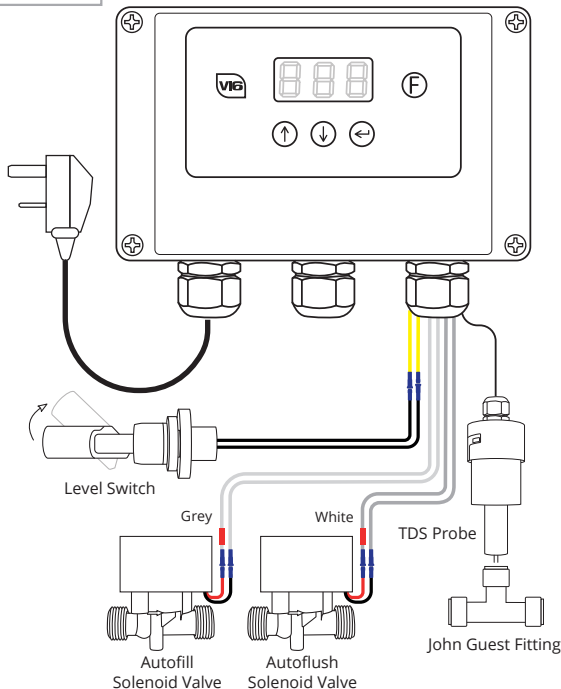




M BPC FL TDS Additional Wiring

1 - Wiring

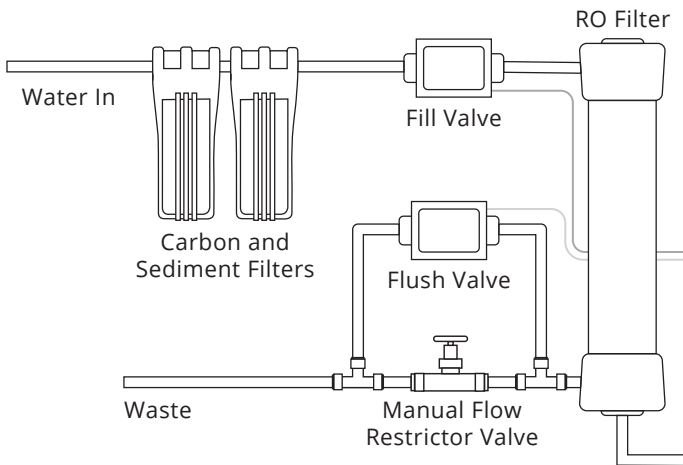


Connect the pump controller in accordance with this diagram.
NOTE: only fit the fuse once all connections are made.

Spring solenoid valves come fitted with grey wires and can be fitted either way round.

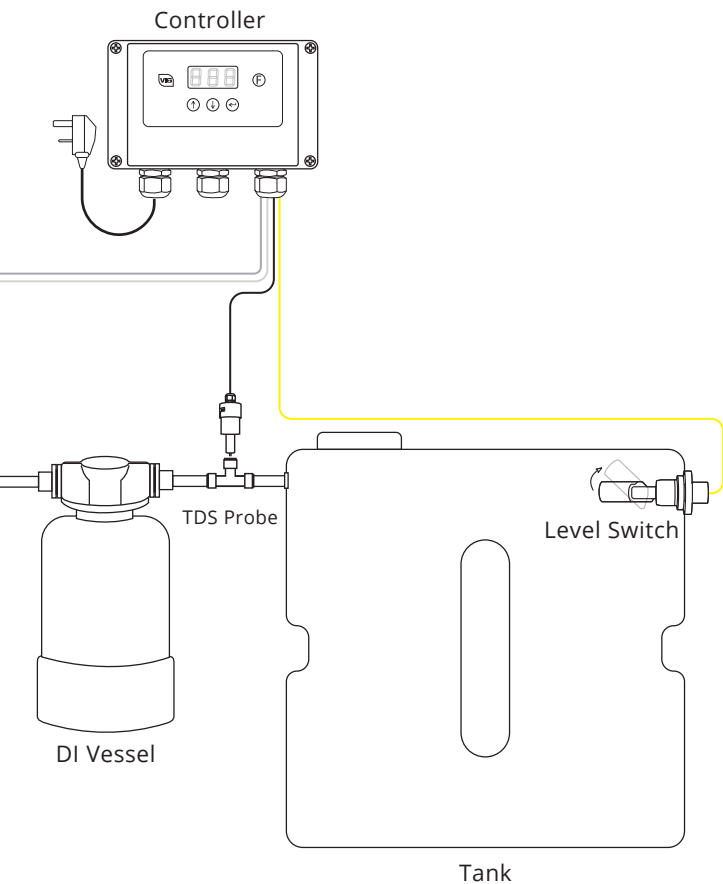


**Make sure correct fuse is fitted inline. Failure to do so may result in damage to the unit.
Observe correct battery polarity. Failure to do so may result in damage to the unit.**



DISCLAIMER!

Unit must be installed by a competent electrician or electrical engineer.
Failure to comply with these instructions could invalidate your warranty.



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This V16M BPC unit is supplied already wired. There is no need to disconnect any wires. Follow these instructions carefully and refer to the wiring diagram.

IT IS RECOMMENDED THAT YOUR V16M IS FITTED AGAINST A WALL OR SIMILAR VERTICAL SURFACE.

