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O&M MANUAL

CAT5 KIOSK UNIT

POWERTANK

Water Boosting Systems

by Pedrollo Distribution

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Materials, components and approval references

Component	Material / specification	Approval / notes
Ball float valve	Incoming mains water connection	WRAS approval No. 2207415
Break tank	White polyethylene Water temperature: up to 70 °C	WRAS approval No. 2209508
Internal discharge pipework	Smooth-bore EPDM hose 304 stainless steel overbraid	WRAS approval No. 240202086
Pump: PQAm60	Body: PPS and brass Shaft: 316 stainless steel Impeller: brass	Not stated in the supplied material list
Controller: PRESFLO-MULTI	Protection rating: IP65	Material specification to be confirmed by Pedrollo
Inline strainer	Brass body Stainless steel mesh Fitted on the MCW inlet before the tank connection	WRAS approval No. 2309910

Follow all installation, operation and maintenance requirements to avoid invalidating the warranty.

General Installation

Site Location

Keep the unit upright during unloading and positioning. Use two people to carry it or a sack barrow to move it. Install the unit on a solid base that is level in all directions.

Provide access to all components and adequate space for servicing.

Support all connecting pipework independently to prevent strain or distortion of the unit.

Protect outdoor units from freezing if the optional frost-protection heater is not fitted. Frost damage is not covered by the warranty.

Water Supply

Use clean water free from foreign materials or chemicals. Suspended or dissolved substances must not block or damage internal pump components.

Fit a mains water filter at the inlet (supplied loose) to prevent debris blocking the float valve or causing overflows.

Electrical

Connect to the supplied fused spur with a suitable single-phase 230 V, 50 Hz supply.

All electrical work must be carried out by qualified personnel in accordance with current UK regulations. Refer to "Pump Operating Instructions" for detailed pump guidance.

Before use, open all three black-handled mini ball valves:

1) Mains water supply

2) Pump inlet

3) Pump outlet

Operation

Vent the pump before switching on the electrical supply.

The unit is tested and set before dispatch. To vent the pump, unscrew and remove the black vent plug on top of the pump and release all trapped air. Refit the plug, then switch on using the fused switch to the left of the pump.

The float-operated ball valve fills and controls the tank behind the pump. Water feeds the pump and controller. When pressure drops, the controller starts the pump to meet demand. If the tank runs out of water, the controller stops the pump and locks out operation.

The controller attempts to restart when the tank refills. To reset manually, first check that the tank has refilled, then press the stop/restart button. While the tank remains full, the pump starts and stops automatically as water is required.

Refer to the PRESFLO-MULTI instructions included in this manual for further controller information.

Maintenance

Service the unit twice a year. Check:

A) Accumulator air charge

B) Pump mechanical seal

C) Motor bearings

D) Water tank inlet valve

E) Cable connections

F) Controller operation and settings

For a service quotation, contact: **sales@pedrollo.co.uk** or call **01543 415200.**

EN Operating Instructions

These pumps are recommended for pumping clean water, water with a moderate impurity load (NGA, PRO-NGA, NGA-PRO, HF, NF) and chemically non-aggressive fluids. They must be used in compliance with local laws.

CAUTION! Before installation and use read the following instructions carefully. The manufacturer declines all responsibility in the event of accident or damage due to negligence or failure to observe the instructions described in this booklet or in conditions that differ from those indicated on the rating plate.
It also declines all responsibility for damage caused by improper use of the water pump.

SAFETY



Before carrying out checks or doing any maintenance, clear the system by disconnecting the voltage and unplug the pump from the socket.

Before installing the water pump, make sure that the power supply mains is earthed and complies with regulations.
During operation the motor can get hot: be careful.



They are not suitable for pumping inflammable liquids or for operating in places where there is danger of explosion.

Avoid contact between the power supply and the liquid to be pumped.
The water pump must never be lifted or transported by its supply cable.

