



flowsafe[®]

Float Switch with Anchor Weight

OPERATION AND MAINTENANCE MANUAL

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Revision Date:

The **flow**safe float switch with anchor weight is one of the most universally used float switches, allowing electrical equipment to stop and start automatically when a pre-set level has been reached. When the tank empties, the float drops below this level and the tank can then re fill.

Ideally suited for level control on a variety of tank sizes due to its compact size. The float switch comes with a 5 or 10 meter cable and a balance weight. The IP68 rated waterproof switch floats on the surface. The balance weight is attached to the cable and placed into the water to set the desired control level.

The free length of the cable (between the balance weight and the switch) determines the lowest and the highest fluid level.

To ensure the efficient function of the appliance it is necessary to fix the electric cable inside the tank or well as illustrated in figures no.5 and no.6.

The length of the cable section between the fixture point of the same and the regulator body, determines the total extension of the float and the consequent distances between the pump stopping and starting level. It is also necessary to check that the float is not obstructed during its run.

During installation joins to the level regulator cable must not be made under any circumstances. An eventual cable join section must never be immersed in water.

If the float is used in filling mode, the system must be fitted with an adequate overflow device.

For correct counterweight installation refer to the following procedure as illustrated in figure no.7.

1. Insert the cable into the counterweight, from the conic part, turning it. This will result in the detachment of the plastic ring inserted in the mouth (if necessary aid detachment by using a screwdriver). Place the ring at the point of the cable where the counterweight is to be fixed.
2. Fix the counterweight on the ring using moderate pressure and turning it.

ELECTRICAL CONNECTIONS

For correct product installation refer to wiring diagrams in figures no. 1-2 [single function floats with ground] and figures no. 3-4 [double function floats without ground].

The floats with dual function can be used for filling [fig. 2,4] or emptying [fig. 1,3] according to the connections made between the terminals of the microswitch and the cable.

Always disconnect the power supply from the main power panel before undertaking any operations on the float.

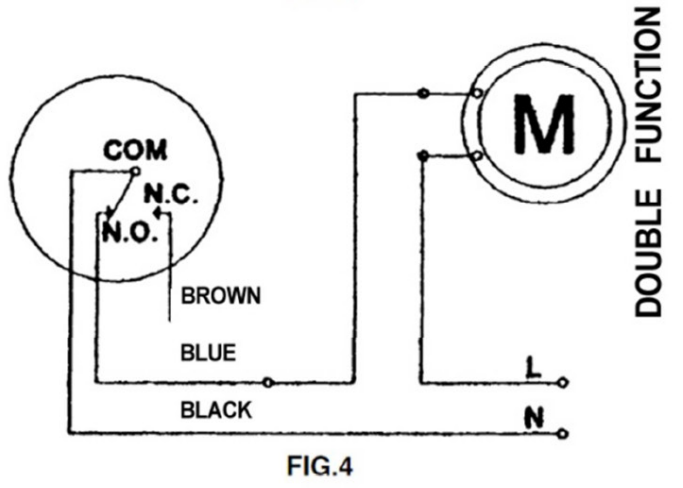
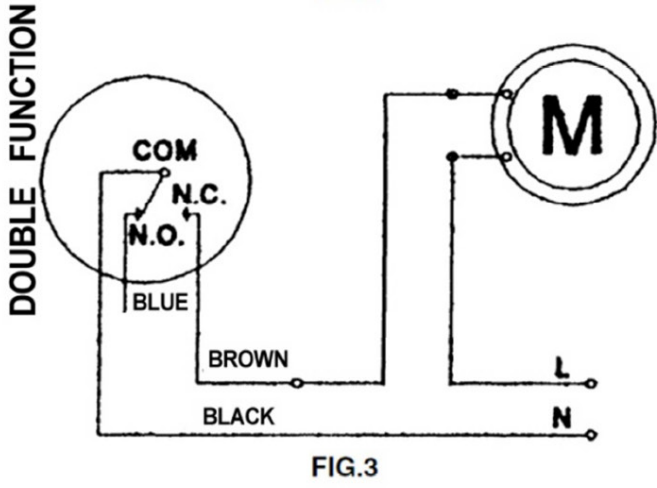
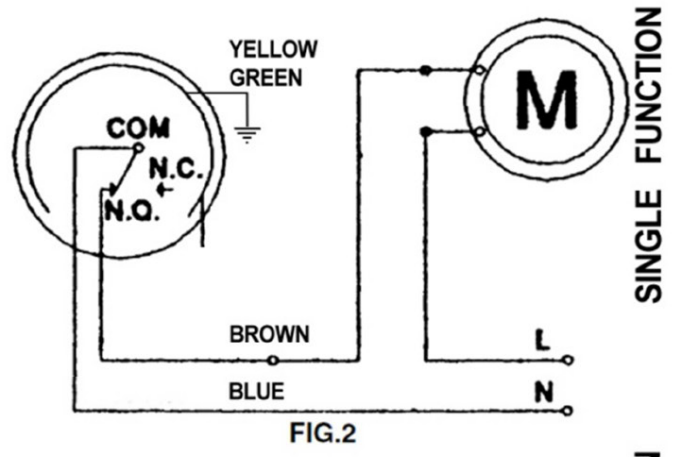
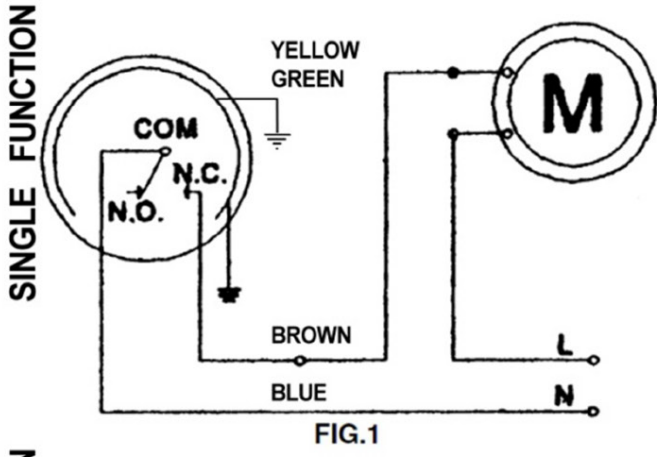
NOTE

