F (37.8° C) Ambient: Up to 125°F (51.7° C)

Required Filtration: 120 mesh

SPECIFICATIONS

Dimensions: OD: 0.634" (16mm) ID: 0.536" (13.6mm) Thickness: 0.049" (1.2mm) Spacing: 12", 18", 24" (30.5 cm, 45.7 cm, 61.0 cm)

Coils: 100' and 500' (30.5 m and 152.4 m) Coil Color: Copper



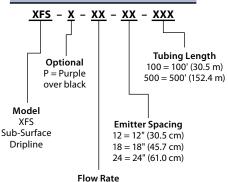
XFS Dripline offers increased flexibility for easy installation





• XFS Sub-Surface Dripline

HOW TO SPECIFY



 $^{06 = 0.61 \}text{ gph} (2.1 \text{ l/h})$ 09 = 0.92 gph (3.5 l/h)



Large-Capacity Filters

Large capacity and low maintenance with a solid build

- High flow rate disc filtration units are ideal for use with ponds and other water features
- Provides extra large filtration capacity for residential, commercial, and municipal applications
- Durable filters can be easily removed for cleaning, significantly reducing cleaning time

FEATURES

- Disc filters can decompress for easy cleaning
- Available with 120 mesh Stainless Steel Screen Filters or 120 mesh disc filters
- Auxiliary connection with a threaded cap can be drilled to allow draining or depressurization
- Larger filters for higher flow and lower maintenance

OPERATING RANGE

1" Model:

Maximum Flow: Up to 26 gpm (6 m3/hr)

- Filtering Surface (disc): 28 in² (180cm²)
- 1.5" Models:

Maximum Flow: Up to 88 gpm (20 m3/hr)

- Filtering Surface (disc): 83 in² (535 cm²)
- Filtering Surface (screen): 76 in² (490 cm²)
- 2" Models:
 - Maximum Flow: Up to 110 gpm (25 m³/hr) Filtering Surface (disc): 81 in² (525 cm²)

Filtering Surface (screen): 75 in² (485 cm²) Maximum Pressure: 116 psi (8 bar) Maximum Temperature: Up to 140° F (60° C)

MODELS

LCRBY100D: 1" large-capacity disc filter LCRBY150S: 1.5" large-capacity screen filter LCRBY150D: 1.5 large-capacity disc filter LCRBY200S: 2" large-capacity screen filter LCRBY200D: 2" large-capacity disc filter

SPARE PARTS

- SMFC120MS: 34" 1" SCRN CART LG CAP 120M
- SMFC120MD: 3/4" 1" DISC CART LG CAP 120M
- LGFC120MS: 1 1/2" 2" SCRN CRT LG CAP 120M
- LGFC120MD: 1 1/2" 2" DISC CRT LG CAP 120M



SPECIFICATIONS

Inlet / Outlet Size:

- 1" Models: 1" NPT
- 1.5" Models: 1.5" NPT
- 2" Models: 2" NPT

FILTRATION

- Screen Filter*: 120 Mesh (130 Micron)
- Plastic Filter Discs: 120 Mesh (130 Micron)



Screen Filter:

The 120 mesh screen filters are easy to clean and provide reliable filtration.

Plastic Filter Discs:

These filters are made up of over a hundred grooved discs that allow water to pass while trapping debris. Less maintenance required due to large surface area.





Disc and Screen Filters

PRESSURE LOSS CHARACTERISTICS — DISC FILTER							
U.S.			METRIC				
Flow (gpm)	1" Filter (psi)	1.5" Filter (psi)	2" Filter (psi)	Flow (I/m)	2.5 cm Filter (bar)	3.8 cm Filter (bar)	5.1 cm Filter (bar)
5	0.60	0.08	0.10	18.93	0.04	0.01	0.01
11	1.16	0.18	0.10	41.67	0.08	0.01	0.01
22	2.61	0.40	0.10	83.33	0.18	0.03	0.01
33	4.35	0.73	0.24	125.00	0.30	0.05	0.02
44	-	1.05	0.40	166.67	-	0.07	0.03
55	-	1.50	0.60	208.33	-	0.10	0.04
66	-	2.18	0.82	250.00	-	0.15	0.06
77	-	3.10	1.10	291.67	-	0.21	0.08
88	-	3.95	1.60	333.33	-	0.27	0.11
99	_	-	2.03	375.00	-	-	0.14
110	_	_	2.47	416.67	-	_	0.17