The norm EN 60335-2-41 sets out what follows:

1) the pump used for cleaning and other swimming pool maintenance purposes should not be used when there are people in the pool and
must be operated through a residual current device (RCD) with a rated residual operating current not exceeding 30 mA.
2) the pump for outdoor fountains, garden ponds and similar places must be supplied through a residual current device (RCD) with a rated residual operating current not exceeding 30 mA.
3) for pumps meant to be used in swimming pools and pumps to be used for outdoor use the supply cord should not be any lighter than "H07 RN-F" (245 IEC 66 denomination).
The appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction. Children should be supervised to ensure that they do not play with the appliance.

PRELIMINARY INSPECTION

Unpack and check that it is in perfect condition.

CAUTION! Also check that the data on the rating plate correspond to the required data. If there is any problem contact the supplier immediately, specifying the type of fault.

CAUTION! If there is any doubt about the safety of the machine, do not use it.

CONDITIONS OF USE

The following conditions must be observed when using the water pump.
Maximum operating pressure: 10 bar (4 bar: AL-RED135) (6 bar: PK, PKS, PQ x P2=0÷0.50 kW) (6 bar: CP, CP-ST, HF x P2=0÷0.75 kW) (6 bar: AL-RED 600-610-620, HF5A, NGA1, NGA1-PRO, 2CP25/130N, 2-4CP, CK, CKR, FUTURE JET, JSW1-2, JCR1-2, PLURIJET60-80-100) (7 bar: PK70-80, PKS70-80, 2-5CR60-80-100) (8 bar: CP170-ST, CP170M-ST, AL-RED 650-660-670) (11 bar: MK, FCR90, HT & HT-PRO 3 x P2=0÷1.8 kW) (12 bar: FCR 15-30, HT & HT-PRO 15-30 x P2=0÷7.5 kW) (16 bar: HT & HT-PRO 3 x P2=2.2÷3 kW, 5-8-10 x P2=3÷5.5 kW, 15-30 x P2=9.2÷15 kW) (18 bar: PQ3000)
Ambient temperature up to +40°C (+50°C for PK60, PQ60, PKS60, PV)
Maximum liquids temperature allowed for materials used: +90 °C (+60 °C for PK-PKS) (+110°C per WR) (+40 °C for models with plastic impeller or other plastic components that comes into contact with liquids)
Voltage variation allowed: ±5% (if a field of nominal values is indicated, these are to be considered as minimum/maximum values allowed)
Uniform and continous level of acoustic pressure:
[≤ 75 dB(A) for P2 up to 2.2 kW] - [≤ 85 dB(A) for any other P2]
Make sure that the pump works in its rated operation range.

INSTALLATION

Installation can be a fairly complex operation.
It must therefore be carried out by competent and authorized installers.

CAUTION! **During installation apply all safety regulations issued by the competent authorities and use common sense at all times.**

Install the pump in a dry and well-aired place.
When an IPX5 grade water pump is installed in an environment which may cause the entry of water through the drain holes provided in the lower part of the motor, it is necessary that these holes are closed with appropriate plugs. With the appropriate bolts secure the pump to flat solid surfaces to avoid vibrations.
The pump MK, VL, VLE can be installed either vertically or horizontally. The pump must be installed in a horizontal position.

The suction diameter of the piping should be no less than the pump inlet diameter.
If the suction height is more than 4 metres, use a larger diameter.
The pipe must have a slight upward slope towards the suction inlet to avoid air getting trapped.
Make sure that the pipe is perfectly air-tight and that it is submerged at least 50 cm in the liquid to be pumped in order to avoid the formation of eddies.

CAUTION! The pump can be damaged if it operates with leaks in the suction pipes. A foot valve must always be fitted to the end of the suction tube.

