

Valves

Rain Bird® Valves are ruggedly reliable and expertly engineered to provide an elevated standard of product integrity that is unmatched in the industry. Constructed of industrial-strength glass-filled nylon or classic brass, Rain Bird Valves are designed to withstand the harshest environments, and the lasting, trouble-free performance continues to earn the trust of golf course professionals worldwide.



100-PESB/PESB-R, 150-PESB/PESB-R and 200-PESB/PESB-R

SPECIFICATIONS

Models:

- 100-PESB:** 1" (2.5 cm) (26/34)
- 100-PESB-R:** 1" (2.5 cm) (26/34)
- 150-PESB:** 1 1/2" (3.8 cm) (40/49)
- 150-PESB-R:** 1 1/2" (3.8 cm) (40/49)
- 200-PESB:** 2" (5.1 cm) (50/60)
- 200-PESB-R:** 2" (5.1 cm) (50/60)
- 100-PESB-R-WK:** 1" (2.5 cm) (26/34) Conversion Kit
- 150-PESB-R-WK:** 1 1/2" (3.8 cm) (40/49) Conversion Kit
- 200-PESB-R-WK:** 2" (5.1 cm) (50/60) Conversion Kit

Valve and PRS-D module must be ordered separately.
See page 48 for more information on the PRS-D option.

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

Flow: 0.25 to 200 gpm (0.06 to 45.5 m³/h);
(1.2 to 757 l/m)

Flow with PRS-D: 5 to 200 gpm (1.1 to 45.4 m³/h);
(19.2 to 757 l/m)

Pressure: 20 to 200 psi (1.38 to 13.8 bar)

Pressure with PRS-D: Up to 100 psi (6.90 bar)
The PRS-D option adds 2" (5.1 cm) to valve height.

Electrical Specifications:

- Power:** 24 VAC 50/60 Hz (cycles/sec) solenoid
- Inrush Current:** 0.41 A (9.84 VA) at 60 Hz
- Holding Current:** 0.14 A (3.43 VA) at 60 Hz
- Coil Resistance:** 30 to 39 ohms



● PESB



● PESB-R

Dimensions:

100-PESB/PESB-R (1"):

- Height:** 6 1/2" (16.5 cm)
- Length:** 4" (10.2 cm)
- Width:** 4" (10.2 cm)

150-PESB /PESB-R (1 1/2"):

- Height:** 8" (20.3 cm)
- Length:** 6" (15.2 cm)
- Width:** 6" (15.2 cm)

200-PESB /PESB-R (2"):

- Height:** 8" (20.3 cm)
- Length:** 6" (15.2 cm)
- Width:** 6" (15.2 cm)

Temperature: 150°F (66°C) maximum

HOW TO SPECIFY

XXX	-	XXXX-X	-	XXX-X
Size		Model		Optional Feature
100		PESB		PRS-D
150		PESB-R		ICM
200				

Also available in IC configuration.
Please see page 21 on how to specify.

PESB/PESB-R Series Valves

U.S. Data — Pressure Loss* (psi)

Flow (gpm)	100-PESB /PESB-R 1"	150-PESB /PESB-R 1 1/2"	200-PESB /PESB-R 2"
0.25	0.8/1.6	—	—
0.5	1.0/3.0	—	—
1	1.3/1.8	—	—
5	1.7/2.9	—	—
10	1.8/2.9	—	—
20	2.9/2.6	3.9/3.5	—
30	5.6/5.8	3.6/3.1	—
40	10.0/10.2	3.5/2.3	—
50	15.6/16.0	3.6/2.1	4.8/3.7
75	—	5.4/4.3	4.5/3.3
100	—	9.6/7.5	5.2/4.7
125	—	14.6/11.9	8.2/8.6
150	—	21.2/17.0	11.8/12.6
175	—	—	15.5/14.8
200	—	—	19.5/18.9

Metric Data — Pressure Loss* (bar)

Flow (m ³ /h)	Flow (l/m)	100-PESB /PESB-R 2.5 cm	150-PESB /PESB-R 3.8 cm	200-PESB /PESB-R 5.1 cm
0.06	1	0.06/0.11	—	—
0.3	5	0.09/0.13	—	—
0.6	10	0.10/0.15	—	—
1.2	20	0.12/0.20	—	—
3	50	0.15/0.19	—	—
6	100	0.32/0.32	0.26/0.22	—
9	150	0.68/0.69	0.24/0.16	—
12	200	—	0.26/0.16	0.33/0.25
15	250	—	0.33/0.24	0.32/0.24
18	300	—	0.42/0.33	0.32/0.25
21	350	—	0.57/0.45	0.34/0.30
24	400	—	0.74/0.59	0.41/0.38
27	450	—	0.92/0.75	0.51/0.53
30	500	—	1.14/0.91	0.64/0.67
33	550	—	1.38/1.10	0.77/0.82
36	600	—	—	0.90/0.92
39	650	—	—	1.04/1.00
42	700	—	—	1.18/1.13
45	757	—	—	1.34/1.30

