

## 1.5" Inline Commercial Control Zone Kit

Run Up to 62 gpm for Large Zones

### Applications

Rain Bird® 1.5" Inline Commercial Control Zone Kits feature a flow range of 15 gpm to 62 gpm, making it perfect for irrigation of large commercial drip or small spray zones. The kit provides all the needed components for a drip irrigation zone (on/off control, filtration and pressure regulation) in one fully assembled kit.

The high flow capacity of this kit allows customers to run larger commercial zones with one kit, streamlining installation and reducing material and labor cost.

### Features

- **High Flow Range:** Allows for larger drip zone coverage with one control zone kit, saving labor cost, material cost and installation hassle.
- **Low Friction Loss:** Allows usage in zones with lower head pressure.
- **Fully Assembled:** Saves installation labor cost by ensuring all key components are included and that the direction of flow in individual components is assembled properly.
- **Inline Configuration:** Fewer connection points, which fits two kits instead of just one in a jumbo valve box. Also provides more access for maintenance and components.

### PEB/PESB-R Valve

- Body constructed of durable glass-filled nylon for long life and heavy-duty performance.
- One-piece solenoid design with captured plunger and spring for easy servicing.
- External and internal bleed options.
- **PESB Only:** Scrubber scrapes its stainless steel screen clean to break down grit and plant material, preventing debris build-up and clogging.



### Large-Capacity RBY Filters

- **Disc Filter:** Made up of over a hundred grooved discs that allow water to pass while trapping debris. Requires less maintenance due to the large surface area. The threaded closure system locks discs into place while in operation and allows them to be decompressed for easy cleaning of the filter unit.
- **Screen Filter:** The 120 mesh (130 micron) durable 316 stainless steel (AISI) screen filters are easy to clean and provide reliable filtration.

### 1½" Pressure Regulator

- Body constructed of high strength ABS formulated for long life.

### Operating Range

- **Flow Range:** 15 to 62 gpm (56.8 l/min to 234.69 l/min)
- **Inlet Pressure:** 15 to 115 psi (1.03 to 7.9 bar)
- **Regulated Pressure:** 40 psi (2.8 bar)
- **Filtration:** 120 mesh (130 micron)
- **Water Temperature:** 33°F up to 110°F (0,5°C to 43°C)
- **Ambient Temperature:** 33°F up to 125°F (0,5°C to 52°C)

### Models

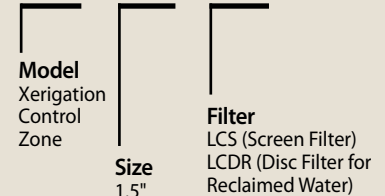
- XCZ-150-LCS
- XCZ-150-LCDR

### Specifications

- **Dimensions:**
  - XCZ-150-LCS: 20¾" L x 5¾" W x 9½" H
  - XCZ-150-LCDR: 23½" L x 5¾" W x 9½" H
- **Filtration:**
  - XCZ-150-LCS: 1½" (3.81 cm) Stainless Steel Screen Filter, 120 Mesh (130 Micron); Surface Area: 42 in² (270 cm²)
  - XCZ-150-LCDR: 1½" (3.81 cm) Disc Filter, 120 Mesh (130 Micron); Surface Area: 48 in² (310 cm²)
- **Valve Type:**
  - XCZ-150-LCS: 1.5" PEB
  - XCZ-150-LCDR: 1.5" PESB-R
- **Power:** 24 VAC 50/60 Hz (cycles/sec) solenoid
- **Inrush Current:** 0.41A (9.84 VA) at 60Hz
- **Holding Current:** 0.14A (3.43VA) at 60Hz
- **Coil Resistance:** 30-39 Ohms
- Two-wire compatible with ESP-LXD Decoders

### How to Specify

**XCZ – 150 – LCS**





## Specifications

The electric remote control valve shall be a normally closed 24 VAC 50/60 Hz (cycles/sec) solenoid actuated globe pattern design. The valve pressure rating shall not be less than 200 psi (13.80 bar). The valve shall be operated at the following specifications for this kit: Flow rate: 62 gpm (236.7 l/m).

The valve body shall be constructed of heavy-duty, glass-filled, UV-resistant nylon and have stainless steel studs and flange nuts; diaphragm shall be of nylon reinforced nitrile rubber. The valve construction shall be such as to provide for all internal parts to be removable from the top of the valve without disturbing the valve installation.

The valve shall have both internal and external manual open/close control (internal and external bleed) to open and close 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 valve solenoid shall open with 19.6 VAC minimum at 200 psi (13.80 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 brass 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 200 psi (13.80 bar), and less than 30 seconds at 20 psi (1.38 bar).

The PESB-R valve shall have a self-cleaning stainless steel screen designed for use in dirty water applications.

The filter included in the kit shall provide in line filtration for flows ranging up to 62 gpm (14 m<sup>2</sup>/hr) with a maximum pressure of 115 psi. The product will allow for manual removal and cleaning of the filter cartridge (disc or screen) without the requirement of a tool.

The pressure regulator shall have an operating pressure range of 15 psi (1.03 bar) to 150 psi (10.34 bar) maximum and an operating flow range of 15 gpm (56.8 l/min) to 70 gpm (265 l/min). Nominal Regulated Outlet pressure set at 40 psi, which must be achieved at a minimum inlet pressure of 45 psi (3.1 bar) at 15 gpm (56.8 l/min).

The pressure regulator shall be operational after winterization and freezing climate (48 hrs. at -40 Fahrenheit/Celsius).

## Flow and Pressure Characteristics

Pressure Loss (psi)		
Flow Rate (gpm)	XCZ-150-LCS	XCZ-150-LCDR
15	3.00	2.00
20	3.00	2.00
25	3.00	3.00
30	5.00	3.00
40	6.00	6.00
50	11.00	8.00
60	15.00	8.00
70	16.00	8.00

Pressure Loss (bar)		
Flow Rate (l/m)	XCZ-150-LCS	XCZ-150-LCDR
56.9	0.21	0.14
75.7	0.21	0.14
94.6	0.21	0.21
113.5	0.34	0.21
151.4	0.41	0.41
189.3	0.76	0.55
227.1	1.03	0.55
264.9	1.10	0.55

### Rain Bird Corporation

6991 East Southpoint Road  
Tucson, AZ 85756  
Phone: (520) 741-6100  
Fax: (520) 741-6522

### Rain Bird Technical Services

(800) RAINBIRD (1-800-724-6247) (U.S. & Canada)

### Rain Bird Corporation

970 West Sierra Madre Avenue  
Azusa, CA 91702  
Phone: (626) 812-3400  
Fax: (626) 812-3411

### Specification Hotline

800-458-3005 (U.S. & Canada)

### Rain Bird International, Inc.

1000 West Sierra Madre Ave  
Azusa, CA 91702  
Phone: (626) 963-9311  
Fax: (626) 852-7343

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