The ejector unit should be installed in wells with diameter not less than 4", 3" or 2" according to the model.
It is connected to the pump body by means of two pipes with internal diameters no less than the internal diameters of the corresponding inlets and outlets.
A foot valve must always be fitted to the end of the ejector suction tube, submerged at least 50 cm in the liquid to be pumped in order to avoid the formation of eddies.
The flow rate and pressure available at the points of utilization depend on the diameter of the delivery pipe.
For installations with very long delivery pipes, leaks may be reduced by using a diameter greater than that of the pump outlet.
It is advisable to install a check valve after the pump delivery outlet so that maintenance can be carried out without having to empty the delivery pipe and also to avoid water hammering if the pump suddenly stops.
This is a necessary precaution when there is a water column of more than 20 metres on the delivery side.
Pipes should be anchored so that no stress of any type is transmitted to the pump.
When laying the pipes ensure that protruding seals and burrs inside do not reduce the cross-section required for passage of the flow.
Screw the pipes to the corresponding openings without forcing them in order not to cause damage.

ELECTRICAL CONNECTIONS

They are delivered ready to be connected.

CAUTION! **It is the installer's responsibility to perform the connections in compliance with the regulations in force in the country of installation.**



Make sure that there is no voltage at the line wire terminals before connecting.

Check that the data on the rating plate corresponds to the rated line values.



Connect up the pump (making sure that there is an efficient earth circuit) according to the diagram below the terminal box or on the identification plate.
The earth wire must be longer than the live wires, and must be the first wire to be connected when the pump is being set up and the last to be disconnected during disassembly.
If a pump is not equipped with a supply cord and a plug, the power supply network should include a cut-off device or system having a contact separation of at least 3 mm in all poles. If a pump is provided with a supply cord and a plug, the pump must be positioned so that the plug is accessible.
It is advisable to install a residual current device (RCD) with a rated residual operating current not exceeding 30 mA.
A thermal overload cutout in the winding protects against voltage overload in the single-phase pump motors up to 1.50 kW.
Three-phase motors must be protected by the user.

Three-phase motors should be installed with a thermal magnetic circuit breaker (C Tripping characteristic curves IEC 60898-1) suitable for use with the current indicated on the pump data plate. If the pump is not fitted with a power cable and plug, foresee the use of a device capable of ensuring the total disconnection of power in the event of category III over voltage.

For three-phase motors, check that the rotation direction is clockwise by looking at the pump from the fan side. If not, invert two of the phases.

For three-phase motors (VL, VLE) the rotation direction may be inverted; in this case performance is much lower than the rated values.

In order to check whether the connection is correct, proceed as follows:

a) pump to be installed: when started up, the pump tends to rotate in an anticlockwise direction seen from above;

b) pump installed and submerged in the fluid to be pumped: measure the current absorbed by the pump when working using a snap-on ammeter; if the direction of the rotation is incorrect, the values will be approximately double those indicated on the rating.

To invert the direction of rotation simply invert two of the phases.

PRIMING

CAUTION! Dry operation of the pump will damage the mechanical seal.

This operation is performed via the priming plug, by filling the pump casing (as well as the suction pipe for no self-priming pumps) with the liquid to be pumped in.At the end of the operation, screw the plug back on and start the pump.

CAUTION! If, after about ten minutes the pump (PKS, CK, CKR, JSW, SKR, JCR, JDW, BETTY, PLURIJET, FUTURE JET) is still not primed, switch it off and repeat the operation.

Priming must be repeated whenever the pump has not been used for a long time or, for no self-priming pumps, when air has entered in the system.

MAINTENANCE

Before doing anything, make sure that the pump is disconnected from the power source and that there is no possibility of accidental connections.

Repair of the pump by personnel not authorized by the manufacturer will render the guarantee null and void and will entail operating with potentially dangerous equipment.

CAUTION! Any tampering may lead to performance being reduced and danger to persons and/or things.

The pumps do not require any maintenance as long as the following precautions are taken:
Where there is the risk of freezing, empty the pump and remember to re-prime when used again
Frequently check that the foot valve (check valve for PKS) is clean
If the pump is not going to be used for a long time (for example, in winter), it is advisable to empty it completely, rinse it with clean water and store in a dry place

CAUTION! The loss of any lubricant contained within the pump will not result in the contamination of the pumped liquid.

