



galcon



Sentek

Irrigation control that makes sense

Support

Monday - Friday

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## Troubleshooting Valves

Key components that are tied to a valve(s)

Controller/ Timer

Wires from Controller to Valve(s) – Solenoid (2wires)

It is important to confirm that the controller is the correct type (**DC** or **AC**) and the same as the Valve.

Most cases such as remote areas or further distance from a power source. A DC powered unit is preferred.

## Features

- Automatic or manual operation, enabling opening and closing of the valve regardless of the solenoid position.
- The valves are available in the following diameters: ¾", 1", 1.5", 2"
- Powered by a two-wire AC or DC solenoid.
- NPT thread
- Working pressure: 1-7 bar (14-100 psi)
- Maximum temperature – 140°F/60°C

## Troubleshooting

**SYMPTOM - VALVE STAYS ON:** \* • Examine diaphragm for tear or rock dent. • Solenoid is rusted. • Diaphragm is old. Rub it, if hands turn black, the rubber is going bad. • Check for diaphragm bubbling in center; replace if found. • Teflon screw on diaphragm is broken off. • Check for rock or sand under the diaphragm.

**SYMPTOM – CURRENTLY INSTALLED VALVE WON'T ACTIVATE:** \* • Bad wire connection, either broken or corroded. • Bad diaphragm. • Rusted pin. • Bad solenoid. • Irrigation main has been shut off. • Problem with the timer. Check Valve lever position is in AUTO.

**SYMPTOM - NEW VALVE STAYS ON:** \* • Rock or sand under diaphragm. • Valve installed backwards or upside down. • Missing plunger from solenoid. *Bad Solenoid* • Spring placed under diaphragm, instead of on top. • Timer sending out current, remove wires and see if the valve shuts down.

**SYMPTOM - NEW VALVE DOES NOT COME ON:** • No power. Check all connections. Wires leading from the timer may not be connected at some point. Check connection points outside house where wire from timer enters the ground, and at solenoid on valve in valve box. • Could be a bad solenoid (very rare). • Check to see if the water main is on.

*confirm position of valve lever (Auto), pressure control is opened fully, valve is wired correctly to station.*

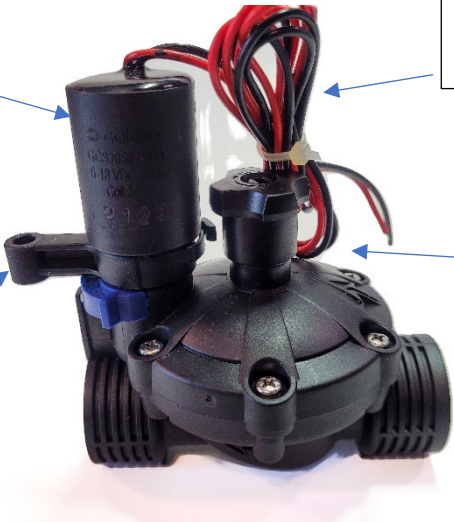


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## DC Valve

DC latching solenoid on DC valves only.

DC valves have Red and Black wires to match polarity with wires on DC controller.



Flow control knob

Lever for manual operation of the valve

## AC Valve

AC Valves have 2 black wire that can be attached to power or common on the 24-volt AC controller.

24-volt AC solenoid



Lever for manual operation of the valve

Flow control knob