

### Quick-Coupling Valves

### Quick-Coupling Valves

#### Primary Application

Industrial-strength brass quick-coupling valves for water access.

#### Features

- Red brass body and bonnet for long life and rugged performance.
- Yellow thermoplastic cover for durability. Optional locking cover on models 33DLRC, 44LRC, and 5LRC (use 2049 key to unlock). Metal cover on model 7 only.
- One-piece body design (models 3RC, 5RC, and 7).
- Two-piece body design for easy servicing (models 33DRC, 44LRC, and 44RC).
- Strong corrosion-resistant stainless steel spring prevents leakage.

#### Operating Range

- Flow: 10 to 125 GPM (3 to 28 m<sup>3</sup>/h; 0,83 to 7,78 l/s)
- Pressure: 5 to 125 psi (0,4 to 8,6 Bars)

#### Dimensions

- 3RC Height: 4 1/4" (10,8 cm)
- 33DRC Height: 4 3/8" (11,1 cm)
- 33DLRC Height: 4 5/8" (11,8 cm)
- 44RC Height: 6" (15,2 cm)
- 44LRC Height: 6" (15,2 cm)
- 5RC Height: 5 1/2" (14 cm)
- 5LRC Height: 5 1/2" (14 cm)
- 7 Height: 5 3/4" (14,6 cm)

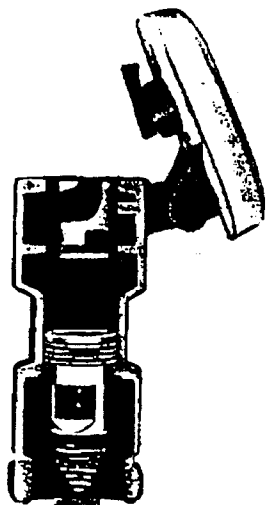
#### Models

- 3RC: 3/4" (20/27) Rubber Cover, 1-Piece Body
- 33DRC: 3/4" (20/27) Double Track Key Lug, Rubber Cover, 2-Piece Body
- 33DLRC: 3/4" (20/27) Double Track Key Lug, Locking Rubber Cover, 2-Piece Body
- 44RC: 1" (26/34) Rubber Cover, 2-Piece Body
- 44LRC: 1" (26/34) Locking Rubber Cover, 2-Piece Body
- 5RC: 1" (26/34) Rubber Cover, 1-Piece Body
- 5LRC: 1" (26/34) Locking Rubber Cover, 1-Piece Body
- 7: 1 1/2" (40/49) Metal Cover, 1-Piece Body
- 5RC-BSP: 1" (26/34) Rubber Cover, 1-Piece Body, BSP threaded
- 5LRC-BSP: 1" (26/34) Locking Rubber Cover, 1-Piece Body, BSP threaded

**Note:** For non-US applications it is necessary to specify NPT or BSP thread type.



7



Quick-Coupling Valve  
Cutaway



3 RC



33 DRC



33 DLRC



### Electric Remote-Control Valves

#### PEB Series

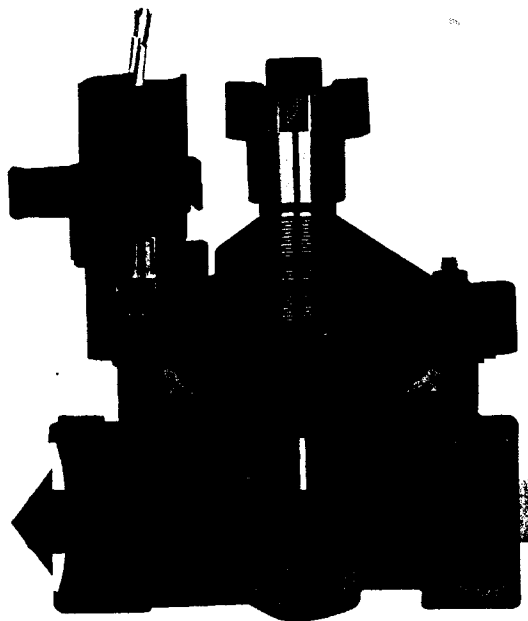
1", 1 1/2", 2" (26/34, 40/49, 50/60)

#### Primary Application

Industrial-strength glass-filled nylon globe valve for commercial systems.

