



# VALVE AND FILTER CORPORATION

**100% U.S.A. Manufactured**

## **Model VF1-B Automatic Backwash Filter Controller**



**Description:** The model VF1-B filter controller is a battery operated controller designed to control the flushing sequence of most automatic water filters including screen filters, sand filters and media filters. It will automatically flush the filter at an adjustable pressure differential threshold with a timed sequence as a backup flush.

The VF1-B operates on two 9-volt batteries that power a 3-way pulse solenoid which may open and close one or more hydraulic and/or pneumatic flush valves. Both flushing duration time as well as the time interval between flushes are adjustable over a wide range of settings to accommodate almost any type of automatic flushing filter.

Manually flushed filters can usually be automated by adding a new flush valve(s). The 3-way pulse solenoid is included with the controller.

An LED lamp indicates when the 3-way solenoid is "pulsed" to start the flushing cycle and when the solenoid is "pulsed" again indicating the cycle is complete and the filter is back in normal operation.

Lithium batteries are strongly recommended for reliable operation for approximately three (3) years or 50,000 pulses.

## **Valve and Filter**

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## **MODEL VF1-B Specification:**

- HOUSING:** NEMA 4X type, weatherproof, gasketed, lockable cover.
- BATTERIES:** 2 REQUIRED, 9VDC, Lithium or Alkaline (shorter life). Life expectancy is 3 years or 50,000 pulses.
- ELECTRONICS:** Proprietary control board, 12-18 VDC, input with 12 VDC pulse output. Pressure Differential psi gage switch input.
- CONTROLS:** Two banks of rocker dip switches (9 switches each).
- INDICATOR:** LED indicator light indicates pulse on and pulse off of the flush pilot valve.
- PILOT VALVE:** 3-way hydraulic pulse pilot valve, 12VDC input, 1/8" NPT.

Recommended pulse valves are:

<b>MFGR.</b>	<b>NORMALLY CLOSED</b>	<b>NORMALLY OPEN</b>
BERMAD	—	S-982 (NO)
BACCARA	G75A-1-11-3-2-2 (NC)	G75A-1-11-4-2-2 (NO)
ECI	610-203NC	610-203NO

- WARRANTY:** One (1) year after startup or eighteen (18) months after shipment, whichever occurs first. Warranty is strictly limited to replacement or repair (manufacturer's choice) of controller, and/or pulse pilot valve. Damaged, submerged, misused or abused components or those not operated in accordance with these instructions are excluded. Consequential or liquidated damages are specifically excluded.

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