

## PEB SERIES

Electric Valves - Rain Bird's most durable plastic valve.

- Body constructed of durable glass-filled nylon for long life and reliable performance. Stainless steel studs molded into the body resist thread damage
- Slow closing to prevent water hammer and subsequent system damage
- Fabric-reinforced diaphragm for longer life

### FEATURES

#### • Ease of Service

- One-piece solenoid with captured plunger and spring for easy servicing. Prevents loss of parts during field service
- Flow control handle adjusts water flow as needed
- Manual internal bleed with 1/4-turn of the solenoid operates the valve without allowing water into the valve box. Allows pressure regulator adjustment without turning on the valve at the controller
- Manual external bleed permits flushing debris from the system. Recommended for system start up and after repairs.
- Solenoid with convenient handle

#### • Versatility

- Globe configuration
- Wide operating pressure range. Low flow operating capability for a wide range of applications
- Accommodates field-installed PRS-Dial pressure regulating modules adjustable from 1.0 to 6.9 bar (to be ordered separately)
- Accepts Rain Bird latching solenoids for use with Rain Bird battery-powered controllers.

Important: do not exceed 10 bar operating pressure when using the latching solenoid

- Compatible with Rain Bird MDC Decoder System

#### • Reliability

- Self-flushing nylon screen on PEB Series

- Scrubber device on PESB models cleans stainless steel screen every time the valve opens and closes

### SPECIFICATIONS

Flow: 0,06 to 45.0 m<sup>3</sup>/h  
 Pressure: 1.4 to 13.8 bar (23° C)  
 Temperature: up to 66° C

### ELECTRICAL SPECIFICATIONS

Solenoid: 24 VAC - 50 Hz  
 Inrush current: 0.41 A (9.9 VA)  
 Holding current: 0.23 A (5.5 VA)

### DIMENSIONS

#### 100-PEB and 100-PESB

Height: 16.5 cm  
 Length: 10.2 cm  
 Width: 10.2 cm

#### 150-PEB and 150-PESB

Height: 20.3 cm  
 Length: 15.2 cm  
 Width: 15.2 cm

#### 200-PEB and 200-PESB

Height: 20.3 cm  
 Length: 15.2 cm  
 Width: 15.2 cm

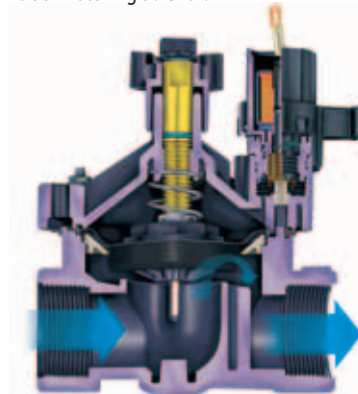
*Note: the PRS-Dial option adds 5 cm to the valve Height*

### MODELS

- 100-PEB: 1" (26/34) BSP female threaded inlet and outlet
- 100-PESB: 1" (26/34) with self-cleaning scrubber
- 150-PEB: 1.5" (40/49) BSP female threaded inlet and outlet
- 150-PESB: 1.5" (40/49) with self-cleaning scrubber
- 200-PEB: 2" (50/60) BSP female threaded inlet and outlet
- 200-PESB: 2" (50/60) with self-cleaning scrubber

### ACCESSORIES

PRS-Dial: pressure regulating module with regulating range from 1.0 to 6.9 bar  
 TBOS™ Latching Solenoid



### PERFORMANCE: Valve pressure loss

m <sup>3</sup> /h	100-PEB 100-PESB	150-PEB 150-PESB	200-PEB 200-PESB
1,2	0,12	-	-
3	0,15	-	-
6	0,32	0,26	-
9	0,68	0,24	-
12	-	0,26	-
15	-	0,33	-
18	-	0,42	0,32
21	-	0,57	0,34
24	-	0,74	0,41
27	-	0,92	0,51
30	-	1,14	0,64
33	-	1,38	0,77
36	-	-	0,90
39	-	-	1,04
42	-	-	1,18
45	-	-	1,34

*Pressure loss values are with flow control fully open.*

### How to specify

#### 100 - PESB

**Model**  
 PESB:  
 scrubber model  
 with self-cleaning  
 scrubber

**Size**  
 1" (26/34)

## PGA SERIES

Plastic Electric Valves - Built to last... and last!

- Plastic globe/angle valve for residential/light commercial applications. The PGA Series offers flexibility in design and installation at an affordable price
- Fabric-reinforced diaphragm for longer life
- Long-lasting and reliable operation: Heavyduty PVC construction.

