



Chiricahua at Desert Mountain

Valves and Valve Boxes

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 pre-assembled, reclaimed water applications to an integration control (IC) configuration, Rain Bird valves are designed to meet the needs of any course.

GSV Series Valves



Rain Bird® GSV Series Valves deliver reliable performance you can trust year after year in a full line of plastic and brass options. With precision pressure regulation pre-installed, the GSV Series provides an innovative solution that's strong enough to weather any storm.

FEATURES AND BENEFITS

Powerful Surge Resistance

Withstand surge events up to 25kV with the GBS25 Solenoid, or up to 20kV with ICM.

Adjustable Pressure Regulation

Pre-installed PRS-DIAL regulates and maintains constant outlet pressure between 15 and 100 psi (1.04 to 6.90 bar) within ±3 psi (±0.21 bar).

- When inlet pressure exceeds 100 psi (6.90 bar), a pressure-regulating master valve or inline pressure regulator is recommended
- Improved pressure spike reduction capabilities minimize water hammer
- Waterproof dial cartridge eliminates fogging and binding
- Consistent sprinkler performance for block applications
- Ergonomic design with snap-tight cover on dial cartridge prevents vandalism

Engineered for Reclaimed Water

Chlorine-resistant diaphragm delivers increased protection against harsh chemicals. Optional purple flow control handle and cover allow for easy indication of non-potable water use.

Uncompromising Durability

Plastic models feature a glass-filled polypropylene body that delivers heavy-duty performance up to 200 psi (13.80 bar) pressure.

- GSV211 (BSP only) model includes a red brass body and bonnet for longer life and more rugged performance up to 200 psi (13.80 bar) pressure
- Scrubber mechanism (plastic models only) encapsulates stainless steel screen to dislodge grit and plant material
- External bleed protects solenoid ports from debris when system is flushed

SPECIFICATIONS

Models:

- GSV100 / GSVIC100:** Plastic 1" (2.5 cm) (26/34), NPT
- GSV101 / GSVIC101:** Plastic 1" (2.5 cm) (26/34), BSP
- GSV150 / GSVIC150:** Plastic 1.5" (3.8 cm) (40/49), NPT
- GSV151 / GSVIC151:** Plastic 1.5" (3.8 cm) (40/49), BSP
- GSV200 / GSVIC200:** Plastic 2" (5.1 cm) (50/60), NPT
- GSV201 / GSVIC201:** Plastic 2" (5.1 cm) (50/60), BSP
- GSV211 / GSVIC211:** Brass 2" (5.1 cm) (50/60), BSP

Flow:

5 to 200 gpm (19.2 to 757 l/m); (1.1 to 45.4 m³/h)

Pressure:

Up to 200 psi (13.80 bar)*

Electrical Specifications:

GBS25 Solenoid:

Power: 24 VAC 50/60 Hz (cycles/second)

Inrush Current: 0.41 A (9.84 VA)

Holding Current: 0.20 A (4.80 VA) at 60 Hz, 0.23 A (5.40 VA) at 50 Hz

ICM:

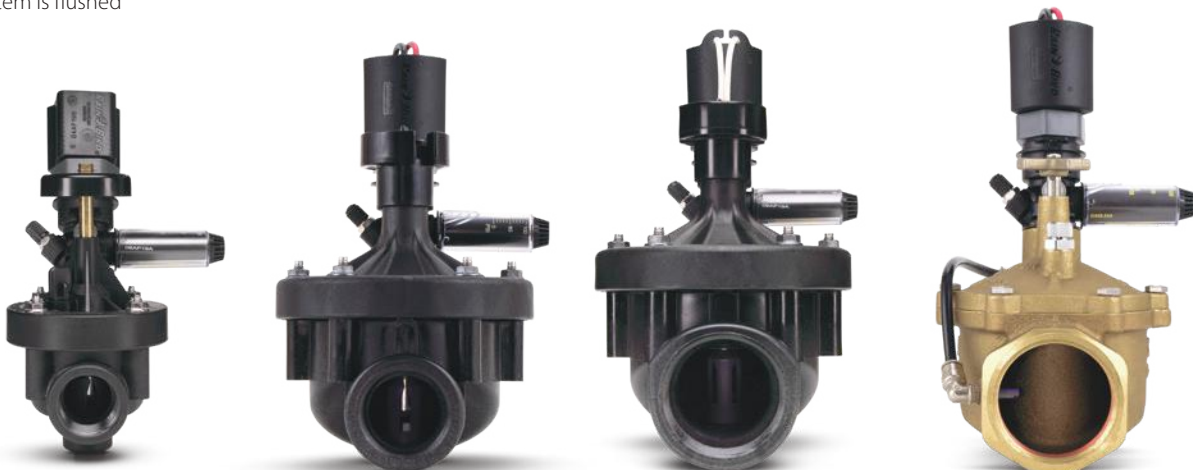
Electrical Output: 28.5 VAC, 1.25 AMP Per Wire Path