1. Ensure the V16M is NOT PLUGGED into the MAINS SUPPLY.
2. Remove the top cover by loosening the four corner screws. Using a large pozidrive screw driver continuously turn clockwise.
3. Carefully remove top cover.
4. Screw unit to the wall or vertical surface through the four ready drilled holes in the corners of the back box.
5. Carefully replace the top cover and tighten the four corner screws using the reverse procedure to instruction 2 above.

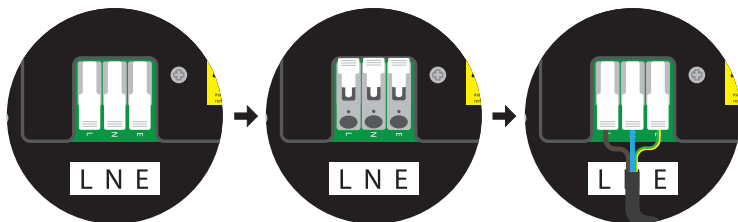
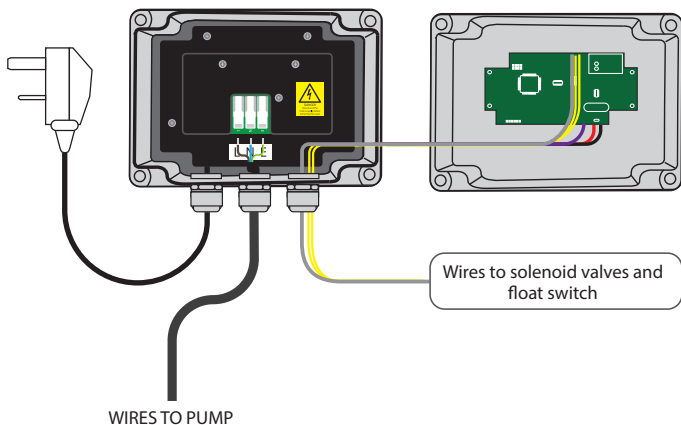
The controller is now ready to use.

Specification	Value
Supply Voltage	85 - 264 VDC
Fuse Rating	5A
Max Switched Load	1000VA
Enclosure Material	ABS
Water Resistance	IP56
Dimensions	169 x 120 x 55 (mm)
Working Temperature	0 to 40 Deg C

DISCLAIMER

THE MANUFACTURER RESERVES THE RIGHT TO MAKE CHANGES TO ANY PRODUCT HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. THE MANUFACTURER DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN.

For more information and videos on how to use Spring controllers please visit: www.springltd.co/videos



1. Insert the pump wires through the middle gland

2. Lift the terminal clips until they lock into place. Carefully insert the yellow/green wire into the earth terminal and close the clip. Do the same again for the blue wire into the neutral terminal and lastly the brown wire into the live terminal.

3. Tighten the gland and replace the top cover and tighten the four corner screws.

The controller has two filling modes:

1. One time fill (stops when the level switch activates/lifts)
2. Fill on demand (refills every time the level switch drops)

To select the required filling mode press and hold the down and enter buttons to enter the menu, then press enter until FOD (fill on demand) is displayed.



Press up or down to change between on and off. Off will set the controller to 'one time fill'. On will set the controller to 'fill on demand'.

Press enter to display the next setting. Fill Delay will only appear when FOD is set to on.



Fdy is the time delay in minutes from the tank reaching full and the filling re-starting should the water level drop. You can set this delay from 0-10 minutes with the up and down buttons. Setting to '0' turns the delay off. Press enter to display the next setting.



The next setting is Autoflush. Your controller has three Autoflush modes:

OFF	Autoflush is off
1	Whilst filling repeat Autoflush every hour (first flush default 300 seconds (or set by distributor) subsequent flushes 40 seconds).
2	Autoflush just once at the start of every fill (300 seconds (or set by distributor)).



Select the required Autoflush mode with the up or down button. Then press enter to move to the next setting.

V16 M BPC FL TDS - Tank Filling (when FOD is off) & Flushing

To start filling the tank (only when FOD is off) press the 'F' button. This will fill the tank until the float switch detects that the tank is full.



The tank can be filled when the unit is on. While the tank is filling, the display will flash FIL.



To manually stop the tank filling press the 'F' button again. The display will stop showing FIL.



Press and hold the 'F' button to perform a manual flush.



This will flush the system for a predetermined time (set by distributor). FLH (Fill By Hand) will be displayed during a flush.



Pressing and holding the 'F' button again will stop the manual flush.



The TDS function provides an indication of the water purity. The TDS value displayed is in ppm* (impurities in parts per million). The TDS meter is intended to check pure water and has a max reading of 200ppm.

For single TDS installations we recommend the TDS probe be fitted after the DI (de-ionising) vessel. You can then check the DI vessel is working.

For good cleaning a TDS of below 5ppm (after the DI) is recommended.

For two TDS unit installations we recommend the second TDS probe be fitted after the RO (reverse osmosis) filter. You can then check the RO is working correctly.

To monitor the TDS reading press enter until TDS is displayed.



Press enter again to monitor the water temperature (in degrees centigrade). NC will be displayed when the probe is not connected.



To change the TDS cutoff value press and hold the down and enter buttons. If the TDS rises above this value the pump will stop and TDS, STP will flash on the controller. This value can be set between 1 and 40 ppm by using the up or down button (eg 5) or turned off when off is selected.



* Probe must be undamaged, clean and free from dirt. Readings are only accurate to +/-2.5% of displayed value when dissolved solid is NaCl.