



PRS-D Pressure Regulator

Installation and Operation Guide

Guía de Uso del PRS-D

Guia de Operação do PRS-D

Istruzioni PRS-D

PRS-D Bedienungsanleitung

Manuel d'utilisation du PRS-D

PRS-D Sproeier bedieningshandleiding

T1

	gpm	m³/h	l/s
100-PGA	5-40	1,14-9,08	0,32-2,52
150-PGA	30-100	6,81-22,70	1,89-6,30
200-PGA	40-150	9,08-34,05	2,52-9,45
100-PEB/PESB	5-50	1,14-11,35	0,32-3,15
150-PEB/PESB	20-150	11,36-34,05	3,15-9,45
200-PEB/PESB	50-200	17,03-45,40	4,73-12,60
100-GB	5-50	1,14-11,35	0,32-3,15
125-GB	20-80	4,54-18,16	1,26-5,04
150-GB	20-140	4,54-31,78	1,26-8,82
200-GB	20-200	4,54-45,40	1,26-12,60
100-EFB-CP	5-50	1,14-11,35	0,32-3,15
125-EFB-CP	20-80	4,54-18,16	1,26-5,04
150-EFB-CP	20-140	4,54-31,78	1,26-8,82
200-EFB-CP	20-200	4,54-45,40	1,26-12,60
300-BPE	60-300	13,62-68,10	3,78-18,90
300-BPES	60-300	13,62-68,10	3,78-18,90
300-BPE-MV	60-300	13,62-68,10	3,78-18,90
300-BPES-MV	60-300	13,62-68,10	3,78-18,90



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English PRS-D Pressure Regulator

Thank you for purchasing a Rain Bird PRS-D pressure regulator to optimize the performance of your irrigation system. This product automatically maintains constant outlet pressure regardless of inlet pressure fluctuations. Proper operation requires inlet pressure to be a minimum of 15 psi (1 bar) higher than desired outlet pressure. This product is designed for use with Rain Bird PGA, PEB, PESB, GB, EFB-CP, BPE and BPES commercial valves. Much of the installation is done by hand; elsewhere, an adjustable wrench and pressure hose gauge (PHG) are required.

As with all pressure regulators, this product senses back pressure before regulating outlet pressure. When opening the valve, it is normal for outlet pressure to

momentarily exceed the desired set pressure and then begin regulating outlet pressure. This situation can be greatly reduced by following the installation and adjustment procedures below.

NOTES:

1. For areas with very high pressure or uneven terrain, install sprinklers with PRS pressure regulating stems or SAM check valves.
2. When inlet pressures exceed 100 psi (6,9 bars), a pressure regulating master valve or inline pressure regulator is suggested.
3. Rain Bird does not recommend using the PRS-D module for applications outside the recommended flow ranges (listed in T1).

Installation Refer to F1.

1. Turn off water supply to the valve and turn flow control handle **A** clockwise until closed.
2. Remove solenoid **B** and adapter **C** from bonnet **F** with an adjustable wrench.
3. Remove the Schrader valve cap **D**.
4. Thread PRS-D housing **E** into valve bonnet **F** until hand tight.

5. Loosen slightly to align latch **G** between ribs on plastic valves **H** or hole on brass valves, then push down latch to snap in place.
6. Thread PRS-D cartridge **I** into housing until hand tight, then thread adapter and solenoid into top of housing.
7. Keep the flow control handle closed, then turn on water supply to the valve and proceed with adjustment.

Adjustment Refer to F1.

1. Remove the PRS-D cap by pulling away from the housing. Verify setting is 100 psi (6,9 bars).
2. Attach pressure hose gauge to Schrader valve **D**.
3. Turn solenoid counter-clockwise 1/4 turn to manually open the valve or activate the solenoid from the controller. Do not use external bleed.
4. Turn flow control handle counter-clockwise until pressure gauge indicates

5. 15 psi (1 bar) above desired downstream pressure.
5. Turn PRS-D adjustment knob **J** until pressure gauge indicates the desired outlet pressure, then replace PRS-D and Schrader valve caps.
7. Turn solenoid clockwise to close the valve or deactivate the solenoid from the controller.

Troubleshooting

External Leaks. Main cause is improper o-ring seal between bonnet, cartridge, adapter or solenoid.

1. Turn off water supply to the valve, then unthread parts at the leak.
2. Wipe or blow parts clean, reassemble, then turn on water supply and verify proper function.

Internal leaks. Main cause is loose solenoid. If tightening solenoid does not fix the leak, proceed as follows.

1. Turn off water supply to the valve, then remove solenoid and clean debris.
2. Unthread the PRS-D and check the rubber boot under the housing for tears or debris.
3. Check inside the solenoid bowl for damage to the white seat; a slight impression on top is normal.

4. Clean all parts and reassemble, then turn on water supply and verify proper function.

Excess Vibration. Main cause is excess air in the line or operation outside recommended flow ranges (see T1). To purge the air, proceed as follows.

1. Keep water supply on.
2. PGA valves only, remove solenoid and let water flow for two minutes.
3. All other valves, remove external bleed screw and let water flow for two minutes.
4. Open and close flow control handle a few times to remove air trapped inside the bonnet.
5. Reinstall parts, follow adjustment procedures and verify proper function.

Notes

Replacement Parts Refer to F2.

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|-----------------------------|-------------------------------|
| 1. Dial assembly.....B33136 | 5. O-ring, housing.....209502 |
| 2. Cap.....231678 | 6. Schrader valve.....203030 |
| 3. Seat assembly.....231742 | 7. Solenoid seal.....208629 |
| 4. O-ring, seat.....203026 | |

F1

