

TECH SPECS

PGA Series Valves

Versatility at an affordable price.

Whether the job calls for a globe or angle valve, PGA Series valves are the right choice. Loaded with features, these heavy-duty PVC valves are economical, easy to install and built to withstand constant 150 psi (10,35 bar) pressure and 2 to 150 gpm (0,45 to 34,05 m³/h; 7,8 to 568 l/m) flows.

The PGA Series from Rain Bird – built to last... and last!

Features

- Globe and angle configuration for flexibility in design and installation.
- · Rugged PVC construction
- Filtered pilot flow to resist debris and clogging of solenoid ports.
- Slow closing to prevent water hammer and subsequent system damage.
- Manual internal bleed operates the valve without allowing water into the valve box.
- One-piece solenoid design with captured plunger and spring for easy servicing.
 Prevents loss of parts during field service.
- Non-rising flow control handle adjusts water flows as needed.
- · Normally closed, forward flow design.

Options (order separately)

- Accommodates optional, field installed PRS-D pressure regulating module.
- Optional purple flow control handle for easy identification of non-potable water system.
 - PGA-NP-HAN (1" and 1½")
 - PGA-NP-HAN2 (2")
- Accepts latching solenoid for use with Rain Bird battery-operated controllers up to 150 psi (10,35 bar).

Operating Range

- Pressure: 15 to 150 psi (1,04 to 10,35 bar)
- Flow: 2 –150 gpm (0,45 to 34,05 m³/h; 7,8 to 568 l/m)
- Flow with PRS-D: 5 –150 gpm (1,14 to 34,05 m³/h; 19,2 to 568 l/m)
- Water Temperature: up to 110° F (43° C)
- Ambient Temperature: up to 125° F (52° C)

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: 30-39 Ohms

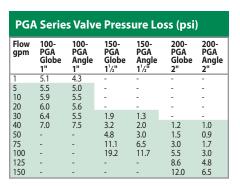
Models

•	100PGA	1″	(26/34)
•	150PGA	11½"	(40/49)
•	200PGA	2"	(50/60)
R	SP threads availa	hle·snecify wh	en orderina

Dimensions

Size	Height	Length	Width
100PGA	7¼" (18,4 cm)	5½" (14,0 cm)	3¼" (8,3 cm)
150PGA	8" (20,3 cm)	6¾" (17,2 cm)	3½" (8,9 cm)
200PGA	10" (25,4 cm)	7¾" (19,7 cm)	5" (12,7 cm)

Note: The PRS-D option adds 2" (5,1 cm) to valve height.



Flow m³/h	Flow I/m	100- PGA Globe 2,5cm	100- PGA Angle 2,5cm	150- PGA Globe 3,8cm	150- PGA Angle 3,8cm	200- PGA Globe 5,1cm	200- PGA Angl 5,1cr
0,23	3,8	0,35	0,30	-	-	-	-
0,6	10	0,36	0,32	-	-	-	-
1,2	20	0,38	0,35	-	-	-	-
3	50	0,41	0,38	-	-	-	-
6	100	0,43	0,38	0,10	0,07	-	-
9	150	0,48	0,51	0,22	0,14	0,08	0,07
12	200	-	-	0,38	0,23	0,12	0,07
15	250	-	-	0,61	0,36	0,17	0,10
18	300	-	-	0,86	0,51	0,24	0,13
21	350	-	-	1,16	0,70	0,33	0,18
24	400	-	-	-	-	0,43	0,23
27	450	-	-	-	-	0,54	0.30
30	500	-	-	-	-	0,66	0,36
34	568	-	-	-	-	0,83	0,45

Notes

1) Loss values are with flow control fully open

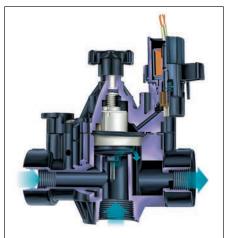
2) PRS-D module recommended for all flow ranges.

. Recommendation:

1) Rain Bird recommends flow rates in the supply line not to exceed 7.5 ft./sec (2.29 m/s) in order to reduce the effects of water hammer.