HOW TO SPECIFY

| MODEL | SIZE |
|-------|----------------------|
| GSV | 100 = 1" NPT |
| GSV | 101 = 1" BSP |
| GSVIC | 150 = 1 1/2" NPT |
| GSVIC | 151 = 1 1/2" BSP |
| GSVIC | 200 = 2" NPT |
| GSVIC | 201 = 2" BSP |
| GSVIC | 211 = 2" BSP (brass) |



Purple flow control handle and cover included to designate non-potable water.



*While the PRS-Dial unit can withstand pressures up to 200 psi (13.80 bar), accurate pressure regulation can be maintained only up to 100 psi (6.90 bar).

DIMENSIONS

| MODEL | SIZE | HEIGHT | LENGTH | WIDTH |
|---------------------------------------|------|----------------|----------------|----------------|
| GSV100 / GSV101 / GSVIC100 / GSVIC101 | 1" | 8.3" (21.1 cm) | 5.6" (14.2 cm) | 5.2" (13.2 cm) |
| GSV150 / GSVIC150 / GSV151 / GSVIC151 | 1.5" | 9.5" (24.1 cm) | 6.1" (15.5 cm) | 6.2" (15.8 cm) |
| GSV200 / GSV201 / GSVIC200 / GSVIC201 | 2" | 9.9" (25.2 cm) | 6.1" (15.5 cm) | 6.2" (15.8 cm) |
| GSV211 (Brass) / GSVIC211 (Brass) | 2" | 9.4" (23.9 cm) | 6.9" (17.5 cm) | 5.9" (14.9 cm) |

U.S. Data — Pressure Loss (psi)

| Flow gpm | GSV100 GSV101 GSVIC100 GSVIC101 | GSV150 GSV151 GSVIC150 GSVIC151 | GSV200 GSV201 GSVIC200 GSVIC201 | Flow gpm | GSV211 GSVIC211 |
|-------------|--|--|--|-------------|--------------------|
| | 1" | 1½" | 2" | | 2" |
| 5 | 2.9 | — | — | 5 | — |
| 10 | 2.9 | — | — | 10 | — |
| 15 | — | — | — | 15 | — |
| 20 | 2.6 | 3.5 | — | 20 | 0.5 |
| 30 | 5.8 | 3.1 | — | 30 | 0.6 |
| 40 | 10.2 | 2.3 | — | 40 | 0.8 |
| 50 | 16.0 | 2.1 | — | 50 | 1.1 |
| 60 | — | — | — | 60 | 1.8 |
| 75 | — | 4.3 | 3.3 | 80 | 2.4 |
| 100 | — | 7.5 | 4.7 | 100 | 3.8 |
| 125 | — | 11.9 | 8.6 | 120 | 5.9 |
| 150 | — | 17.0 | 12.6 | 140 | 7.8 |
| 175 | — | — | 14.8 | 160 | 10.0 |
| 200 | — | — | 18.9 | 180 | 12.5 |
| | | | | 200 | 15.8 |

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

Metric Data — Pressure Loss (bar)

| Flow l/m | m³/h | GSV100 GSV101 GSVIC100 GSVIC101 | GSV150 GSV151 GSVIC150 GSVIC151 | GSV200 GSV201 GSVIC200 GSVIC201 | Flow l/m | m³/h | GSV211 GSVIC211 |
|-------------|------|--|--|--|-------------|------|--------------------|
| | | 1" | 1.5" | 2" | | | 2" |
| 20 | 1.2 | 0.20 | — | — | 19 | 1 | — |
| 50 | 3 | 0.19 | — | — | 50 | 3 | — |
| 100 | 6 | 0.32 | 0.22 | — | 100 | 6 | 0.04 |
| 150 | 9 | 0.69 | 0.16 | — | 150 | 9 | 0.05 |
| 200 | 12 | — | 0.16 | — | 200 | 12 | 0.09 |
| 250 | 15 | — | 0.24 | — | 250 | 15 | 0.14 |
| 300 | 18 | — | 0.33 | 0.25 | 300 | 18 | 0.16 |
| 350 | 21 | — | 0.45 | 0.30 | 350 | 21 | 0.23 |
| 400 | 24 | — | 0.59 | 0.38 | 400 | 24 | 0.30 |
| 450 | 27 | — | 0.75 | 0.53 | 450 | 27 | 0.40 |
| 500 | 30 | — | 0.91 | 0.67 | 500 | 30 | 0.49 |
| 550 | 33 | — | 1.10 | 0.82 | 550 | 33 | 0.58 |
| 600 | 36 | — | — | 0.92 | 600 | 36 | 0.68 |
| 650 | 39 | — | — | 1.00 | 650 | 39 | 0.79 |
| 700 | 42 | — | — | 1.13 | 700 | 42 | 0.92 |
| 757 | 45 | — | — | 1.30 | 757 | 45 | 1.09 |

INTEGRATED CONTROL SYSTEM TECHNOLOGY

See the features and benefits of IC Rotors and Valves on page 28.



