1.5” High Flow Commercial Control Zone Kit

XCZ-150-LCS, XCZ-150-LCDR

Technical Specifications

XCZ-150-LCS
1.5” High Flow Control Zone Kit
with Screen Filter

XCZ-150-LCDR
1.5” High Flow Control Zone Kit
(Non-potable) with Disc Filter

Delivering a flow rate up to 62 GPM—the highest in its category—and a design that minimizes friction loss, the 1.5” Commercial Control Zone Kit gives you the versatility to take on larger zones. It’s the best option to save time and money when installing commercial drip or spray irrigation.

FEATURES:

- **Higher Flow, Less Friction:** The control zone gives you unmatched versatility for commercial drip and spray irrigation applications. The control zone kit provides a high flow range of 20–62 gpm even with modest inlet pressure.
- **Convenience That’s Ready to Go:** Using this kit with the highest maximum flow rate available, you can cover large zones while using fewer kits—saving money on every job.
- **Long-term Reliability**: These preassembled kits provide on/off control, filtration, and pressure regulation with minimal connection points; so there is less chance of leakage at the connections, both at installation and over the life of the system.

OPERATING RANGE

Operating Flow Rate
20 to 62 gpm; (75.7 to 234.7 l/m)

Operating Inlet Pressure Range
15 to 115 psi; (1.03 to 7.9 bar)

Regulated Pressure
40 psi (2.8 bar)

Required Minimum Inlet Pressure to Achieve Regulated Outlet Pressure
XCZ-150-LCS: 45 psi (3.1 bar)
XCZ-150-LCDR: 46 psi (3.2 bar)

Additional Specification Notes:
*0.9 gph dripline with 12” emitter spacing

OTHER SPECIFICATIONS

Dimensions
XCZ-150-LCS: 15 ¼” Length
XCZ-150-LCDR: 18 ½” Length

Valve
XCZ-150-LCS: 150PEB
XCZ-150-LCDR: 150PESBR

Filter Type
XCZ-150-LCS: Large capacity screen filter; 120 mesh (130 micron)
XCZ-150-LCDR: Large capacity disc filter; 120 mesh (130 micron)

Flow Rate Capability*
1000 to 4000 ft (305 to 1209m) of dripline

Valve Box
Jumbo Rectangular

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

Replacement Filter
XCZ-150-LCS: LGFC120MS
XCZ-150-LCDR: LGFC120MD

Inlet Size
1.5” x 1.5” NPT

SPECIFICATIONS:

The control zone kit shall contain a high-capacity filter and a valve with a pressure regulating system (PRS) fixed at 40 PSI.

The filter included in the kit shall provide in line filtration for flows ranging up to 62 gpm (14 m^2/hr) with a maximum pressure of 115 psi (7.93 bar). The product will allow for manual removal and cleaning of the filter cartridge (disc or screen) without the requirement of a tool.

The control zone kit 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 20 gpm (75.7 l/min) to 62 gpm (234.7 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) when a screen filter is used or 46 psi (3.2 bar) when a disc filter is used. The control zone kit shall be operational after winterization and freezing climate (48 hrs. at -40° Fahrenheit/Celsius).

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 (234.7 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 control zone kits shall be manufactured by Rain Bird® Corporation, Azusa, California.

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