

Specifications

OPERATING RANGE	
Inlet Pressure	15 to 150 PSI (1 to 10.3 bar)
Flow	3 to 30 GPM (11 to 114 LPM)
Temperature	40° to 120° F (4.4° to 49° C)

MECHANICAL CHARACTERISTICS	
Inlet:	1-inch NPT Female
Outlet:	1-inch NPT Male
Length:	9 ½ inches
Height:	7 ¾ inches

Technical Assistance:

Internet: www.rainbird.com
Toll Free: 800-247-3782

Thank you for using our products.

Rain Bird Corporation
6991 E. Southpoint Road
Tucson, AZ 85756
Phone: (520) 741-6100
Fax: (520) 741-6522

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

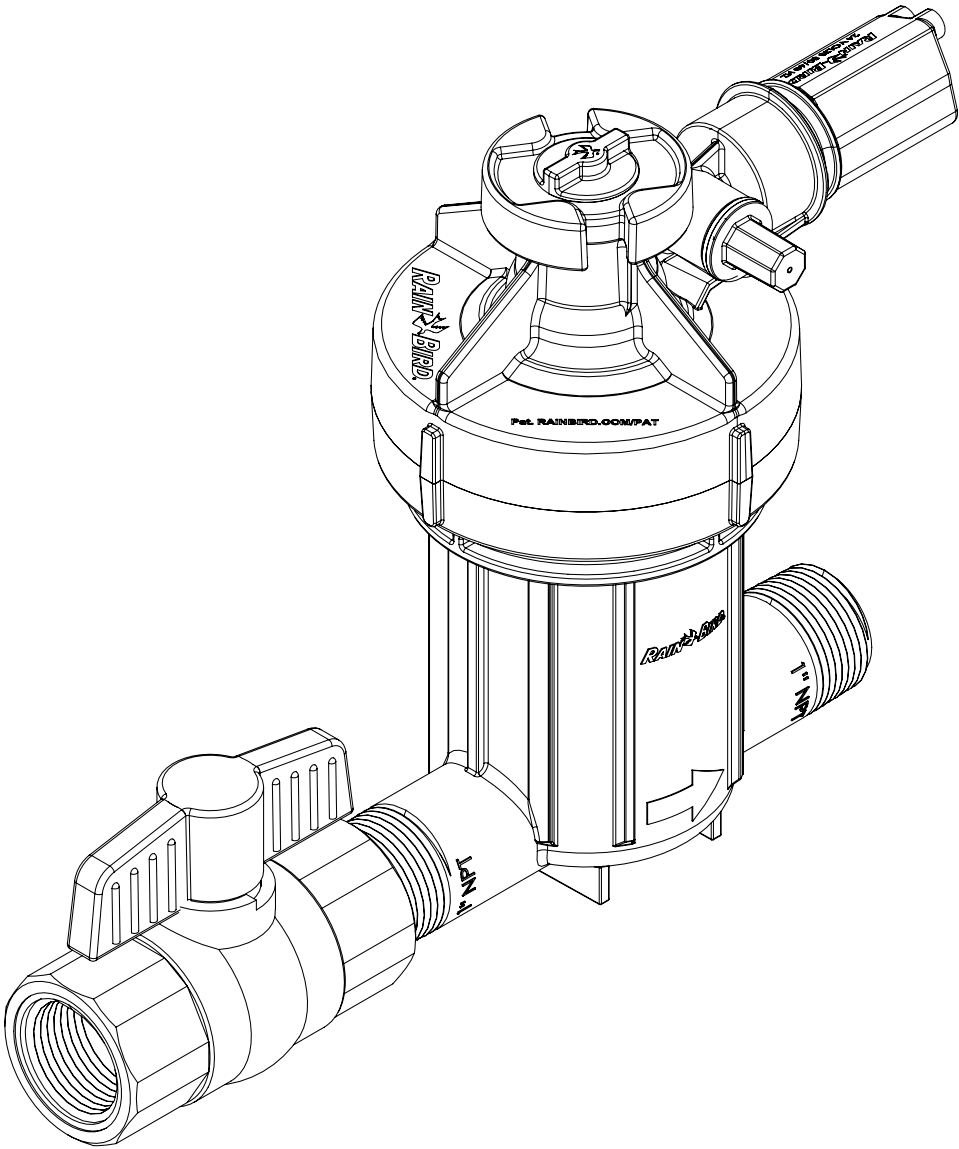
Rain Bird International, Inc
1000 West Sierra Madre
Azusa, CA 91702
Phone: (626) 963-9311
Fax: (626) 852-7343

The Intelligent Use of Water™ – Visit www.rainbird.com to learn about our efforts.

