

# **AUTO-EC-2-9 Controller**

Backwash Controller Operation & Maintenance Manual

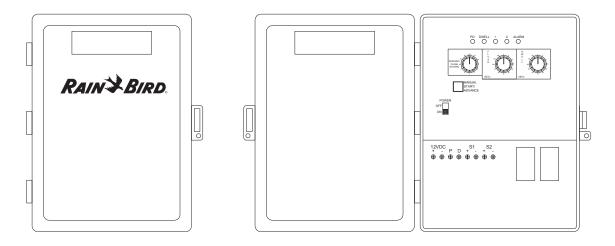


# **CONTENTS**

Controller Basics	3
Functions	4
Basic Installation	5
Basic I+ Series Installation	6
Basic G+ Series Installation	7
Warranty	8

## **Controller Basics**

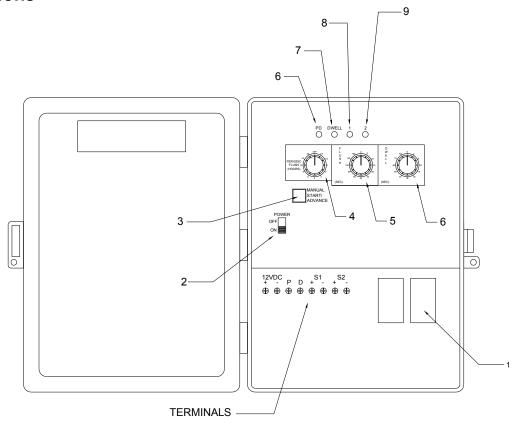
Auto-EC-2 Backwash Controllers are designed to monitor and activate a cleaning cycle for a single filter or two filters in parallel. The controller allows the user to adjust the flush duration, dwell time between backwashes, and the specified periodic backwash. There is also a feature for manual start.



The controller receives an open/closed signal via terminals P and D. This signal is from the differential pressure gauge, and means that the gauge has reached a preset value. Reaching the preset value (usually 7 psid) tells the controller that debris has collected on the screen element, and that an automatic backwash will activate.

When a closed signal is sensed on terminals P and D for a 5 second period, the backwash sequence begins. The backwash sequence is: terminal 1 energizes for the flush duration, then an idle period for the dwell duration, and then terminal 2 energizes for the flush duration. Terminals C and M energize for entire sequence.

# **Functions**



- 1. Two 9V Batteries
- 2. Power. Controls power to the controller board.
- 3. Manual Start / Advance. Manually initiates a backwash sequence.
- 4. Periodic. Preset time for scheduled backwash cycles.
- 5. Flush. Duration of each flush cycle.
- 6. Dwell. Time idle between terminals 1 and 2 in the backwash sequence.
- 7. PD. Closed contact sensed between terminals P and D.
- 8. Dwell. When lit, the backwash sequence is in a dwell state.
- 9. 1. Terminal 1 currently energized.
- 10. 2. Terminal 2 currently energized.

## **TERMINALS**

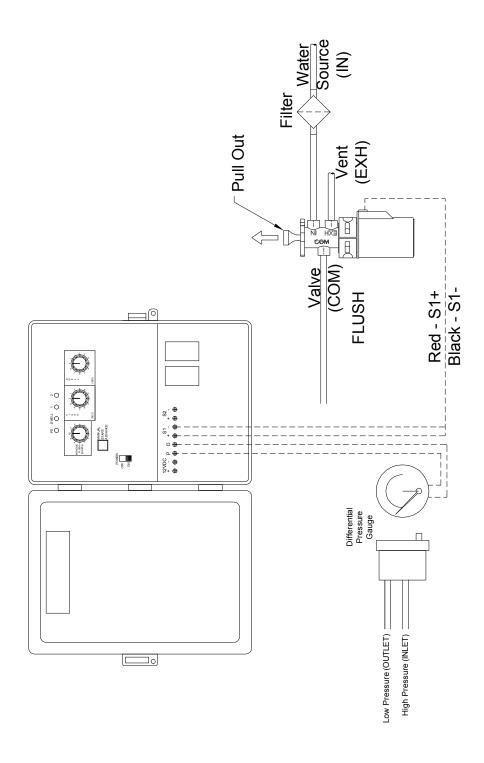
#### 12VDC

- +. Positive terminal for 12VDC external power source.
- -. Negetive terminal for 12VDC external power source.
- P. One leg of the open/closed signal from the differential pressure gauge.
- D. One leg of the open/closed signal from the differential pressure gauge. S1.
- +. Positive terminal for #1 solenoid.
- -. Negetive terminal for #1 solenoid.

