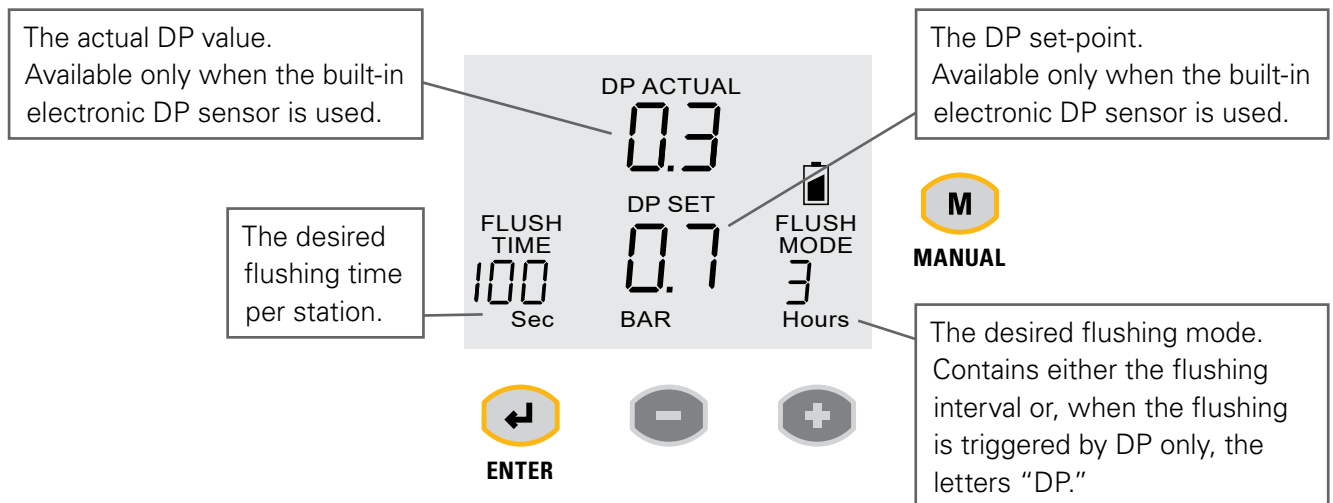


INITIAL OPERATION AND ADJUSTMENT

1. Set the BackFlush controller:

The controller is equipped with an LCD display and 4 keys, as displayed below. When the unit is left untouched for a minute, the display switches off and a beep is heard every 20 seconds to indicate it is working.

Holding down any of the keys for a few seconds will bring the screen back to life.



The screen consists of several fields. Some of them are editable and some of them are not.

To enter the EDIT MODE, press the key. The EDIT MODE is indicated by blinking of the currently editable field.

Each time you press the key, the next editable field becomes active and starts blinking.

Use the and keys to change the value in the active field.

Press the key again to set the selected value for the current field and move to the next editable field.





To return to a previous field during the process of passing through the editable fields, press the key repeatedly until you get back to the FLUSH TIME field, and there are blinking fields. You can then begin the process again.

Configuration

Parameter	Definition	Action
Main valve (sustaining valve)	The pre-dwell delay between the main valve opening and the opening of station 1	Select: YES if exists Enter: 20 sec
Dwell time	The backwashing delay between stations	Enter: 10 sec
DP delay	The delay during which the DP sensor reading is expected to remain stable before reaction	Enter: 10 sec
Looping limit	The number of consecutive flushing cycles triggered by the DP sensor before deciding that there is an endless looping problem	Enter: 3
Alarm	Allocates one output for alarm activation	Select: YES
Delay valve	Allocates one output for delay-valve activation	Select: YES if exists

(continued on the next page)

Configuration (continued)



Parameter	Definition	Action
View outputs	This is a special mode that enables the user to review the list of outputs and their allocations. The output number is displayed in the bottom left corner and its allocated function appears in large letters in the center of the screen	Use the  key to toggle between NO and YES and confirm by pressing the  key. Keep using the  key to review the list
Pressure units	Select the units to be used for pressure measurement	Select: BAR or PSI
Calibration	Zero calibration of the built-in electronic DP sensor.	Disconnect the sensor ports from the command tube and open them to atmospheric pressure; then select calibration: YES
Version display	Displays the controller's software version-number.	No action required. Press the  key twice to proceed.
Flush time	The desired flushing time per station.	Enter: 100 sec
DP set-point	The pressure difference between the filter's inlet and outlet that initiates a flushing cycle.	Enter: 0.7 bar or 10 PSI
Flush mode	The flushing interval or, when the flushing is triggered by DP only, the letters "DP."	Enter: 3 hours

(For full instructions, see the BackFlush controller manual).



NOTE

If the filtration system was not ordered with a BackFlush controller and is used with an existing irrigation system controller, see your irrigation controller user manual for instructions.

2. Turn on the water and start irrigation.
3. As soon as the system is pressurized and stable, start a manual backwashing cycle by pressing the  key. The icon  will appear on the display (to manually terminate a backwashing cycle in progress, press the same key).
4. After completion of a full backwashing cycle, check that the filtration system DP is within the operational range (0.15-0.4 bar/2.2-5.8 PSI, depending on the flow rate). Toggle the control kit 3-way ball valve and note the filtration system inlet and outlet pressure. Subtract the outlet pressure from the inlet pressure. The result is the filtration system DP.
5. Check all the filtration system connections for water leaks – re-fit, re-connect and re-secure if necessary.
6. Check all the command tube connections for leaks – re-fit, re-connect, and re-secure if necessary.
7. Check that the backwashing cycle is performed in the correct order and that all the filters in the system are backwashed in sequence.
8. Check the secondary filter (if installed) for the presence of gravel.



NOTE

If a secondary filter is not installed, disconnect the main line pipe downstream from the filtration system, let the water flow to the ground and visually check for the presence of gravel.

If gravel is present, see [Troubleshooting](#), page 17.



ATTENTION

Steps **2** to **8** above should be performed whenever the operation of the filtration system is resumed after being idle (i.e., after seasonal shutdown, maintenance or troubleshooting operations).