

Before installing the

product, check that

with those required.

the RATINGS correspond

CODE

max:

Year: 2009

/ / Hz:

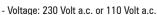
V00101101 230 / 50 - 60

16 A

#### User's manual

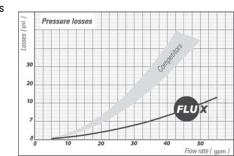
FLUX® is a device that starts and stops the pump to which it is fitted. The pump installed with positive suction head or water supplied with aqueduct is started when a tap is turned on to generate a flow and is stopped when the flow rate required is zero or less than the "shut-off flow rate" (Qa).

#### **Technical specifications**

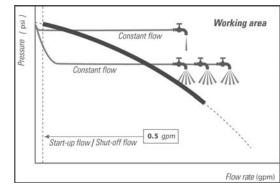


- Frequency: 50-60 Hz
- Maximum current: 16A
- Protection grade: IP 65
- Run/stop flow rate
- ( Qa ): 0.225-0.5 gpm
- Connections: 1"M NPT
- Operating pressure bursting pressure:
- 140 psi 570 psi
- Weight: 1180 g

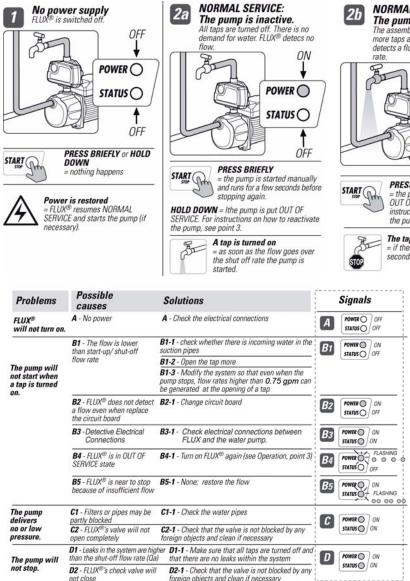




## Working area

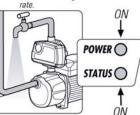






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instructions on how to reactivate

The taps are turned off = if there is no flow for a few seconds, the pump is stopped.



**OUT OF SERVICE** 

new command is given.

The pump has been stopped manually,

The pump will remain inactive until a

Flashing

0 010

POWER 🤇

STATUS C

3

= the pump resumes NORMAL SERVICE. See points 2a - 2b.

#### **Highly Recommended:**

- Do not alter the diameter of the inlet and outlet of the system. (Do not use diameter reduction for the pipes) - In case of ball valve ussage, it is highly recommended to install a full flow ball valve.

#### - FLUX® must be installed with a pressure reducer valve.

- Before installing the pump, be sure that the maximum flow of the water meter will not be exceeded (see reference below).

Reference:	
Meter Size	Flow (gpm)
5/8"	12gpm
3/4"	30 gpm
1″	40 gpm
1.5″	65 gpm

## STATEMENT OF COMPLIANCE

Under our exclusive responsibility, we hereby declare that this product is compliant with the following EU Directive and relevant implementing national regulations:

73/23/CEE, 89/336/CEE, EN 60730-2-6, EN 61000-6-3

> DGFLOW S.r.l. President - Amministratore Unico Stefano Concini

Bigarello 24.05.08

# **Operating conditions**

#### A. Compatible/non compatible fluids

FLUX® is suitable for use with clean water and chemically non-aggressive liquids. If the fluid contains impurities, a filter should be fitted upstream.

### **B. Environmental conditions**

FLUX® should not be used where there is the risk of an explosion. The temperature of the location should range between 32°C and 180°C, and the humidity should not exceed 90%.

## C. Power supply

Make sure that the variation in the power supply is never more or less than 10 % of the RATING value. Higher values may cause damage to the electronic components.

FLUX® can only be used with single-phase pumps.

## Safety regulations

Before installing or using FLUX®, read this manual carefully and thoroughly.