#### Features

- Durable glass-filled nylon construction with nylon-reinforced rubber diaphragm for long life and heavy-duty performance at 200 psi (13,8 Bars).
- Slow closing to prevent water hammer and subsequent system damage.
- Low flow capability (0.25 GPM; 0,06 m³/h; 0,02 l/s) for a wide range of applications. For flows below 3 GPM (0,75 m³/h; 0,21 l/s) or any Xerigation® application, install RBY filter upstream.
- One-piece solenoid design with captured plunger and spring for easy servicing. Prevents loss of parts during field service.
- Solenoid low power requirement allows for longer wire runs without increased wire gauge size.
- Manual internal and external bleed. External bleed does not allow debris to go through the solenoid ports when system is flushed. Internal bleed manually operates the valve without allowing water into the valve box; allows pressure regulator to be adjusted without turning the valve on at the controller first.
- Stainless steel studs molded into the body. Bonnet can be attached and removed more easily and more often without damaging threads.
- Flow control handle adjusts water flows as needed.
- Accommodates optional, field-installed PRS-B pressure regulating module to ensure optimum sprinkler performance.
- Accepts latching solenoid for use with Rain Bird battery-operated controllers.
- Optional purple flow control handle for non-potable water applications (PEB-NP-HAN). **New**

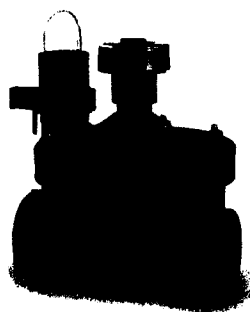


PEB Cutaway

100- PEB- PRS-B- NP-HAN

Model PEB	Optional Feature PRS-B	Optional Feature Non- potable Handle
Size 1" (26/34)		

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



150-PEB-NP-HAN

### Operating Range

- Pressure: 20 to 200 psi (1,4 to 13,8 Bars)
- Flow without PRS-B option: 0.25 to 200 GPM (0,06 to 45 m<sup>3</sup>/h; 0,02 to 12,60 l/s)
- Flow with PRS-B option: 20 to 200 GPM (5 to 45 m<sup>3</sup>/h; 1,39 to 12,60 l/s)
- Temperature: Up to 150° F (66° C)

### Electrical Specifications

- 24 VAC 50/60 cycle solenoid power requirement: 0.41 A (9.9 VA) inrush current; 0.23 A (5.5 VA) holding current
- Solenoid coil resistance: 24 Ohms

### Dimensions

- 100-PEB: Height: 6 1/2" (16,5 cm)  
Length: 4" (10,2 cm) Width: 4" (10,2 cm)
- 150-PEB: Height: 8" (20,3 cm)  
Length: 6" (15,2 cm) Width: 6" (15,2 cm)
- 200-PEB: Height: 8" (20,3 cm)  
Length: 6" (15,2 cm) Width: 6" (15,2 cm)

**Note:** The PRS-B option adds 2" to the valve height.

### Models

- 100-PEB: 1" (26/34)
- 150-PEB: 1 1/2" (40/49)
- 200-PEB: 2" (50/60)

All models available with BSP threads

**Note:** Valve and PRS-B module must be ordered separately.

**Note:** Purple flow control handle must be ordered separately.

1: Rain Bird recommends flow rates in the supply line not to exceed 7.5 feet/second (2,3 m/s) in order to reduce the effects of water hammer.

2: For flows below 5 GPM (1 m<sup>3</sup>/h; 32 l/s), Rain Bird recommends use of upstream filtration to prevent debris from collecting below the diaphragm.

3: For flows below 10 GPM (2 m<sup>3</sup>/h; 63 l/s) Rain Bird recommends the flow control stem be turned down two full turns from the fully open position.

### PEB Series Valve Pressure Loss

Pressure Loss (psi)

Flow GPM	100-PEB 1"	150-PEB 1 1/2"	200-PEB 2"
0.25	3.0		
0.5	3.0		
1	3.0		
5	2.0		
10	1.5		
		1.5	
		1.5	
		1.8	
			1.2

Loss values are with flow control fully open.

**Note:** PRS-B module is recommended for use only at flow rates in the shaded area.

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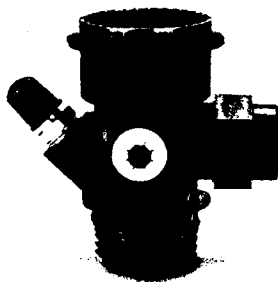
Pressure Loss (Bars)

Flow m <sup>3</sup> /h	Flow l/s	100-PEB 1"	150-PEB 1 1/2"	200-PEB 2"
0,06	0,02	0,21	-	-
1	0,28	0,15	-	-
2	0,56	0,10	-	-
3	0,83	0,12	-	-
4	1,11	0,16	-	-
5	1,39	0,21	0,10	-
6	1,67	0,27	0,12	-
7	1,94	0,35	0,14	-
8	2,22	0,45	0,15	-
9	2,50	0,59	0,16	-
10	2,78	0,77	0,17	-
12	3,33	-	0,18	0,09
14	3,89	-	0,19	0,12
16	4,44	-	0,23	0,15
22	6,11	-	0,46	0,26
28	7,77	-	0,75	0,44
34	9,44	-	1,12	0,66
40	11,10	-	-	0,93
45	12,60	-	-	1,27



### Pressure Regulating Module

#### PRS-B



PRS-B

#### Primary Application

Industrial-strength pressure regulator for high pressure applications requiring consistent pressure regulation with inlet pressure changes.