1. Rain Bird recommends flow rates in the supply line not to exceed 7 1/2 ft/sec (2.29 m/s) in order to reduce the effects of water hammer.
2. For flows below 5 gpm (1.14 m³/h, 19.2 l/m), Rain Bird recommends use of upstream filtration to prevent debris from collecting below the diaphragm.
3. For flows below 10 gpm (2.27 m³/h, 37.8 l/m), Rain Bird recommends that the flow control stem be turned down two full turns from the fully open position.
4. PRS-D recommended for use in shaded area only.

*Loss values are with flow control fully open using the tan solenoid retainer.

100-EFB-CP-R, 150-EFB-CP-R and 200-EFB-CP-R

SPECIFICATIONS

Models:

- 100-EFB-CP-R:** 1" (2.5 cm)
- 150-EFB-CP-R:** 1½" (3.8 cm)
- 200-EFB-CP-R:** 2" (5.1 cm) (Brass)

Valve and PRS-D module must be ordered separately.
See page 50 for more information on the PRS-D option.

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

Flow with or without PRS-D: 5 to 200 gpm
(19.2 to 757 l/m)

Pressure: 15 to 200 psi (1.0 to 13.8 bar)

Pressure with PRS-D: 15 to 100 psi (1.0 to 7.0 bar)

Pressure Requirements using PRS-D: 15 psi (1.0 bar) inlet pressure above desired outlet pressure

Note: The PRS-D option adds 2" (5.1 cm) to valve height.

Electrical Specifications:

Power: 24 VAC

50/60 Hz (cycles/sec) solenoid

Inrush current: 0.41 A (9.84 VA) at 60 Hz

Holding current: 0.14 A (3.43 VA) at 60 Hz

Coil resistance: 30 to 39 ohms

Dimensions:

100-EFB-CP-R (1"):

- Height:** 6" (15.2 cm)
- Length:** 4½" (11.4 cm)
- Width:** 3¼" (8.3 cm)

150-EFB-CP-R (1½"):

- Height:** 6½" (16.5 cm)
- Length:** 5½" (14.0 cm)
- Width:** 4½" (11.4 cm)

200-EFB-CP-R (2"):

- Height:** 7" (17.8 cm)
- Length:** 6¾" (17.1 cm)
- Width:** 5¾" (14.6 cm)

Temperature: 150°F (66°C) maximum



● 100-EFB-CP-R

HOW TO SPECIFY

XXX	EFB-CP-R	XXX-X
Size	Model	Optional Feature
100	EFB-CP-R	PRS-D
150		ICM
200		

Also available in IC configuration.
Please see page 21 on how to specify.

NEW RECLAIMED STANDARD:

Features chlorine-resistant EPDM diaphragm for applications using reclaimed water.

EFB-CP-R Series Valves

U.S. Data — Pressure Loss* (psi)

Flow (gpm)	Pressure Loss* (psi)		
	100-EFB-CP-R 1"	150-EFB-CP-R 1½"	200-EFB-CP-R 2"
5	0.2	—	—
10	0.7	—	—
15	1.2	—	—
20	2.1	2.3	0.5
30	5.0	2.9	0.6
40	8.2	2.0	0.8
50	13.0	3.3	1.1
60	—	4.6	1.8
80	—	7.5	2.4
100	—	11.8	3.8
120	—	16.6	5.9
140	—	—	7.8
160	—	—	10.0
180	—	—	12.5
200	—	—	15.8

Metric Data — Pressure Loss* (bar)

Flow (m³/h)	Flow (l/m)	Pressure Loss* (bar)		
		100-EFB-CP-R 2.5 cm	150-EFB-CP-R 3.8 cm	200-EFB-CP-R 5.1 cm
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

1. Rain Bird recommends flow rates in the supply line not to exceed 7½ ft/sec (2.29 m/s) in order to reduce the effects of water hammer.

2. For flows below 5 gpm (1.14 m³/h, 19.2 l/m), Rain Bird recommends use of upstream filtration to prevent debris from collecting below the diaphragm.

3. For flows below 10 gpm (2.27 m³/h, 37.8 l/m), Rain Bird recommends that the flow control stem be turned down two full turns from the fully open position.

4. PRS-D recommended for use in shaded area only.

*Loss values are with flow control fully open using the tan solenoid retainer.