PRS-DIAL

Maintain the constant pressure you need between 15 and 100 psi (1.04 to 6.90 bar), regardless of incoming pressure fluctuations with the PRS-DIAL. The regulator fits all Rain Bird PGA, PEB, PESIC, and GB Series Valves.

(See pages 58–59)



PRS-Dial

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 $\frac{1}{3}$ 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-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 recommended.
- 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 $7\frac{1}{2}$ 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 |

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

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 |

ICM Valve Kit

Rain Bird® ICM Valve Kit includes a ready-to-install ICM (Integrated Control Module) and a Rain Bird Valve Adapter with necessary o-rings and filter. This kit is designed to convert Rain Bird PEB, PESB, BPES, EFB-CP Series Electric Remote Control Valves into Integrated Control (IC) Valves.

See pages 26-31 for more information on the IC System™.



PESB with ICM Valve Kit

VB Series Valve Boxes



FEATURES

- Commercial-grade boxes.
- Multiple sizes and shapes designed with corrugated sides and wide flange bases for maximum durability, compression strength and stability.
- Smart lid design with no holes to keep out pests and beveled edges to minimize damage potential from turf equipment with an easy-access shovel slot for lid removal.
- Interlocking stacking capabilities, extension models and pipe hole knockouts support deeper and more flexible installations.
- All black bodies and lids are made from 100% recycled materials, making them earth-friendly and LEED compliant.
- Locking systems with vandal-resistant hex or penta bolt, washers and clips.
- **Warranty:** 5-year trade warranty

Locking Systems:

- VB-LOCK-H:** Hex Head $\frac{3}{8}$ " x $2\frac{1}{4}$ " (1.0 x 5.7 cm) bolt, washer and clip
- VB-LOCK-P:** Penta Head $\frac{3}{8}$ " x $2\frac{1}{4}$ " (1.0 x 5.7 cm) bolt, washer and clip

MODELS

| Item ID | Lid Color | Model # |
|------------------|-----------|------------|
| 7" ROUND | | |
| G11480 | Green | GVB7RNDGR |
| G11481 | Black | GVB7RNDBLK |
| G11482 | Purple | GVB7RNDPUR |
| G11483 | Tan | GVB7RNDTAN |
| 10" ROUND | | |
| G11450 | Green | GVB10RNDGR |
| G11451 | Black | GVB10RNDBL |
| G11452 | Purple | GVB10RNDPU |
| G11453 | Tan | GVB10RNDTA |
| STANDARD | | |
| G11400 | Green | GVBSTDGR |
| G11401 | Black | GVBSTDBLK |
| G11402 | Purple | GVBSTDPUrp |
| G11403 | Tan | GVBSTD TAN |
| JUMBO | | |
| G11430 | Green | GVBJMBGR |
| G11431 | Black | GVBJMBBLK |
| G11432 | Purple | GVBJMBPUrp |
| G11433 | Tan | GVBJMB TAN |



| Size | 7" Round | 10" Round | Standard | Jumbo |
|---------------------|---------------------------------------|---------------------------------------|---|---------------------------------------|
| Bottom Diameter | 9.9" (25.1 cm) | 13.7" (34.9 cm) | — | — |
| Length x Width | — | — | 21.8" (55.4 cm) x 16.6" (42.2 cm) | 26.3" (66.8 cm) x 19.8" (50.3 cm) |
| Height | 9.0" (22.9 cm) | 10.0" (25.4 cm) | 12.0" (30.5 cm) | 12.1" (30.7 cm) |
| Number of Knockouts | 4 | 4 | 13 | 2 |
| Pipe Sizing | Knock-outs sized with 2" (50 mm) pipe | Knock-outs sized with 2" (50 mm) pipe | 2 knock-outs sized for 3" (80 mm) pipe 11 knock-outs sized for 2" (50 mm) pipe | Knock-outs sized with 3" (80 mm) pipe |

Quick Coupling Valves and Valve Keys

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 | |

VALVES AND VALVE BOXES

*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.