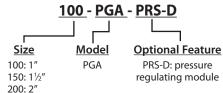
2) For flows below 5 gpm (1,14 m³h; 19,21 l/m), Rain Bird recommends use of upstream filtration to prevent debris from collecting below the diaphragm. 3) For flows below 10 gpm (2,27 m³h; 37,8 l/m) Rain Bird recommends the flow control stem be turned down two full turns from the fully open position.





PGA Series Temperature Rating					
Water Temp.	Continuous Pressure				
73° F (23° C)	150 psi (10,40 bar)				
80° F (27° C)	132 psi (9,10 bar)				
90° F (32° C)	112 psi (7,70 bar)				
100° F (38° C)	93 psi (6,40 bar)				
110° F (43° C)	75 psi (5,20 bar)				

How to Specify/Order



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



Specifications

The electric remote control valve shall be a normally closed 24 VAC 50/60 Hz (cycles/sec) solenoid actuated globe/angle pattern design. The valve pressure rating shall not be less than 150 psi (10,35 bar). The valve shall have the following characteristics (circle one):

Flow rate:	gpm	m³/h	l/m	
Pressure loss not to e	xceed:		psi	baı

The valve body and bonnet shall be constructed of high-impact, weather-resistant PVC with stainless steel screws.

The valve shall have manual open/close control (internal bleed) for manual opening and closing of valve without electrically energizing the solenoid. The valve's internal bleed shall prevent flooding of the valve box.

The valve shall house a fully-encapsulated, one-piece solenoid. The solenoid shall have a captured plunger with a removable retainer for easy servicing, and a leverage handle for easy turning. This 24 VAC 50/60 Hz solenoid shall open with 19.6 VAC minimum at 150 psi (10,35 bar). At 24 VAC, average inrush current shall not exceed 0.41 amps. Average holding current shall not exceed 0.28 amps.

The valve shall have a flow control stem for accurate manual regulation and/or shut off of outlet flow. The valve must open or close in less than 1 minute at 150 psi (10,35 bar), and less than 30 seconds at 20 psi (1,38 bar).

The valve construction shall provide for all internal parts to be removable from the top of the valve without disturbing the valve installation. The body shall have a removable O-ringed plug for installation in either globe or angle configuration.

Optional Feature Specification

PRS-D Pressure Regulating Module 100PGA-PRS-D, 150PGA-PRS-D, 200PGA-PRS-D

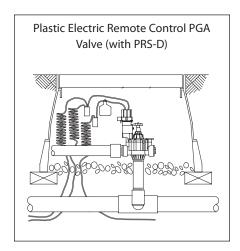
When so indicated on the design, the electric remote control valve shall have a pressure regulating module (PRS-D) capable of regulating outlet pressure between 15 and 100 psi (±3 psi) (1,04 and 6,90 bar (±0,21 bar)).

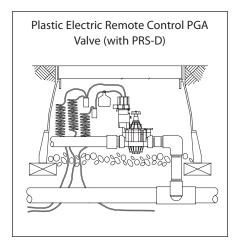
The PRS-D module shall have an adjusting knob for setting pressure and Schrader valve connection for monitoring pressure. The pressure shall be adjustable from the PRS-D when the valve is internally manually bled or electrically activated.

Non-Potable Flow Control Handle PGA-NP-HAN1 - Fits 1" and 11/2" PGA-NP-HAN2 - Fits 2"

When so indicated on the design, the valve shall have a purple flow control handle to indicate to the user that non-potable water is being used. There shall be no difference between the black and purple handles except for the color.

The valve shall be as manufactured by Rain Bird Corporation, Glendora, California.





Rain Bird Corporation

6991 E. Southpoint Road, Tucson, AZ, 85706, U.S.A. Phone: (520) 741-6100 Fax: (520) 741-6522

Rain Bird Corporation

970 W. Sierra Madre Avenue, Azusa, CA, 91702, U.S.A. Phone: (626) 812-3400 Fax: (626) 812-3411

Rain Bird International, Inc.

P.O. Box 37, Glendora, CA, 91740-0037, U.S.A. Phone: (626) 963-9311 Fax: (626) 852-7343

Technical Service and Support

(800) RAINBIRD (U.S. and Canada only)

Specification Hotline

(800) 458-3005 (U.S. and Canada only)

www.rainbird.com

The Intelligent Use of Water

— Visit www.rainbird.com to learn about our efforts