CAUTION! The apparatus is not intended for use by people (children included) with reduced physical, sensorial or mental capabilities, or by those lacking the required experience or knowledge unless supervised or instructed in the use of the apparatus by a person responsible for their safety. Children should be supervised in order to ensure that they do not play with the apparatus.

DECLARATION OF CONFORMITY

We hereby declare, under our exclusive responsibility, that the product in question complies with the previsions of the following community directives, including the latest amendments, and with the related assimilated national legislation:

2006/42/EU, 2014/35/EU, 2014/30/EU, 2009/125/EU, 547/2012/EU, 2011/65/EU, 2015/863/EU

UK legislation: **2008 No. 1597, 2016 No. 1101, 2016 No. 1091, 2019 No. 539, 2012 No. 3032**

Pedrollo S.p.A.
Il Presidente
Silvano Pedrollo

San Bonifacio, 30/11/2023

USER'S MANUAL

IT **EN** ES FR DE RU

ELECTRONIC PUMP CONTROLLER

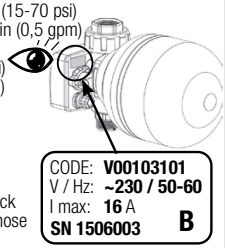
PRESFLO® is a device that starts and stops the pump to which it is fitted, thus replacing traditional pressure switch / surge tank systems.
The pump is started when, as a tap is turned on, the pressure within the system drops below the "start-up pressure" (Pm), and is stopped when the flow rate required is zero or less than the "shut-off flow rate" (Qa).
The electronics of PRESFLO® protects the pump against abnormal running conditions such as dry running, repeated start-ups due to leaks in the system or overcurrents.



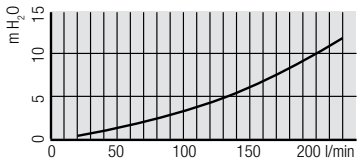
Technical specifications

- Voltage: ~ 230 V / ~ 115 V
- Frequency: 50-60 Hz
- Current: 16A max for 3 sec.
- Protection grade: IP 65
- Start-up pressure (Pm): 1÷5 Bar (15-70 psi)
- Shut-off flow rate (Qa): 2 litres/min (0,5 gpm)
- Connections: 1"M BSP / 1"M NPT
- Operating pressure: 8 bar (120 psi)
- Bursting pressure: 24 bar (350 psi)
- Weight: 1600 g
- Protection against: dry running (automatic restart), repeated start-ups, overcurrents
- Max liquid temperature: 55°C

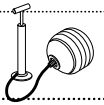
Before installing, the product, check that the RATINGS correspond with those required.



Losses

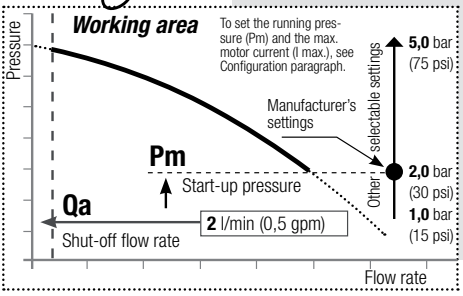


Water accumulator pressure.
Should be inflated to a value 0,5 bar lower than the running pressure.



Operating conditions

A. Compatible/non compatible fluids
PRESFLO® 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
PRESFLO® should not be used where there is the risk of an explosion. The temperature of the location should range between 0°C and 40°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.
PRESFLO® can only be used with single-phase pumps.



Safety regulations

Before installing or using PRESFLO®, 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.
PEDROLLO S.p.A. 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.

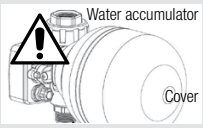
Emergency Stop
When in use, the pump can be stopped in the event of an emergency:
press STOP/RESTART.





PRESFLO® is put OUT OF SERVICE.

For no reason, disassemble the water accumulator with the system pressurized.



Installation

Preliminary checks

Take the PRESFLO® out of the packaging and check the following:
- check for damage,
- check the RATINGS correspond with those required,
- that the cable bushings and screws are in place,
- that PRESFLO®'s inlets and outlets are clean and free of any packaging materials,
- that the check valve moves smoothly.