® Registered trademark of Rain Bird Corporation



1” All-in-One Zone Control:



Model: XAOZ100
Installation & Operation

Overview

The All-in-One Zone Control (XAOZ100) is designed for Drip and other zones that require filtration and pressure regulation in addition to a solenoid valve. A manual ball valve is included on the inlet to facilitate maintenance.

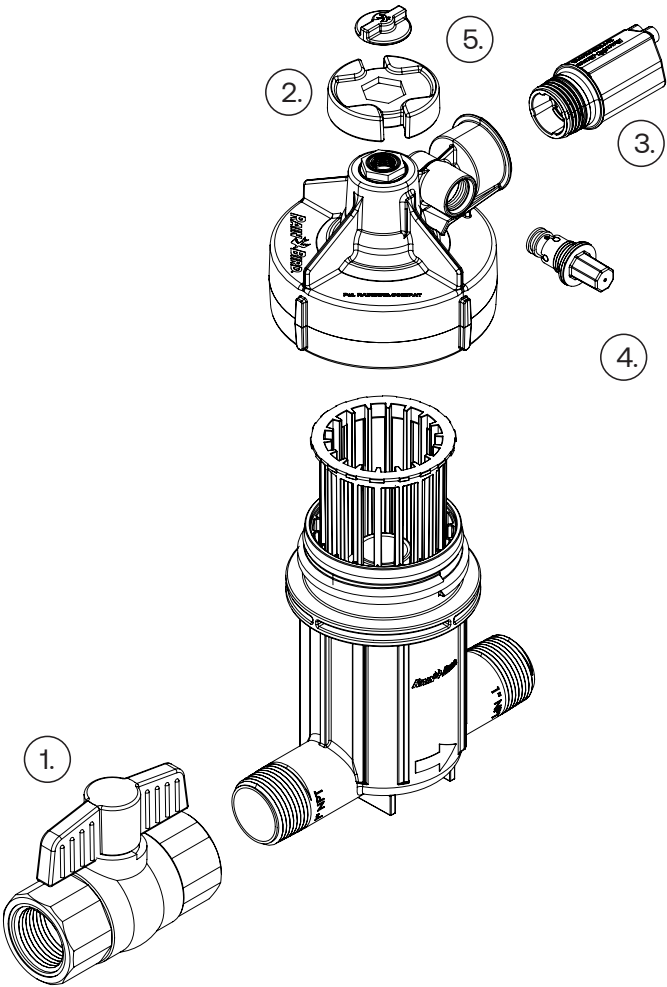
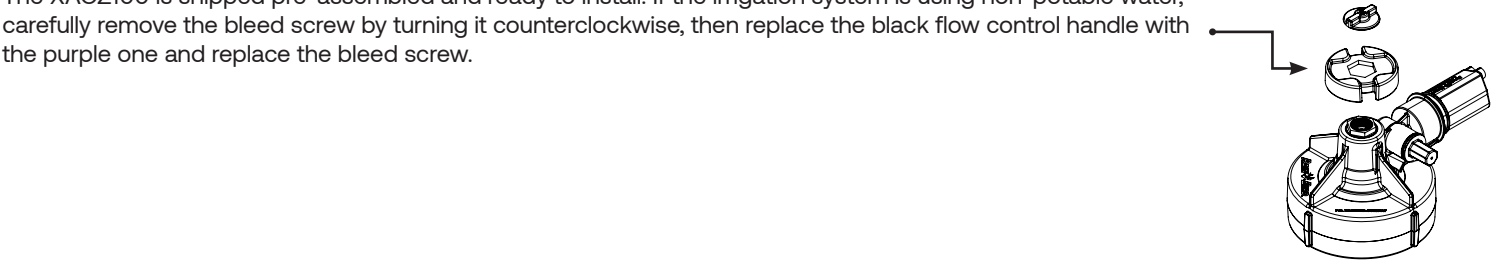
Package Contents

Preassembled XAOZ100 with solenoid and manual ball valve. Purple flow control handle. User manual.