Disc Filter

PRESSURE LOSS CHARACTERISTICS — SCREEN FILTER

U.S.			METRIC				
Flow (gpm)	1" Filter (psi)	1.5" Filter (psi)	2" Filter (psi)	Flow (l/m)	2.5 cm Filter (bar)	3.8 cm Filter (bar)	5.1 cm Filter (bar)
5	0.80	0.00	0.00	18.93	0.06	0.00	0.00
11	1.74	0.00	0.00	41.67	0.12	0.00	0.00
22	2.90	0.50	0.20	83.33	0.20	0.03	0.01
33	4.06	0.95	0.25	125.00	0.28	0.07	0.02
44	-	1.45	0.44	166.67	-	0.10	0.03
55	1.89	0.60	0.60	208.33	-	0.13	0.04
66	-	2.32	0.87	250.00	-	0.16	0.06
77	-	2.76	1.16	291.67	-	0.19	0.08
88	-	3.19	1.45	333.33	-	0.22	0.10
99	-	-	1.89	375.00	-	-	0.13
110	-	_	2.32	416.67	-	_	0.16

FILTER HOUSING DIMENSIONS

Н

6.81"

9.53"

9.76"

W

7.48"

10.25"

10.63"

Х

6.22"

9.92"

10.51"

D

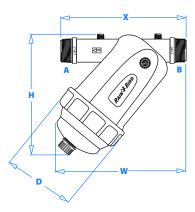
3.27"

5.67"

5.67"



Screen Filter



Model

1" (2.5 cm)

1.5" (2.5 cm)

2" (5.1 cm)

Letters correspond to diagram on right.

A, B

1" NPT

1.5" NPT

2"NPT



VB Series Valve Boxes

A rich set of industry-leading features that ensure strength, durability and fast installations save you time, money and reduce the need for unscheduled service calls.

- 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 knockout provides faster and easier installation.

FEATURES AND BENEFITS

These features apply to the Standard, Jumbo, Super Jumbo, Maxi Jumbo, and 7" and 10" Round Valve Boxes:

- Unique bolt hole knock-out design in lid keeps hazardous insects and 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.

keeps hazardous insect pests out when bolt is not used. Shovel Access

Slot for easy

removal of lid.

Bolt Hole Knock-out

Corrugated Sides maintain structural integrity under heavy load.

> Beveled Lid Edges prevent damage from lawn equipment.

> > LEED-Compliant 100% recycled material in black bodies and lids.

Multiple Sizes and Shapes make it easy to choose the right boxes for the job.

Wide Flange stabilizes box eliminatina need for block or brick and provides enhanced side load strength.

Interlocking Feature locks two boxes together when fitted bottom-to-bottom for deep installations.

Knock-out Retainers hold removed knock-outs in place and keep out backfill dirt.

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

DIMENSIONS AND ACCOMMODATIONS



7" ROUND SERIES

(VB-7RND)

6.4" Top Diam x 9.0" H

x 9.8" Bottom Diam

(16.3 cm x 22.9 cm x 24.9 cm)

Four equally spaced

knock-outs accommodate

up to a 2" (5.0 cm)

diameter pipe.

STANDARD 6

(VB-STD-6EXT)

20 0"L x 14 75"W x 6 75"H

(50.8 cm x 37.5 cm x 17.1 cm)



10" ROUND SERIES

(VB-10RND)

10.25" Top Diam x 10.0" H x 13.75"

Bottom Diam

(26.0 cm x 25.4 cm x 34.9 cm)

Four equally spaced knock-outs

accommodate up to a 2" (5.0 cm)

diameter pipe. (Extension does

not have knock-outs.)

IUMBO 6

(VB-JMB-6EXT)

24 4" I x 17 9" W x 6 75" H

(62.0 cm x 45.5 cm x 17.1 cm)



(VB-STD)

VALVE BOX LIDS

Green – Traditional Soils

Purple – Non-potable Water

Black – Recyclable Material







Knock-outs

built into all

four sides.



MAXI JUMBO

RECTANGULAR SERIES JUMBO RECTANGULAR **RECTANGULAR SERIES RECTANGULAR SERIES** SERIES (VB-JMB) (VB-SPR) (VB-MAX) 21.8" L x 16.6" W x 12.0" H 26.3" L x 19.8" W x 12.1" H 31.1" L x 23.8" W x 15.0" H 40.3" L x 27.1" W x 18.0" H (55.4 cm x 42.2 cm x 30.5 cm) (66.8 cm x 50.3 cm x 30.7 cm) (84.1 cm x 60.5 cm x 38.1 cm) (102.4 cm x 68.8 cm x 45.7 cm) Two large center knock-outs Two large center knock-outs Sixteen knock-outs Sixteen knock-outs accommodate up to a 3½" (8.9 cm) diameter pipe and accommodate up to a 31/2" (8.9 cm) diameter pipe. accommodate up to a accommodate up to a 31/2" (8.9 cm) diameter pipe. 31/2" (8.9 cm) diameter pipe. twelve knock-outs accommodate up to 2" (5.0 cm) diameter pipe. Includes two stainless steel Includes two stainless steel bolts and clips to securely fasten the lid to the body. bolts and clips to securely fasten the lid to the body.



Patented feature for deep installations. All boxes mate securely together.



VALVE BOX EXTENSIONS

EXTERNAL DIMENSIONS

EXTERNAL DIMENSIONS

ACCOMMODATIONS