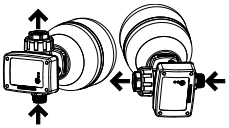
Hydraulic connections

the joint in two pieces allows rapid connection to the system. DO NOT apply sealant inside the 2-piece joint because it already has an internal o-ring.



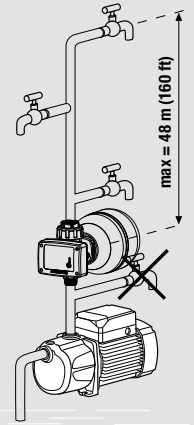
Orientation

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



Position

PRESFLO® can either be fitted directly to the pump outlet or anywhere along the delivery line. Never install taps between the pump and PRESFLO®. Do not install a non-return valve between PRESFLO® and the taps, meanwhile it is possible, although not necessary, to install a non-return valve on the suction piping of the pump.

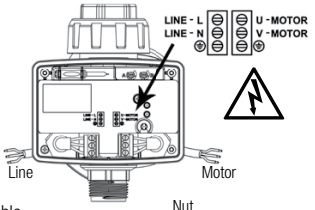


Attention
The pressure applied by the water column above PRESFLO® must not exceed that of the pump start-up pressure (Pm). If, for example, PRESFLO® is installed at a height 20 metres (65 ft) below that of the highest tap in the system, the pressure detected by PRESFLO® will be approximately 2 bar (30 psi). A model with Pm = 2.5 – 35 psi bar should, therefore, be installed in order to guarantee that the pump is started when a tap is turned on.

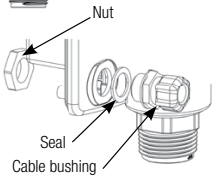
Attention
The maximum pressure produced by the pump must be at least 0.5 bar (7 psi) higher than the start-up pressure (Pm). If the pressure produced by the pump is too low, PRESFLO® will stop the pump and indicate a 'dry running' error message.

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.



First start-up

Priming the pump

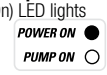
For instructions on how to prime (fill) the pump, see the pump manual.

Attention

PRESFLO® is fitted with a check valve: do not use the PRESFLO®'s outlet to fill the pump for priming.

Switching the pump on

The red (Power On) LED lights up; PRESFLO® instantly detects that there is no pressure within the system and starts the pump (the green 'Pump On' LED lights up). If, within 15 seconds of starting up, PRESFLO® does not detect the correct priming of the pump, it stops the pump and indicates a 'dry running' error message.





Attention

When the pump is started for the first time, it may have to be run for longer in order to complete the priming procedure.

Press the STOP/RESTART button

to restart the pump and complete the priming procedure.



NOTE 1 - DRY RUNNING = there is no flow and the pressure is lower than that of the pump start-up pressure (Pm). It occurs when there is no water. After 15 seconds PRESFLO® stops the pump and indicates an ERROR message. PRESFLO® AUTOMATICALLY tries to resume NORMAL SERVICE at intervals of increasing time (1, 15, 30, 60 minutes and successively once every hour - 24 H for AU/NZ -). If PRESFLO® detects any pressure and/or flow, NORMAL SERVICE is resumed, otherwise, the pump is stopped again until the next attempt is made. A MANUAL attempt to resume NORMAL SERVICE can be made at any time.

NOTE 2 - FREQUENT START-UP = the repeated stopping and starting of the pump at intervals of less than 1 minute from each other. This occurs when the flow rate is less than 2 litres/min. This may cause damage to the pump. In event of small leaks (dripping), PRESFLO®'s water accumulator guarantees that the pump starts/stops at time intervals of over 1 minute (less than 60 starts/hour) and that FREQUENT START-UP errors do not occur. In the event of a major leak or extended use at excessively low flow rates (less than 2 litres/min), the pump may be started/stopped as often as once every few seconds, putting the pump at risk of damage. In this case, after about 40 minutes, PRESFLO® stops the pump for the following 30 minutes (in order to let it cool down) and indicates an ERROR message. If the time interval between the starts-stops is more than 10 seconds (and therefore poses less of a risk to the pump), PRESFLO® will allow the pump to be used for more than 30 minutes. Once that enough time has passed to allow the pump to cool down it is restarted AUTOMATICALLY. The pump may be restarted MANUALLY any time.