Specifications

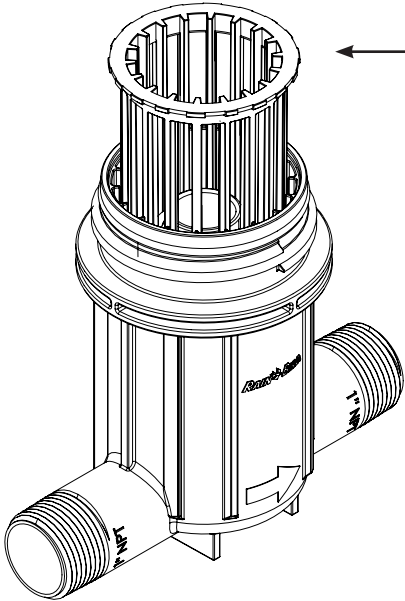
The XAOZ100 must be installed in an appropriate valve box measuring at least 10 inches long and 8 inches wide with at least 8 inches of vertical clearance under the lid. If installing multiple units in the same valve box, ensure a minimum of 5 inches between centerlines to facilitate maintenance.

The XAOZ100 is shipped pre-assembled and ready to install. If the irrigation system is using non-potable water, carefully remove the bleed screw by turning it counterclockwise, then replace the black flow control handle with the purple one and replace the bleed screw.



1. Thread the supply line into the inlet of the manual ball valve using 1-inch NPT fittings and pipe-thread tape as necessary. Attach the outlet using 1-inch NPT fittings and pipe-thread tape as necessary.
2. The valve can be actuated manually for flushing by loosening the bleed screw or twisting the solenoid ¼ turn counterclockwise.
3. Connect the solenoid as indicated by the system controller type using water-proof electrical connectors such as Rain Bird's WC20.
 - a. The XAOZ100 ships with a solenoid pre-installed that is compatible with most traditional and two-wire controllers. If desired, the solenoid can be replaced by IVM or other solenoid types with appropriate adapters.
4. The Flow Control is set at the factory to 15 - 20 GPM to prevent water hammer when charging an empty zone. If supply pressure is low, or a different flow rate is needed, turn the Flow Control Handle to adjust as necessary.
5. When activating the system for the first time, loosen the bleed screw slowly until a dribble of water comes out, then tighten. This releases any air that may be trapped in the valve.

Maintenance



The XAOZ100's filter should be cleaned at least once per irrigation season, prior to winterization. More frequent cleanings may be needed if the water source contains sand or other particulates as may be the case with ponds, wells, or non-potable water systems.

1. Close the manual ball valve.
2. Remove the cap assembly by turning it 3 to 4 rotations counterclockwise.
 - a. It may be necessary to first remove the solenoid.
3. Set the cap aside then pull the filter element out of the body.
 - a. A small screwdriver or rotor adjustment tool can be inserted between the filter element and the body to pry up the filter, if necessary.
4. Empty the filter and rinse with clean water to remove any remaining debris.
5. Check the underside of the cap for any damage and rinse out any debris
6. Re-insert the filter basket into the body and replace the cap and solenoid.
 - a. The solenoid will be parallel to the outlet when properly tightened.
 - b. If the solenoid was removed, be sure to check for any debris before replacing it.
7. Open the Manual Ball Valve.
8. Loosen the Bleed Screw slowly until water begins to dribble out, then tighten.

The valve diaphragm is not user serviceable.

Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Valve does not close or takes a long time to close	Air trapped in valve	Loosen the Bleed Screw slowly until water begins to dribble out, then tighten.
	Flow is less than 3 GPM	Adjust Flow Control
		Clean filter
Valve does not open from controller signal (but will open manually)	Bad Connection to Controller	Check for clogs in emitters or watering devices
		Check controller wiring
	Solenoid Fault	Check solenoid function, inspect for any damage
Valve will not open manually	Controller Fault	Consult controller documentation
		Verify supply pressure is > 15 PSI
	Low supply pressure	Verify manual ball valve is fully open
Valve is exceptionally noisy	Flow control too loose	Tighten flow control by turning the handle clockwise until valve is quieter
Insufficient flow through the valve	Flow control too tight	Loosen flow control by turning the handle counter clockwise until desired flow is achieved
	Insufficient water supply	Install a booster pump or reduce the size of the zone