The Club at Admirals Cove

VALVES

Raising the Standards of Reliability.

Rain Bird® valves are expertly engineered and manufactured to provide a level of quality and durability that's unmatched in the industry. Constructed of industrial-strength glass-filled nylon or classic brass, every model is built to stand up to the harshest environments. For decades, these valves have been delivering trouble-free performance that continues to earn the trust of golf course maintenance professionals worldwide.

Options for Every Need

Hold every aspect of your system to the highest standard. From reclaimed water applications to integrated control (IC) configuration, Rain Bird valves are designed to meet the needs of any course.

SPECIFICATIONS

Models:

100-PESB: 1" (2.5 cm) (26/34)
100-PESB-R: 1" (2.5 cm) (26/34)
150-PESB: 1 ½" (3.8 cm) (40/49)
150-PESB-R: 1 ½" (3.8 cm) (40/49)
200-PESB: 2" (5.1 cm) (50/60)
200-PESB-R: 2" (5.1 cm) (50/60)

Valve and PRS-D module must be ordered separately. See pages 62-63 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 (1.2 to 757 l/m); (0.06 to 45.5 m³/h)

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

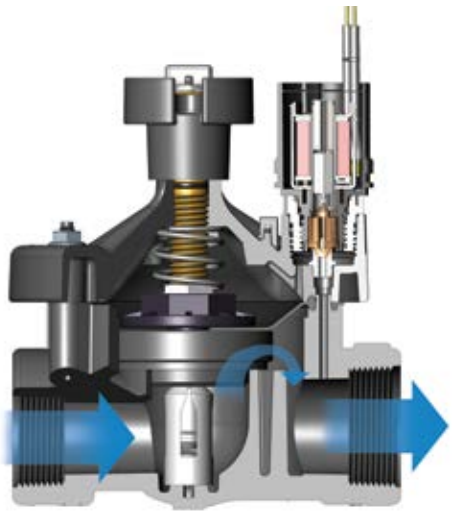
Pressure: 20 to 200 psi (1.38 to 13.8 bar)

Pressure with PRS-D*: Up to 100 psi (6.90 bar)

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

Temperature: 150°F (66°C) maximum



Dimensions:

100-PESB/PESB-R (1"):
Height: 6 ½" (16.5 cm)
Length: 4" (10.2 cm)
Width: 4" (10.2 cm)

150-PESB /PESB-R (1 ½"):
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)

HOW TO SPECIFY

XXX	–	XXXX-X	–	XXX-X
SIZE 100 = 1" 150 = 1 ½" 200 = 2"		MODEL PESB PESB-R		OPTIONAL FEATURE PRS-D = PRS Dial ICM = IC Module

NOTE: Valve and PRS-D or ICM must be ordered separately. See pages 36–37 on how to specify the IC configuration.

U.S. Data — Pressure Loss** (psi)

Flow gpm	100-PESB 1"	100-PESB-R 1"	150-PESB 1 ½"	150-PESB-R 1 ½"	200-PESB 2"	200-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

Rain Bird recommends flow rates in the supply line not to exceed 7 ½ ft/sec (2.29 m/s) in order to reduce the effects of water hammer. For flows below 5 gpm (19.2 l/m, 1.14 m³/h), Rain Bird recommends use of upstream filtration to prevent debris from collecting below the diaphragm. For flows below 10 gpm (37.8 l/m, 2.27 m³/h), Rain Bird recommends that the flow control stem be turned down two full turns from the fully open position. PRS-D recommended for use in shaded area only.

Metric Data — Pressure Loss** (bar)

Flow l/m	Flow m³/h	100-PESB 2.5 cm	100-PESB-R 2.5 cm	150-PESB 3.8 cm	150-PESB-R 3.8 cm	200-PESB 5.1 cm	200-PESB-R 5.1 cm
1	0.06	0.06	0.11	—	—	—	
5	0.3	0.09	0.13	—	—	—	
10	0.6	0.10	0.15	—	—	—	
20	1.2	0.12	0.20	—	—	—	
50	3	0.15	0.19	—	—	—	
100	6	0.32	0.32	0.26	0.22	—	
150	9	0.68	0.69	0.24	0.16	—	
200	12	—	—	0.26	0.16	0.33	0.25
250	15	—	—	0.33	0.24	0.32	0.24
300	18	—	—	0.42	0.33	0.32	0.25
350	21	—	—	0.57	0.45	0.34	0.30
400	24	—	—	0.74	0.59	0.41	0.38
450	27	—	—	0.92	0.75	0.51	0.53
500	30	—	—	1.14	0.91	0.64	0.67
550	33	—	—	1.38	1.10	0.77	0.82
600	36	—	—	—	—	0.90	0.92
650	39	—	—	—	—	1.04	1.00
700	42	—	—	—	—	1.18	1.13
757	45	—	—	—	—	1.34	1.30

*The PRS-D option adds 2" (5.1 cm) to valve height. **Loss values are with flow control fully open using the tan solenoid retainer.