NOTE 3 - OVERCURRENT = electric absorption of the pump (in Ampere) exceeding the max. allowed (I max). By means of the configuration, it is possible to set the max. current allowed (I max). During the start-up phase of the pump PRESFLO® allows for a few seconds the current to exceed the Imax value. If the absorptions remain above the set Imax value, PRESFLO® stops the pump to avoid damaging the motor and signals an anomaly. PRESFLO® will not automatically restart the pump. The pump may be MANUALLY restarted at any moment. Should the problem persist an anomaly will again be signalled. The manual restart can be repeated several times since PRESFLO® does not limit the number of attempts.

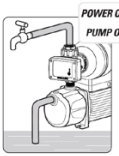
NOTE 4 - SHUT-OFF FLOW RATE = Flow rate (Qa) of around 2 litres/min (0,5 gpm) below which PRESFLO® stops the pump.

Controller Specific Instructions & Troubleshooting



Operation: Presflo Multi - Fixed Speed Controller

1 No power supply

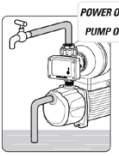


PRESFLO® is switched off.

Press briefly or hold down = nothing happens

Power is restored = PRESFLO® resumes NORMAL SERVICE & starts the pump (if necessary).

2a NORMAL SERVICE: the pump is inactive.



The system is pressurised. All taps are turned off. There is no demand for water. PRESFLO® detects an assembly pressure higher than that of the start-up pressure (Pm) and no flow.

Press briefly = the pump is started manually and runs for a few seconds before stopping again.

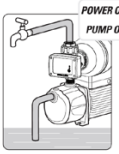
Hold down = the pump is put OUT OF SERVICE.

For instructions on how to reactivate the pump, see point 3.



A tap is turned on = as soon as the pressure falls below the start-up pressure (Pm), the pump is started.

2b NORMAL SERVICE: the pump is running



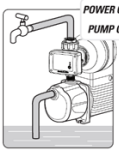
The assembly requires water. One or more taps are turned on. PRESFLO® detects a flow; the assembly pressure is normally higher than the START-UP pressure, but it may also be lower.

Press briefly or **hold down** = the pump is stopped and put OUT OF SERVICE. For instructions on how to reactivate the pump, see point 3.



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

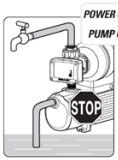
2c NORMAL SERVICE: pump during shutdown



The system has just ceased to require water. All taps are closed. The pump is still in operation. Th system is pressurised. PRESFLO® detects a system pressure higher than the start-up pressure (Pm) and no flow.

Press briefly or **hold down** = the pump is stopped and put in STAND-BY. To reset see point 3. If the absence of flow lasts for a few seconds the pump is stopped.

3 Out of service



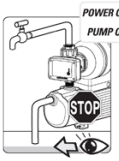
The pump has been stopped manually.

The pump will remain inactive until a new command is given.

Press briefly = nothing happens

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

4a ERROR: stopped temporarily due to DRY RUNNING

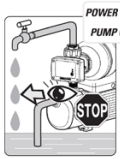


PRESFLO® has detected that the pump is dry running and has therefore stopped it TEMPORARILY.

Press briefly = the pump is started and manually and resumes NORMAL SERVICE. See points 2a - 2b.

Hold down = the pump is put OUT OF SERVICE. For instructions on how to reactivate the pump, see point 3.

4b ERROR: temporary shut down due to FREQUENT START UP

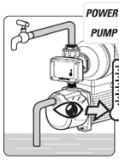


PRESFLO® has detected that the pump is starting-up too often and has therefore stopped it TEMPORARILY.