300-BPES Brass Valves

SPECIFICATIONS

Models:

300-BPES: 3" (7.6 cm) (80/90)

Valve and PRS-D module must be ordered separately. 9 for more information on the PRS-D option.

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

Flow with or without PRS-D: 60 to 300 gpm (13.6 to 68.1 m³/h); (227 to 1136 l/m)

Pressure: 20 to 200 psi (1.4 to 13.8 bar)

Pressure with PRS-D: Up to 100 psi (6.9 bar)

Pressure Requirements using PRS-D: 15 psi (1.0 bar) inlet pressure above desired outlet pressure

Note: The PRS-D option adds 2" (5.1 cm) to valve height.

Dimensions:

300-BPES (3"):

Height: 13 5/8" (34.6 cm)

Length: 8" (20.32 cm)

Width: 7" (17.78 cm)

Temperature: 110°F (43° C) maximum

Electrical Specifications:

Power: 24 VAC 50/60 Hz (cycles/sec) solenoid

Inrush current: 0.41 A (9.84 VA) at 60 Hz

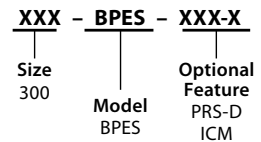
Holding current: 0.28 A (6.72 VA) at 60 Hz

Coil resistance: 28 ohms, nominal



● 300-BPES

HOW TO SPECIFY



Also available in IC configuration. Please see page 21 on how to specify.

RECOMMENDATIONS

Rain Bird recommends flow rates in the supply line not to exceed 7 1/2 ft/sec (2.29 m/s) in order to reduce the effects of water hammer.

BPES 3" (7.6 cm) Valves

U.S. Data — Pressure Loss* (psi)			Metric Data — Pressure Loss* (bar)			
Flow (gpm)	Globe	Angle	Flow (m ³ /h)	Flow (l/m)	Globe 2.5 cm	Angle 3.8 cm
60	6.6	6.8	13.6	227	0.46	0.47
80	5.1	5.9	24	400	0.19	0.21
100	3.2	3.5	36	600	0.14	0.14
120	1.8	1.8	48	800	0.21	0.19
140	1.8	2.1	60	1000	0.29	0.26
160	2.0	2.1	68	1136	0.34	0.31
180	2.2	2.0				
200	2.7	2.5				
250	4.0	3.4				
300	4.9	4.5				

*Loss values are with flow control fully open using the tan solenoid retainer.

Quick Coupling Valves

SPECIFICATIONS

Models:

- 3RC:** ¾" (1.9 cm) (20/27) Rubber cover, one-piece body
- 33DRC:** ¾" (1.9 cm) (20/27) Double track key lug, rubber cover, two-piece body
- 33DLRC:** ¾" (1.9 cm) (20/27) Double track key lug, locking rubber cover, two-piece body
- 33DNP:** ¾" (1.9 cm) (20/27) Non-potable, purple locking rubber cover, two-piece body
- 44RC:** 1" (2.5 cm) (26/34) Rubber cover, two-piece body
- 44LRC:** 1" (2.5 cm) (26/34) Locking rubber cover, two-piece body
- 44NP:** 1" (2.5 cm) (26/34) Non-potable, purple locking rubber cover, two-piece body
- 5RC:** 1" (2.5 cm) (26/34)* Rubber cover, one-piece body
- 5LRC:** 1" (2.5 cm) (26/34)* Locking rubber cover, one-piece body
- 5NP:** 1" (2.5 cm) (26/34) Non-potable, purple locking rubber cover, one-piece body
- 7:** 1 ½" (3.8 cm) (40/49)* Metal cover, one-piece body

Flow:

- Models 3RC, 33DRC, 33DLRC, 33DNP, 44RC, 44LRC, 44NP, 5RC, 5LRC, 5NP, 7:** 10 to 125 gpm (2.27 to 28.39 m³/h; 37.8 to 473 l/m)
- Models 33DNP, 44NP, 5NP:** 10 to 70 gpm (2.27 to 15.89 m³/h; 37.8 to 265 l/m)

Pressure: 5 to 125 psi (0.4 to 8.6 bar)

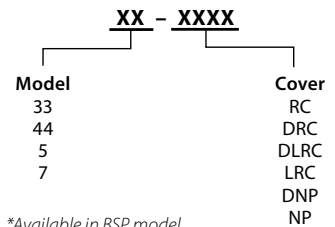
Height:

