

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 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)
- 100-PESB-R-WK: 1" (2.5 cm) (26/34) Conversion Kit
- 150-PESB-R-WK: 1 ½" (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

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)

Temperature: 150°F (66°C) maximum



● PESB-R

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 22 on how to specify.

PESB/PESB-R SERIES VALVES

U.S.					METRIC				
PRESSURE LOSS* (PSI)					PRESSURE LOSS* (BAR)				
Flow (gpm)	100-PESB / PESB-R 1"	150-PESB / PESB-R 1½"	200-PESB / PESB-R 2"		Flow (m³/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
0.25	0.8/1.6	—	—		0.06	1	0.06/0.11	—	—
0.5	1.0/3.0	—	—		0.3	5	0.09/0.13	—	—
1	1.3/1.8	—	—		0.6	10	0.10/0.15	—	—
5	1.7/2.9	—	—		1.2	20	0.12/0.20	—	—
10	1.8/2.9	—	—		3	50	0.15/0.19	—	—
20	2.9/2.6	3.9/3.5	—		6	100	0.32/0.32	0.26/0.22	—
30	5.6/5.8	3.6/3.1	—		9	150	0.68/0.69	0.24/0.16	—
40	10.0/10.2	3.5/2.3	—		12	200	—	0.26/0.16	0.33/0.25
50	15.6/16.0	3.6/2.1	4.8/3.7		15	250	—	0.33/0.24	0.32/0.24
75	—	5.4/4.3	4.5/3.3		18	300	—	0.42/0.33	0.32/0.25
100	—	9.6/7.5	5.2/4.7		21	350	—	0.57/0.45	0.34/0.30
125	—	14.6/11.9	8.2/8.6		24	400	—	0.74/0.59	0.41/0.38
150	—	21.2/17.0	11.8/12.6		27	450	—	0.92/0.75	0.51/0.53
175	—	—	15.5/14.8		30	500	—	1.14/0.91	0.64/0.67
200	—	—	19.5/18.9		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 ½ 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.