Press briefly = the pump is started and manually and resumes NORMAL SERVICE. See points 2a - 2b.

Hold down = the pump will not restart and goes OUT OF ORDER. The pump is put OUT OF SERVICE. For instructions on how to reactivate the pump, see point 3.

4c ERROR: stop due to overload



PRESFLO® has detected a current exceeding the max. allowed and has stopped the pump.

Press briefly = the pump is started and manually and resumes NORMAL SERVICE. See points 2a - 2b.

Hold down = the pump is put OUT OF SERVICE. For instructions on how to reactivate the pump, see point 3.

Off ○ On ● Flashing ✹

Controller Specific Instructions & Troubleshooting



Trouble Shooting: Presflo Multi - Fixed Speed Controller

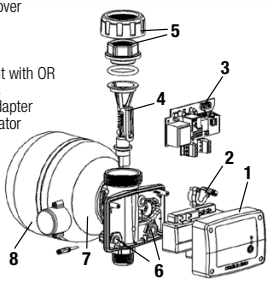
Problems	Signals	Possible causes	Solutions
PRESFLO® will not turn on	POWER ON ● PUMP ON ●	No power	Check the electrical connections
The pump will not start when a tap is turned on	POWER ON ● PUMP ON ●	PRESFLO® model with an inadequate start-up pressure (Pm) for the chosen application	Relocate PRESFLO® to another position
			Install a model with a higher start-up pressure (Pm)
	POWER ON ● PUMP ON ●	Faulty electrical connections or pump out of service	Check the electrical connections and that the pump is working
	POWER ON ☀ ●●●●● PUMP ON ●	PRESFLO® "STAND-BY""	Reset PRESFLO® (See Operation, point 3).
	POWER ON ☀ ●●●●● PUMP ON ☀ ● ●	PRESFLO® in temporary shut down due to "DRY RUNNING" due to lack of water	Wait for the automatic restart or press START to restart manually (See Operation, point 4a)
		Maximum pump pressure is insufficient	Replace the pump with one with more suitable characteristics
			Install a model with a lower start-up pressure (Pm)
	POWER ON ☀ ●●●●● PUMP ON ☀ ●● ●●	PRESFLO® in temporary shut down due to "FREQUENT START-UP"	Wait for the automatic restart or press START to restart manually (See Operation, point 4b). Remove any cause of leakage from system or install an expansion tank
	POWER ON ☀ ●●●●● PUMP ON ☀ ●●● ●●●	PRESFLO® stops due to "OVERCURRENT"	Check if the setting of the maximum current (Imax) is congruent with the data of the pumps' ratingplate. If after manually restarting the pump after correctly setting PRESFLO®, it again signals an anomaly, check that the motor has no mechanical or electrical problems.
The pump delivers no or low pressure	POWER ON ● PUMP ON ●	Filters or pipes may be partly blocked	Check the water pipes
		PRESFLO®'s valve will not open completely	Check that the valve is not blocked by any foreign objects and clean if necessary
The pumps stops and starts repeatedly	POWER ON ● PUMP ON ● ↘ ↗ POWER ON ● PUMP ON ●	Leaks within the system (less than the shut-off flow rate Qa)	Check the hydraulic connections and repair any leaks. If a leak cannot be repaired, install an expansion tank
The pump will not stop	POWER ON ● PUMP ON ●	The flow rate is higher than the shut-off flow rate (Qa)	Make sure that all taps are turned off and that there are no leaks within the system
		PRESFLO®'s check valve will not close or is damaged	Check that the valve is not blocked by any foreign objects and clean if necessary

On ● Off ● Flashing ☀

Exploded view of spare parts

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.

