

# Medium Flow Residential Control Zone Kit (for 2 Wire)

TECHNICAL SPECIFICATIONS  
XCZ-PGA-100-PRF

This residential control Zone Kit comes included with the Rain Bird® PGA series valve - the toughest, most reliable valves in its class. Compatible with 2 Wire controllers like EXP-LXD, it is built for high-end residential and light commercial applications.

## FEATURES:

- **Reliable:** Control Zone Kit that includes an extra durable PGA valve
- **Controller Versatility:** 2-wire compatible residential Control Zone Kit
- **Long-term Reliability:** Provides on/off control, filtration, and pressure regulation with only two parts; so there is less chance of leakage at the connections, both at installation and over the life of the system

## MODEL:



XCZ-PGA-100-PRF

1" Medium Flow Control Zone Kit (for 2 Wire)

## OPERATING RANGES:

**Operating Flow Range**  
3 to 15 gpm; (11.4 to 56.8 l/m)

**Min Diagnostic Flow**  
N/A

**Inlet Pressure**  
20 to 150 psi; (1.4 to 10.3 bar)

**Regulated Pressure:**  
40 psi (2.8 bar)

## ADDITIONAL SPECIFICATION NOTES:

\*0.9 gph dripline with 12" emitter spacing

## OTHER SPECIFICATIONS:

**Valve**  
XCZ-PGA-100-PRF: 100PGA

**Filter Type**  
Stainless steel screen filter; 200 mesh (75 micron)

**Flow Rate Capability\***  
200 to 1000 ft (61 to 304m) of dripline

**Valve Box**  
Mini-Standard or 10" Round

**Warranty**  
3 years

## Controller Compatibility

- Compatible with traditionally-wired controllers.
- Compatible with TBOS / DC controller when used with DC Latching solenoid.
- Compatible with IVM controllers (ESP-LXIVM/LXIVMP) when used with IVM SOL.
- Compatible with 2-wire decoder systems like ESP-LXD controller.

**Dimensions**  
Length = 11"

**Replacement Filter**  
RBY-200SSMX

**Inlet Size**  
XCZ-PGA-100-PRF: 1"x 1" NPT



**SPECIFICATIONS:**

The control zone kit shall contain 2 pieces: an integrated Pressure-Regulating Filter (PR Filter) and a valve.

The PR Filter shall contain both a 200 mesh filter and a pressure regulator. The pressure regulating filter body shall be constructed of heavy-duty, glass-filled, UV resistant plastic material providing a pressure rating of not less than 150 psi.

The filter element shall be constructed of a durable polyester fabric attached to a propylene frame. The standard 200-mesh (75 micron) screen shall be serviceable for cleaning purposes by unscrewing the cap from the body and removing the filter element. Replaceable filter elements (white) 200-mesh (75 micron) shall be available from the same manufacturer of the inline filter. The 3/4 pressure regulating filter body shall have a 3/4" male threaded inlet and outlet. The 1" PR Filter shall have a 1" male threaded inlet and outlet. The design shall be of a compact "Y" body and cap configuration. The dimension for the filter shall not exceed the following: Height: 4 1/2" (11,4 cm), Length: 5 1/2" (14 cm), Width: 2" (5,1 cm).

The pressure regulating element of the pressure regulating filter is a normally open device that allows full flow with a little pressure loss unless the inlet pressure is greater than preset level. As the inlet pressure increases above the preset level it compresses a spring and begins to reduce the flow and downstream pressure. The 3/4" pressure regulator shall have a preset outlet pressure of approximately 30 psi (2,0 bars) at a flow rate of \_\_\_ GPM or (l/s: m3 /h). The 1" pressure regulator shall have a preset outlet pressure of approximately 40 psi (2,6 bars) at a flow rate of \_\_\_ GPM or (l/s: m3 /h). The pressure regulator shall be able to accommodate an inlet pressure rating of not less than 120 psi (8,3 bars). The control zone kits shall have the ability to be installed either above or below ground.

The control zone kits shall have an automatic irrigation control valve. 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 exceed: \_\_\_\_\_ psi bar

The valve body and bonnet shall be constructed of high-impact, water-resistant PVC for the body and glass-filled nylon for the bonnet with stainless steel screws.

The valve shall have manual open/close control (internal bleed) for manual opening and closing of the 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.

The control zone kits shall be manufactured by Rain Bird Corporation, Azusa, CA.

XCZ-PGA-100-PRF			
Minimum Inlet Pressure for 40 psi (2.8 bar) Outlet Pressure			
FLOW		INLET PRESSURE	
gpm	l/m	psi	bar
3.0	11.4	45.8	3.2
5.0	18.9	47.0	3.2
10.0	37.9	50.7	3.5
15.0	56.8	57.6	4.0

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