- 3RC:** 4.3" (10.8 cm)
- 33DRC:** 4.4" (11.1 cm)
- 33DLRC:** 4.6" (11.8 cm)
- 33DNP:** 4.4" (11.1 cm)
- 44RC:** 6.0" (15.2 cm)
- 44LRC:** 6.0" (15.2 cm)
- 44NP:** 6.0" (15.2 cm)
- 5RC:** 5.5" (14.0 cm)
- 5LRC:** 5.5" (14.0 cm)
- 5NP:** 5.5" (14.0 cm)
- 7:** 5.8" (14.6 cm)



● Quick Coupling Valves

HOW TO SPECIFY



**Available in BSP model.*



55K-1

● Quick Coupling Valve Keys

Quick Coupling Valve Keys

Top Pipe Threads

Valve	Key	Male	Female
3RC	33DK	¾"	19 mm
33DRC	33DK	¾"	19 mm
33NP	33DK	¾"	19 mm
44NP	44K	1"	25 mm
44RC	44K	1"	25 mm
5RC	55K-1	1"	25 mm
5NP	55K-1	1"	25 mm
7	7K	1 ½"	38 mm

Quick Coupling Valves

U.S. Data — Pressure Loss* (psi)

Flow (gpm)	3RC 0.75"	33DRC, 33DLRC, 33DNP 0.75"	44RC, 44LRC, 44NP 1"	5RC, 5LRC, 5NP 1"	7 1.50"
10	1.8	2.0	—	—	—
15	4.7	4.3	2.2	—	—
20	7.2	7.6	4.4	—	—
30	—	—	11.5	4.1	—
40	—	—	—	7.3	—
50	—	—	—	11.0	1.7
60	—	—	—	15.7	2.5
70	—	—	—	21.5	3.6
80	—	—	—	—	4.9
90	—	—	—	—	8.4
100	—	—	—	—	14.0

Metric Data — Pressure Loss* (bar)

Flow (m ³ /h)	Flow (l/m)	3RC 1.9 cm	33DRC, 33DLRC, 33DNP 1.9 cm	44RC, 44LRC, 44NP 2.5 cm	5RC, 5LRC, 5NP 2.5 cm	7 3.8 cm
2.3	38	0.12	0.12	—	—	—
4	67	0.41	0.42	0.23	—	—
5	83	0.57	0.62	0.40	—	—
6	100	—	—	0.62	—	—
7	117	—	—	0.83	0.30	—
8	133	—	—	—	0.40	—
9	150	—	—	—	0.50	—
10	167	—	—	—	0.61	—
12	200	—	—	—	0.85	0.13
14	233	—	—	—	1.15	0.18
16	267	—	—	—	1.50	0.25
22	367	—	—	—	—	0.54
28	473	—	—	—	—	0.97

Pressure Regulating Module

The PRS-Dial is an excellent means of regulating outlet pressure at the valve regardless of incoming pressure fluctuations. The visible scale makes adjustments quick and easy. The regulator fits all Rain Bird® PGA, PEB, PESB, PESB-R, GB, EFB-CP and BPES series valves.

Regulates and maintains constant outlet pressure between 15 and 100 psi (1.04 to 6.9 bar) within ±3 psi (±0.21 bar).

Adjustment knob with detents permits fine-tune setting in 1/3 psi (0.02 bar) increments. Dial cartridge makes installation and adjustment quick, easy and accurate.

FEATURES

- Improved spike reduction capabilities reduce water hammer.
- Ergonomic design with snap-tight cover to prevent vandalism.
- Waterproof dial cartridge eliminates fogging and binding.
- Dial cartridge retrofits into all existing PRS-B units.
- Schrader valve connects pressure hose gauge, ordered separately.
- Easy field installation — PRS-Dial threads underneath the solenoid and adapter.
- Corrosion-resistant glass-filled nylon for rugged performance.

OPERATING RANGE

Pressure: Up to 100 psi (6.9 bar)¹

Regulation: 15 to 100 psi (1.04 to 6.9 bar)

Accuracy: ±3 psi (±0.21 bar)