### FEATURES

#### • Ease of Service

- Prevents loss of parts during field service thanks to one-piece solenoid design with captured plunger.
- Non-rising flow control handle adjusts water flow as needed
- Manual internal bleed with 1/4-turn of the solenoid operates the valve without allowing water into the valve box. Allows pressure regulator adjustment without turning on the valve at the controller
- Solenoid with convenient handle

#### • Versatility

- Accommodates field-installed PRS-Dial pressure regulating modules adjustable from 1.0 to 6.9 bar to be ordered separately)
- Also available in 9V solenoid configuration: 100-PGA-9V, 150-PGA-9V, 200-PGA-9V
- Compatible with Rain Bird Decoder Systems

#### • Reliability

- Slow closing to prevent water hammer and subsequent system damage
- Double filtered pilot flow prevents clogging solenoid ports

### SPECIFICATIONS

Flow: 1,14 to 34,05 m<sup>3</sup>/h  
 Pressure: 1.0 to 10.4 bar (23° C)  
 Temperature: up to 43°C

*Note: the PRS-Dial option adds 5 cm to the valve height*

### PERFORMANCE: Valve Pressure Loss (bar)

100-PGA		
m <sup>3</sup> /h	Globe	Angle
1,2	0,38	0,38
3	0,41	0,41
6	0,43	0,43
9	0,48	0,48

### ELECTRICAL SPECIFICATIONS

Solenoid: 24 VAC - 50 Hz  
 Inrush current: 0.41 A (9.9 VA)  
 Holding current: 0.23 A (5.5 VA)

### DIMENSIONS

#### 100-PGA

Height: 18.4 cm  
 Length: 14.0 cm  
 Width: 8.3 cm

#### 150-PGA

Height: 20.3 cm  
 Length: 17.2 cm  
 Width: 8.9 cm

#### 200-PGA

Height: 25.4 cm  
 Length: 19.7 cm  
 Width: 12.7 cm

*Note: the PRS-Dial option adds 5 cm to the valve height*

### MODELS

- 100-PGA: 1" (26/34) BSP female threaded inlet and outlet
- 100-PGA-9V: 1" (26/34) BSP female threaded inlet and outlet, latching solenoid
- 150-PGA: 1,5" (40/49) BSP female threaded inlet and outlet
- 150-PGA-9V: 1,5" (40/49) BSP female threaded inlet and outlet, latching solenoid
- 200-PGA: 2" (50/60) BSP female threaded inlet and outlet
- 200-PGA-9V: 2" (50/60) BSP female threaded inlet and outlet, latching solenoid

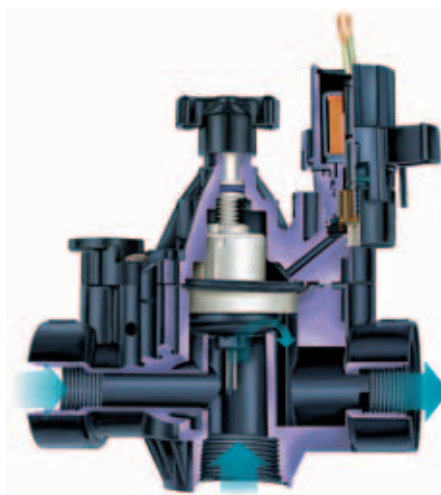
### ACCESSORIES

PRS-Dial: pressure regulating module with regulating range from 1.0 to 6.9 bar

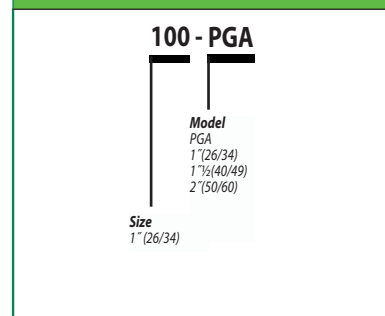
### TEMPERATURE RATING

Water temperature	Continuous pressure
23°C	10.4 bars
27°C	9.1 bars
32°C	7.7 bars
38°C	6.4 bars
43°C	5.2 bars

150-PGA		
m <sup>3</sup> /h	Globe	Angle
6	0,10	0,07
9	0,22	0,14
12	0,38	0,23
15	0,61	0,36
18	0,86	0,51
21	1,16	0,70



### How to specify



200-PGA		
m <sup>3</sup> /h	Globe	Angle
9	0,08	0,07
12	0,12	0,07
15	0,17	0,10
18	0,24	0,13
21	0,33	0,18
24	0,43	0,23
27	0,54	0,30
30	0,66	0,36
34	0,83	0,45

*Pressure loss values are with flow control fully open.*