SPECIFICATIONS

Models:
- **100-EFB-CP:** 1" (2.5 cm)
- **150-EFB-CP:** 1 ½" (3.8 cm)
- **200-EFB-CP:** 2" (5.1 cm) (Brass)

Valve and PRS-D module must be ordered separately. See pages 62-63 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

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 (1"):
- **Height:** 6" (15.2 cm)
- **Length:** 4 ½" (11.4 cm)
- **Width:** 3 ¼" (8.3 cm)

150-EFB-CP (1 ½"):
- **Height:** 6 ½" (16.5 cm)
- **Length:** 5 ½" (14.0 cm)
- **Width:** 4 ½" (11.4 cm)

200-EFB-CP (2"):
- **Height:** 7" (17.8 cm)
- **Length:** 6 ¾" (17.1 cm)
- **Width:** 5 ¾" (14.6 cm)

Temperature: 150°F (66°C) maximum

Purple handle cover included to designate non-potable water.

HOW TO SPECIFY

XXX	–	EFB-CP	–	XXX-X
SIZE 100 = 1" 150 = 1 ½" 200 = 2"		MODEL EFB-CP		OPTIONAL FEATURE PRS-D = PRS Dial

NOTE: Valve and PRS-D or ICM must be ordered separately. See pages 36–39 on how to specify the IC configuration.

Reclaimed Water Compatible

All models feature chlorine-resistant EPDM diaphragm for applications using reclaimed water.

U.S. Data — Pressure Loss** (psi)

Flow gpm	100-EFB-CP 1"	150-EFB-CP 1 ½"	200-EFB-CP 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 l/m	Flow m³/h	100-EFB-CP 2.5 cm	150-EFB-CP 3.8 cm	200-EFB-CP 5.1 cm
19	1	0.01	—	—
50	3	0.07	—	—
100	6	0.27	0.19	0.04
150	9	0.56	0.14	0.05
200	12	—	0.25	0.09
250	15	—	0.38	0.14
300	18	—	0.51	0.16
350	21	—	0.70	0.23
400	24	—	0.91	0.30
450	27	—	1.13	0.40
500	30	—	—	0.49
550	33	—	—	0.58
600	36	—	—	0.68
650	39	—	—	0.79
700	42	—	—	0.92
757	45	—	—	1.09

Rain Bird recommends flow rates in the supply line not to exceed 7 ½ ft/sec (2.29 m/s) in order to reduce the effects of water hammer. For flows below 5 gpm (19.2 l/m, 1.14 m³/h), Rain Bird recommends use of upstream filtration to prevent debris from collecting below the diaphragm. For flows below 10 gpm (37.8 l/m, 2.27 m³/h), Rain Bird recommends that the flow control stem be turned down two full turns from the fully open position.

*The PRS-D option adds 2" (5.1 cm) to valve height. **Loss values are with flow control fully open using the tan solenoid retainer.

SPECIFICATIONS

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

Valve and PRS-D module must be ordered separately. See pages 62-63 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 (227 to 1136 l/m); (13.6 to 68.1 m³/h)

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

Dimensions:
- **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

U.S. Data — Pressure Loss**

Flow gpm	Globe psi	Angle psi
60	6.6	6.8
80	5.1	5.9
100	3.2	3.5
120	1.8	1.8
140	1.8	2.1
160	2.0	2.1
180	2.2	2.0
200	2.7	2.5
250	4.0	3.4
300	4.9	4.5

Metric Data — Pressure Loss** (bar)

Flow l/m	Flow m³/h	Globe 2.5 cm	Angle 3.8 cm
227	13.6	0.46	0.47
400	24	0.19	0.21
600	36	0.14	0.14
800	48	0.21	0.19
1000	60	0.29	0.26
1136	68	0.34	0.31

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. For flows below 5 gpm (19.2 l/m, 1.14 m3/h), Rain Bird recommends use of upstream filtration to prevent debris from collecting below the diaphragm. For flows below 10 gpm (37.8 l/m, 2.27 m3/h), Rain Bird recommends that the flow control stem be turned down two full turns from the fully open position.