The pump should be installed and serviced by qualified personnel, responsible for making the hydraulic and electrical connections in compliance with the relevant regulations.

DGFLOW ® shall not be held liable for any damage relating to, or resulting from, an improper use of the product, or for any damage relating to, or resulting from, servicing or repairs carried out by unqualified personnel and/or with non-OEM spare parts. The warranty, which is valid for 24 months from the date of purchase, will no longer be applicable should the product suffer damage as a consequence of the use of non- OEM spare parts, tampering or improper use.

When starting the installation, check the following:

- The power supply is switched off.

- The power lines can withstand the maximum current.

- The cable bushings and circuit board cover have been properly assembled and secured (see Electrical Connections).

- The power supply is fitted with regulation earthing and safety devices.

When servicing the product, check the following:

- The system is not pressurised (turn a tap on) - The power supply is switched off.

**EMERGENCY STOP** 

• When in use, the pump can be stopped in the event of an emergency:

press START/STOP.

## FLUX® is put OUT OF SERVICE

#### Installation

#### **Preliminary checks**

Take the FLUX® out of the packaging and check the following: - Check for damages.

- Check that RATINGS correspond with those required.
- Check that cable bushings and screws are in place.

- Check FLUX®'s inlets and outlets to be clean and free of any packaging materials.

- Check valve that moves smoothly.

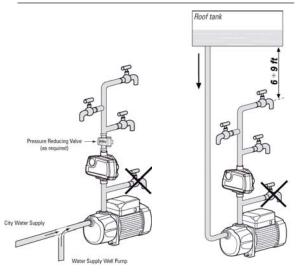
#### Hydraulic connections Orientation

FLUX® can be installed at any angle depending on the flow direction, as indicated in the diagrams.

### Position

FLUX® can either be fitted directly to the pump discharge or anywhere along the delivery or suction line, but in any case upstream outlet network .

No taps have to be installed between the pump and FLUX®.



#### First start-up **ATTENTION**

FLUX® has to be used with a pump installed with positive suction head or water supplied with aqueduct. In such conditions the priming starts automatically at the opening of any tap, shower, washing machine etc.

When the pump is turned off the system must be able to guarantee a flow not lower than 0.75 gpm, even when we use a tap at the highest level in the system.

#### **RUNNING DRY** = no flow.

It is caused by the lack of water; after 15 seconds FLUX® stops the pump.

When the water is back FLUX® RESUMES AUTOMATICALLY THE NORMAL SERVICE.

## Switching the pump on

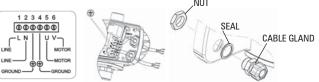
The red (Power) LED lights up; FLUX® instantly goes in standby and at the request of water starts the pump RUNNING (the green "Status" LED lights up).

15 seconds after the flow has become zero or got under the value 0.25gpm FLUX® stops the pump and goes in standby (only the red (Power) LED is on)

# **Electrical connections**

The electrical connections should be made as indicated in the diagram which can also be found on the inside of the circuit cover.



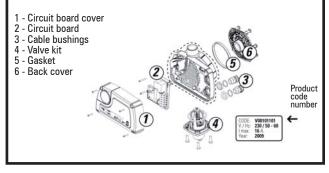


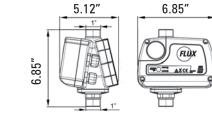
## ATTENTION

The cable bushings and circuit board cover must be properly assembled and secured in order to guarantee IP 65 grade protection of the electrical components.

# Parts Break Down

ATTENTION: when ordering spare parts, always state the position n° from the diagram below and the product code number found in the pressure-flow regulator technical data table.





## Disposal

STANDBY

POWER O ON

STATUS O OFF

POWER O ON

STATUS O ON

POWER O ON

STATUS O OFF

STANDBY

Size

When disposing of any FLUX® parts, adhere to the relevant laws and regulations in force in the country in which the equipment is being used. Do not dispose of any polluting parts in the environment.