When making the connections described above ensure that the maximum motor power does not exceed the values indicated on the level regulator.

The power supply cable is an integral part of the appliance.

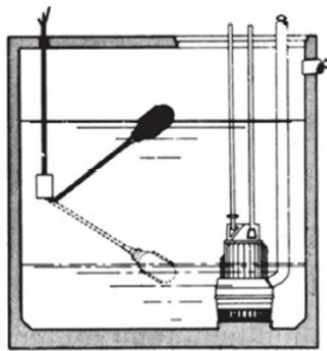
Should the cable be found to be damaged the appliance is to be replaced. Repairs to the cable itself are not possible.

The earth wire of yellow/green color must be connected to a suitable earth terminal and the section dimension must not be less than 1mm². The eventual terminal used must be effectively protected against accidental slackening.

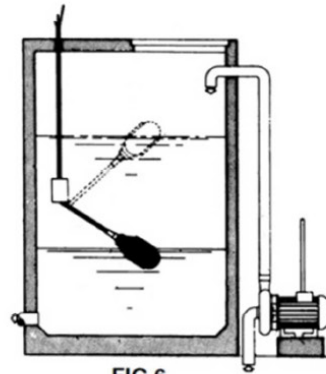


The wire that is not used must be correctly insulated

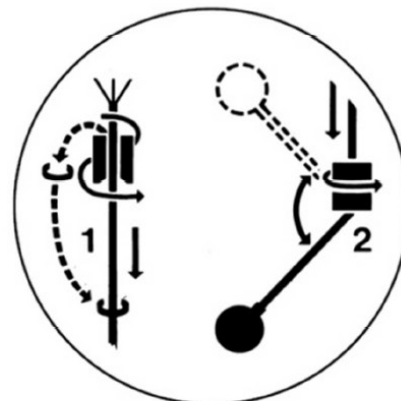
EMPTYING

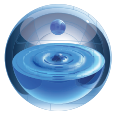


FILLING



INSTALLATION OF COUNTERWEIGHT





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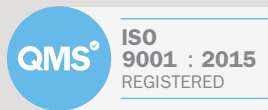
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