THE BACKFLUSHING CONTROLLER – FILTRON 246

The FILTRON 246 backflushing controller designed and manufactured by TALGIL as a low cost easy to use controller.

The FILTRON 246 exists in 3 sizes - with 2, 4 or 6 stations. DC and AC versions are available. The DC versions are powered by a 12v Alkaline battery. The AC versions include built-in transformer of 24v.

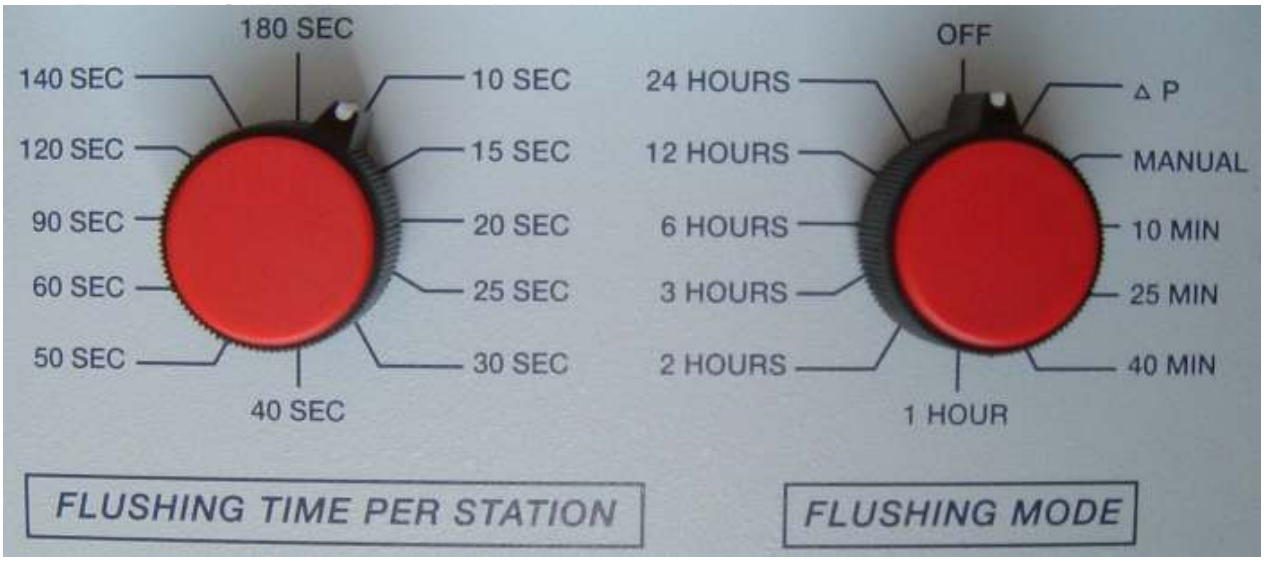
The program selection is done by two ROTARY SWITCHES and an internal DIP-SWITCH enables setting some rarely changing parameters. Optionally an external counter can be added to count the number of backflushing cycles.

LIST OF FEATURES

- DC or AC versions available
- Flushing triggered by Pressure Difference only
- Flushing triggered by Pressure Difference and/or time intervals
- User selectable parameters include:
  - mode of operation: Manual, DP only, DP with time override
  - flushing cycle
  - flushing time
  - dwell time
  - differential pressurstat response time.
  - number of consecutive backflush cycles caused by faulty DP that will be considered circular endless looping.
- Optional activation counter
- Detecting and eliminating circular endless looping

PROGRAM SELECTION

The two rotary switches on the front panel, the right switch selects the FLUSHING MODE and the left switch selects the FLUSHING TIME PER STAUON.



- When the right switch is in the OFF position the controller is switched off and no flushing will take place. The internal buzzer keeps sounding every 4 seconds to indicate that the controller is energized.

- When the right switch points to the DP position the controller will start backflushing only when the pressure differential indication is received.

- When the right switch is on MANUAL position a single flushing cycle is initiated.

- In all other positions of the right switch, the controller will flush according to the specified cycle or upon detection of the pressure differential signal, the event that occurs first.