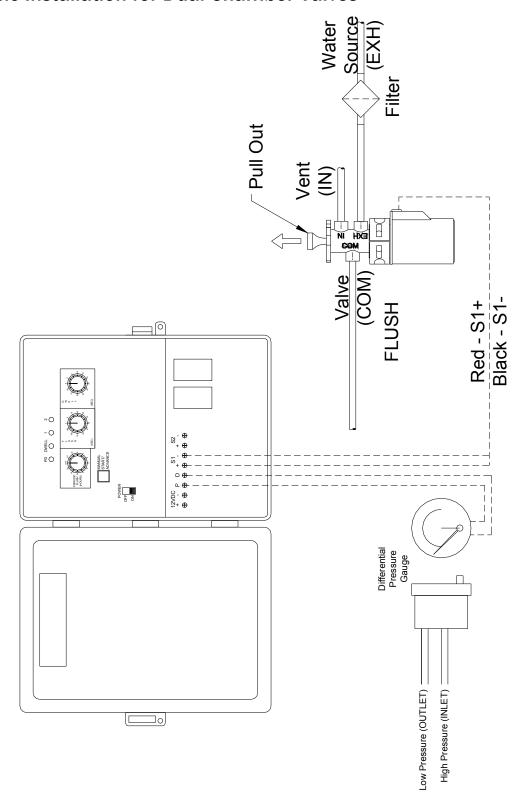
### S2.

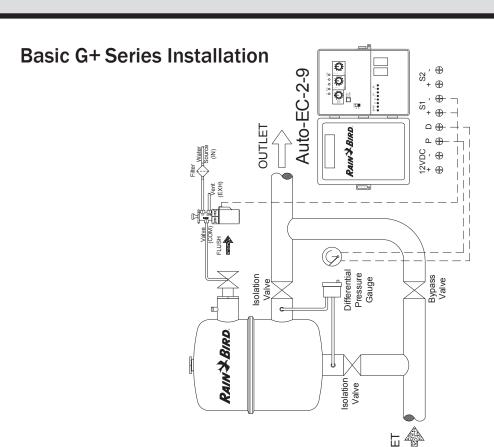
- +. Positive terminal for #2 solenoid.
- -. Negetive terminal for #2 solenoid.

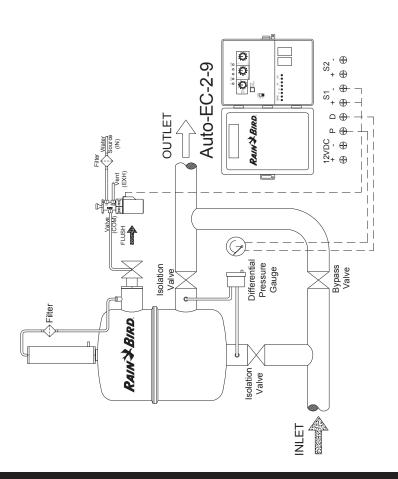
# **Basic Installation for Single Chamber Valves**



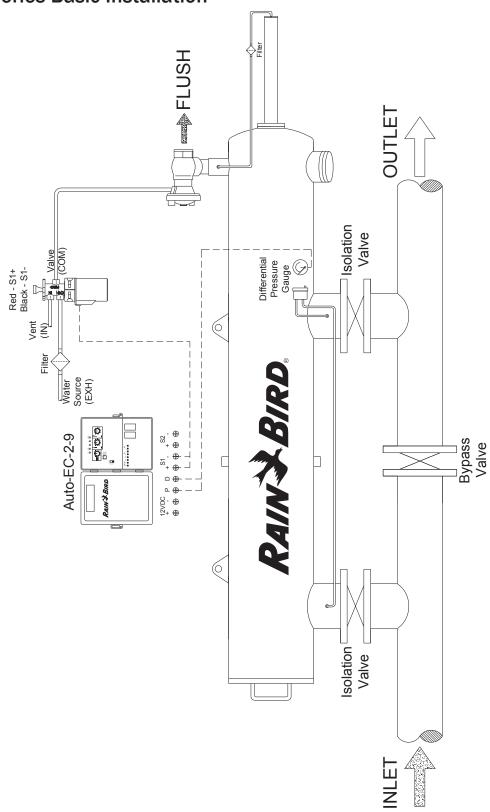
# **Basic Installation for Dual Chamber Valves**







# **I+ Series Basic Installation**





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