HOW TO SPECIFY

XXX	–	BPES	–	XXX-X
SIZE 300 = 3"		MODEL BPES		OPTIONAL FEATURE PRS-D = PRS Dial ICM = IC Module

NOTE: Valve and PRS-D must be ordered separately. See pages 36–37 on how to specify the IC configuration.

*The PRS-D option adds 2" (5.1 cm) to valve height. **Loss values are with flow control fully open using the tan solenoid retainer.

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

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 Valve Keys

Top Pipe Threads

Valve	Key	Male		Female	
3RC	33DK	¾"	19 mm	½"	13 mm
33DRC	33DK	¾"	19 mm	½"	13 mm
33NP	33DK	¾"	19 mm	½"	13 mm
44NP	44K	1"	25 mm	¾"	19 mm
44RC	44K	1"	25 mm	¾"	19 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 ¾"	33DRC, 33DLRC, 33DNP ¾"	44RC, 44LRC, 44NP 1"	5RC, 5LRC, 5NP 1"	7 1 ½"
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 l/m	Flow m³/h	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
38	2.3	0.12	0.12	—	—	—
67	4	0.41	0.42	0.23	—	—
83	5	0.57	0.62	0.40	—	—
100	6	—	—	0.62	—	—
117	7	—	—	0.83	0.30	—
133	8	—	—	—	0.40	—
150	9	—	—	—	0.50	—
167	10	—	—	—	0.61	—
200	12	—	—	—	0.85	0.13
233	14	—	—	—	1.15	0.18
267	16	—	—	—	1.50	0.25
367	22	—	—	—	—	0.54
473	28	—	—	—	—	0.97

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

The PRS-Dial is an excellent means of regulating outlet pressure at the valve regardless of incoming pressure fluctuations. The visible scale makes adjustment 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 ⅓ 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-D 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.

SPECIFICATIONS

Operating Range:
Pressure: Up to 100 psi (6.9 bar) *
Regulation: 15 to 100 psi (1.04 to 6.9 bar)
Flow: Refer to chart

Model: 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 7½ ft/sec (2.29 m/s).
- For flows below 10 gpm (37.8 l/m, 2.27 m³/h), 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.

*While 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).

NOTE: Valve and PRS-D module must be ordered separately.

U.S. Data — Valve Flow Ranges **

Model	gpm
PGA	
100-PGA	5 – 40
150-PGA	30 – 100
200 PGA	40 – 150
PEB	
100-PEB	5 – 50
150-PEB	20 – 150
200-PEB	75 – 200
PESB / PESB-R	
100-PESB/PESB-R	5 – 50
150-PESB/PESB-R	20 – 150
200-PESB/PESB-R	75 – 200
GB	
100-GB	5 – 50
125-GB	20 – 80
150-GB	20 – 120
200-GB	20 – 200
EFB-CP-R	
100-EFB-CP-R	5 – 50
125-EFB-CP-R	20 – 80
150-EFB-CP-R	20 – 120
200-EFB-CP-R	20 – 200
BPES	
300-BPES	60 – 300

Metric Data — Valve Flow Ranges **

Model	l/m	m^3/h
PGA		
100-PGA	19.2 – 15.1	1.14 – 9.08
150-PGA	113 – 378	6.81 – 22.70
200 PGA	151 – 568	9.08 – 34.05
PEB		
100-PEB	19.2 – 189	1.14 – 11.35
150-PEB	76 – 568	4.54 – 34.05
200-PEB	284 – 757	17.03 – 45.40
PESB / PESB-R		
100-PESB/PESB-R	19.2 – 189	1.14 – 11.35
150-PESB/PESB-R	76 – 568	4.54 – 34.05
200-PESB/PESB-R	284 – 757	17.03 – 45.40
GB		
100-GB	19.2 – 189	1.14 – 11.35
125-GB	76 – 302	4.54 – 18.16
150-GB	76 – 529	4.54 – 31.78
200-GB	76 – 757	4.54 – 45.40
EFB-CP-R		
100-EFB-CP-R	19.2 – 189	1.14 – 11.35
125-EFB-CP-R	76 – 302	4.54 – 18.16
150-EFB-CP-R	76 – 529	4.54 – 31.78
200-EFB-CP-R	76 – 757	4.54 – 45.40
BPES		
300-BPES	227 – 1136	13.62 – 68.10

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

150-PESB with PRS-D

300-BPES with PRS-D