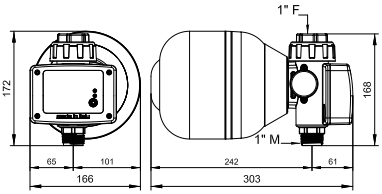
1 - Circuit board cover
2 - Sensor kit
3 - Circuit board
4 - Valve kit
5 - Two-pieces joint with OR
6 - Cable bushings
7 - Accumulator adapter
8 - Water accumulator



CODE: **V00103101**
V / Hz: **~230 / 50-60**
I max: **16** A
SN 1506003 **B**

← **Article**
← **Version**

Dimensions



Configuration

Settable parameters:

- Running pressure.
When the pressure in the system falls below the Pm, PRESFLO® starts-up the pump. **The Pm should always be higher by at least 0.2 – 0.3 bar of the pressure generated by the column of water overlooking PRESFLO®.**
The Pm value can be carried in the field between 1 bar and 5 bar.

- Maximum current allowed.
PRESFLO® is fitted with a current sensor, which continually detects the absorption of the pump. If the current remains above the set Imax value for a significant period of time, PRESFLO® stops the pump to protect it from damages (LOCK condition for OVERCURRENT). PRESFLO® nevertheless allows the Imax to be exceeded for short periods during the pump start-up phase.
For correct functioning, the Imax should be set at a value higher by approx. 10 – 20% to the maximum absorption of the pump (normally indicated on the rating plate of the motor).

If this rating value is not known, it s better to leave the standard Imax value (16A) to avoid that the pump stops also in normal absorption conditions.

The Imax value may be varied in the field between 4A and 16A.

Manufacturer's setting:

PRESFLO® is supplied with the following STANDARD CONFIGURATION:
- Running pressure
  Pm = 2 (bar)
- Max. current allowed
  I max = 16 (A)

Configuration

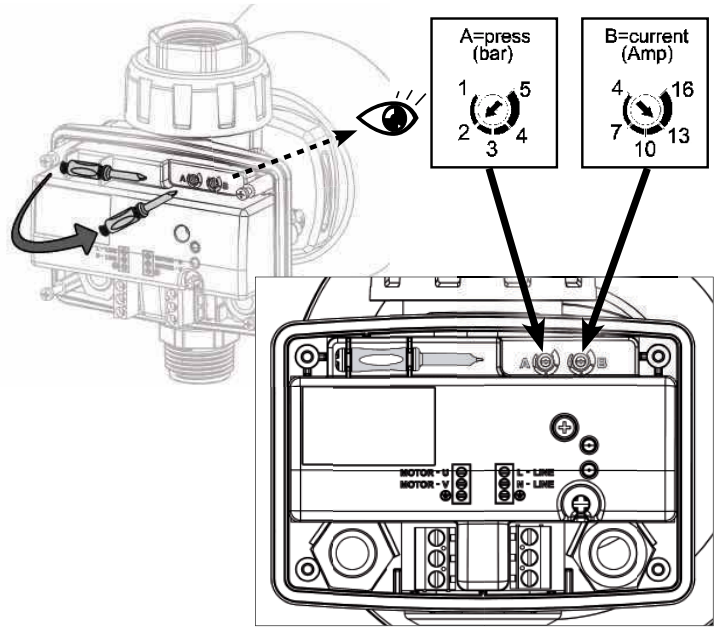
The adjustment of the starting pressure (Pm) and the maximum permissible current (I max) is done by means of two trimmers shown in FIG.

1. Remove the small screwdriver and adjust the trimmer on the desired limits, according to the values shown on the plate located under the screwdriver.

2. The start-up pressure can be adjusted continuously from 1 to 5 bar (trimmer A)

3. The maximum permissible current can be adjusted continuously from 4 to 16 A (trimmer B)

4. When you finish adjustment close the cover



Disposal
When disposing of any PRESFLO® 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.



Statement of Compliance: we declare, under our own responsibility, that the product in question is in compliance with the following European Directives and national implementation provisions

2014/35/CE, 2011/65/CE, 2012/19/CE, 2003/108/CEE, 2014/30/CE,
EN 60730-2-6, EN 61000 6-3

UK legislation:
2016 No. 1101, 2012 No. 3032, 2016 No. 1091

San Bonifacio 01/07/21

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Il Presidente
Silvano Pedrollo

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