#### Features

- Corrosion-resistant glass-filled nylon for rugged performance.
- Reduces inlet pressure fluctuations. Regulates and maintains constant outlet pressure between 15 and 100 psi (1,0 to 6,9 Bars)  $\pm 5$  psi (0,4 Bars) for use in a wide variety of applications.
- Operates electrically or manually. Pressure can be adjusted without turning the valve on at the controller first.
- Schrader valve connects to Pressure Hose Gauge (PHG) for precise pressure reading. Side knob easily sets desired pressure. PHG must be ordered separately.
- Easy to retrofit in the field. Simply unscrew the solenoid and adapter, thread in the PRS-B, then thread in the solenoid.
- For use with Rain Bird PGA, PEB, PESB, GB, EFB-CB, BPE, and BPES valves.



150-PGA-PRS-B



150-PEB-PRS-B



150-EFB-CP-PRS-B



150-GB-PRS-B



300-BPE-PRS-B

### Operating Range

- Pressure: Up to 200 psi (13,8 Bars)
- Pressure Regulation: 15 to 100 psi (1,0 to 6,9 Bars)
- Flow: 5 to 200 GPM (2,3 to 45,2 m<sup>3</sup>/h; 0,63 to 12,62 l/s) for brass valves
- Flow: 20 to 200 GPM (4,5 to 45,4 m<sup>3</sup>/h; 1,26 to 12,62 l/s) for plastic valves

### Application Information

- Rain Bird recommends flow rates in the supply line not to exceed 7.5 ft/sec (2,3 m/s) to reduce the effects of water hammer.
- For stable pressure regulation, use of the PRS-B module is not recommended at flows below the minimums shown on the adjacent chart.
- Use of the PRS-B module requires inlet pressure to be a minimum of 15 psi (1,0 Bar) higher than desired outlet pressure. For example, inlet pressure of 100 psi (6,9 Bars) requires outlet pressure of 85 psi (5,9 Bars) or less.
- When pressures exceed 100 psi (6,9 Bars), a pressure regulating master valve or in-line pressure regulator is recommended.
- In areas with very high pressures or uneven terrain, Rain Bird recommends using rotors with SAM check valves, and spray heads with SAM check valves and/or Pressure Regulating Stems (PRS).

**Note:** Pressure regulation using the PRS-B pressure regulator is not instantaneous. The PRS-B pressure regulator begins regulating ONLY AFTER the lateral line fills with water. It is also normal for downstream pressure to exceed the set regulating pressure momentarily on each activation of the valve and then settle to the regulated pressure  $\pm$  5 psi (0,4 Bars).

### Model

- PRS-B

- 1: Rain Bird recommends flow rates in the supply line not to exceed 5 to 7.5 ft./sec. (2,3 m/s) in order to reduce the effects of water hammer.
- 2: For flows below 5 GPM (1,1 m<sup>3</sup>/h; 0,31 l/s) Rain Bird recommends use of upstream filtration to prevent debris from collecting below the diaphragm.
- 3: For flows below 10 GPM (2,2 m<sup>3</sup>/h; 0,63 l/s) Rain Bird recommends the flow control stem be turned down two full turns from the fully open position.

### PRS-B Valve Flow Range

METRIC

Model	Flow GPM	Model	Flow m <sup>3</sup> /h	Flow l/s
100-PGA	5-40	100-PGA	1,14-9,08	0,31-2,52
150-PGA	30-100	150-PGA	6,81-22,71	1,89-6,31
200-PGA	40-150	200-PGA	9,08-34,07	2,52-9,47
100-PEB	20-50	100-PEB	4,54-11,36	1,26-3,15
150-PEB	50-150	150-PEB	11,36-34,07	3,15-9,46
200-PEB	75-200	200-PEB	17,03-45,42	4,73-12,62
100-PESB	20-50	100-PESB	4,54-11,36	1,26-3,15
150-PESB	50-150	150-PESB	11,36-34,07	3,15-9,46
200-PESB	75-200	200-PESB	17,03-45,42	4,73-12,62
100-GB	5-50	100-GB	1,14-11,36	0,32-3,15
125-GB	20-80	125-GB	4,54-18,17	1,26-5,05
150-GB	20-140	150-GB	4,54-31,79	1,26-8,83
200-GB	20-200	200-GB	4,54-45,42	1,26-12,62
100-EFB-CP	5-50	100-EFB-CP	1,14-11,36	0,32-3,15
125-EFB-CP	20-80	125-EFB-CP	4,54-18,17	1,26-5,05
150-EFB-CP	20-140	150-EFB-CP	4,54-31,79	1,26-8,83
200-EFB-CP	20-200	200-EFB-CP	4,54-45,42	1,26-12,62
300-BPE	60-300	300-BPE	13,6-68,10	3,78-18,90
300-BPES	60-300	300-BPES	13,6-68,10	3,78-18,90