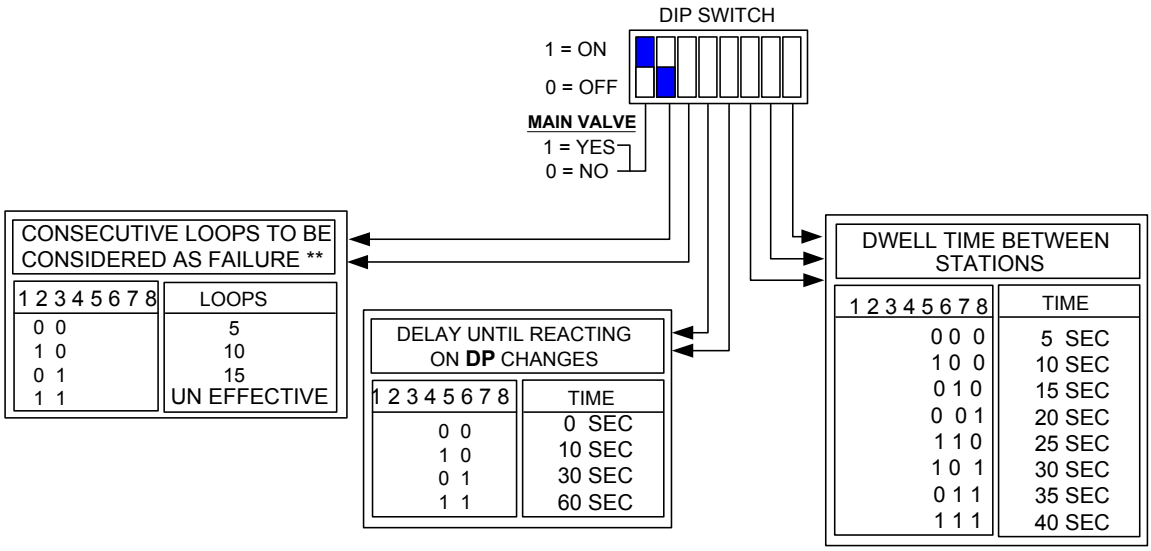
- Changing the position of each of the switches will sound the buzzer.
- The right switch will make a longer beep at the OFF position and the left switch the longer beep will be at the 10 SEC position. The longer beep helps to recognize the right position of the knobs.

HOW TO READJUST THE KNOBS OF THE ROTARY SWITCHES IN CASE THEY GET LOOSE?

1. Keep turning the rotary switch clockwise until you hear the longer beep.
2. At the right switch, fasten the knob with the arrow pointing on OFF.
3. At the left switch, fasten the knob with the arrow pointing on 10 SEC.

SETTING CONSTANT PARAMETERS

Three constant parameters can be set by the internal DIP-SWITCH, the following drawing describes which of the switches is responsible for each parameter and what are the options. The DIP-SWITCH is located at the bottom right comer of the electronic board.



When the DP signal still exists after executing the specified number of consecutive back flushing cycles, it will be considered a failure. An alarm sound will indicate the failure and there will be no more backflushing triggered by DP until the DP signal is removed and the right rotary switch turned to OFF position and back to its normal position. If the selected flushing mode includes time override, the flushing by time interval will continue to be executed.

MAIN VALVE

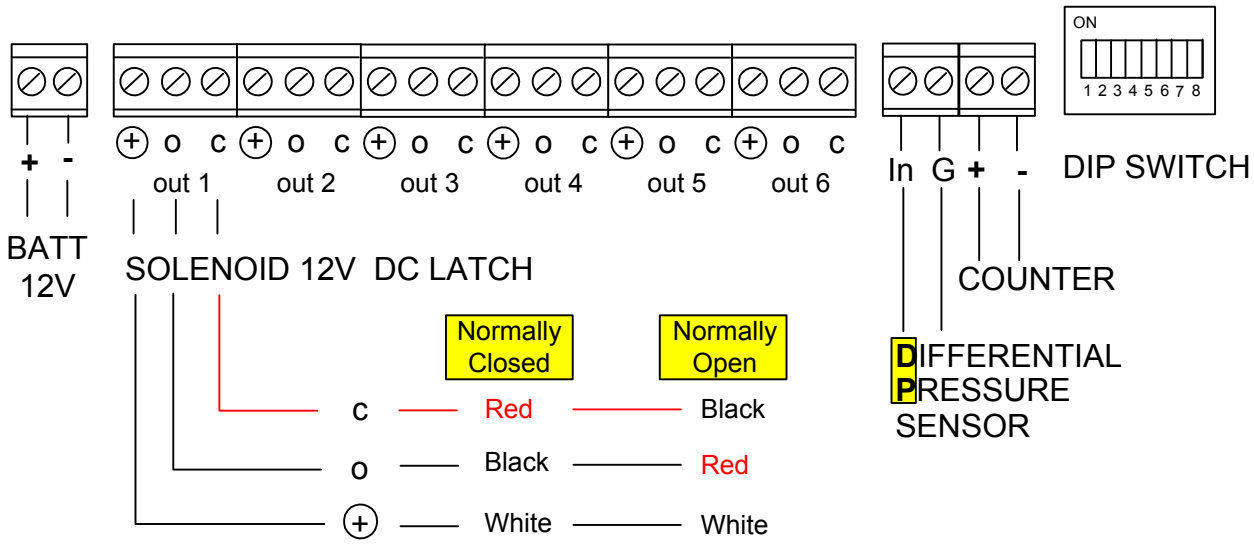
The unit can control a downstream main valve which is turned off while flushing in order to increase pressure. When such a main valve is incorporated in the system, DIP SWITCH No. 1 will be set ON, otherwise it should be set to OFF. The main valve will always be connected as the last output. In FILT'RON 2 it is output No. 2, in FILTRON 4 it is output No. 4 and in FILTRON 6 to output No. 6.

TECHNICAL DATA

POWER SOURCES: FOR AC MODELS - 22OV/50HZ OR 115/60HZ TRANSFORMED INTO 24V. MAXIMUM POWER 25W.

FOR DC MODELS- 12 V 6AH. DRY ALKALINE BATTERY.

CONNECTION BOARD (DC MODEL)



CONNECTION BOARD (AC MODEL)