Flow: Refer to chart

Valve Flow Ranges²

U.S. Data		Metric Data		
Model	gpm	Model	m ³ /h	l/m
100-PGA	5–40	100-PGA	1.14–9.08	19.2–15.1
150-PGA	30–100	150-PGA	6.81–22.70	113–378
200-PGA	40–150	200-PGA	9.08–34.05	151–568
100-PEB	5–50	100-PEB	1.14–11.35	19.2–189
150-PEB	20–150	150-PEB	4.54–34.05	76–568
200-PEB	75–200	200-PEB	17.03–45.40	284–757
100-PESB/PESB-R	5–50	100-PESB/PESB-R	1.14–11.35	19.2–189
150-PESB/PESB-R	20–150	150-PESB/PESB-R	4.54–34.05	76–568
200-PESB/PESB-R	75–200	200-PESB/PESB-R	17.03–45.40	284–757
100-GB	5–50	100-GB	1.14–11.35	19.2–189
125-GB	20–80	125-GB	4.54–18.16	76–302
150-GB	20–120	150-GB	4.54–31.78	76–529
200-GB	20–200	200-GB	4.54–45.40	76–757
100-EFB-CP-R	5–50	100-EFB-CP-R	1.14–11.35	19.2–189
125-EFB-CP-R	20–80	125-EFB-CP-R	4.54–18.16	76–302
150-EFB-CP-R	20–120	150-EFB-CP-R	4.54–31.78	76–529
200-EFB-CP-R	20–200	200-EFB-CP-R	4.54–45.40	76–757
300-BPES	60–300	300-BPES	13.62–68.10	227–1.136



MODELS

- PRS-D

APPLICATION INFORMATION

- Proper operation requires inlet pressure to be a minimum of 15 psi (1.04 bar) higher than desired outlet pressure.
- For areas with very high pressure or uneven terrain, install sprinklers with PRS pressure regulating stems and/or SAM check valves.
- When inlet pressure exceeds 100 psi (6.9 bar), a pressure regulating master valve or inline pressure regulator is required.
- Rain Bird does not recommend using the pressure regulating module for applications outside the recommended flow ranges.
- To reduce the effects of water hammer, Rain Bird recommends flow rates in the supply line not to exceed 7 1/2 ft/sec (2.29 m/s).
- For flows below 10 gpm (2.27 m³/h, 37.8 l/m), Rain Bird recommends the flow control stem be turned down two full turns from the fully open position.
- The PRS-D option adds an additional 2" (5.1 cm) to valve height.

● PRS-Dial

¹While the PRS-Dial unit can withstand pressures up to 200 psi (13.8 bar), accurate pressure regulation can be maintained only up to 100 psi (6.9 bar).

²The PRS-Dial regulates only up to 100 psi (6.9 bar).

DBRY Wire Connectors

CONNECTIONS MADE EASY

Install Faster

When your installation crew is making countless wire connections on a jobsite, why slow them down with unnecessary work steps? Use Rain Bird® DBRY wire connectors to get the job done faster.

Reduce Inventory

This is the only wire connector you'll need! It is ideal for use on two-wire decoder control systems.

- Use for standard controllers, valve boxes and soil moisture sensors.
- Wire combinations ranging from 22ga to 6ga.
- Use on connections from 24 VAC to 600 VAC.
- UL 486D certified for direct burial.

Avoid Call Backs

Locating and repairing a corroded wire splice costs your business time and money. Avoid unnecessary service call backs. Use Rain Bird DBRY wire connectors for reliable connections.

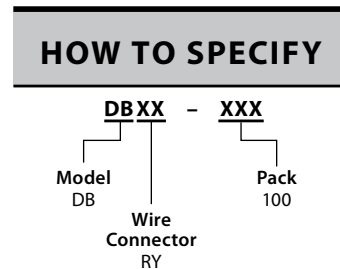
- The strain relief ensures wires are secure and won't pull apart.
- Waterproof silicone sealant protects against corrosion.
- UV-material ensures product performance does not degrade even after long periods of exposure to sunlight.

FEATURES AND BENEFITS

- Direct-bury silicone-filled tube with strain relief
- UL 486D listed and 600V rated waterproof and corrosion-proof
- Patent pending snap-fit lid provides strain relief
- UV- and impact-resistant
- Excellent for above-ground or direct-bury applications
- Pre-filled with silicone that never hardens
- Includes Red/Yellow Nut Connector
- Wire Range: Red/Yellow #6 – #22
- Perfect for Two-Wire Decoder Systems, Field Controller or Integrated Control Systems (ICS)



● DBRY Series



Service Tools

Rain Bird offers a full line of quality tools for the service and maintenance of Rain Bird Golf Rotors. Constructed of heavy-duty metal alloys and durable plastic, these tools are lightweight and easy to use.

D02203
Snap-Ring Pliers 900/950/1100/1150



D02236
Snap-Ring Pliers 700/750/500/550



B41700
Valve Insertion Tool 900/950/1100/1150



B41710
Valve Insertion Tool 700/750/500/550



B41720
EAGLE™ Selector Service Tool/Key



D02237
Installation Socket for
Top-Serviceable Rock Screen



D05205
Universal Hose Adapter



D02215
7" Selector Valve Key



D02221
18" Selector Valve Key



Y05100
351B Rotor Tool



232693S
351B Hold-up Tool

