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2 MACHINE AND MANUFACTURER IDENTIFICATION

AVAILABLE MODELS: By-pass 3000 12 - 24 Vdc, Carry 3000, Battery kit 3000

CODE PRODUCT: F00335000, BYPASS 3000, MADE IN ITALY

MODEL: 12V, 24V, 24V, 24V

TECHNICAL DATA: DANGER, CE, UKCA, USA, CANADA

MANUFACTURER: Piusi S.p.A., Via Pacinotti 16/A, Z.I. Rangavino, 46029 Suzzara (Mantova) Italy

3 FACSIMILE COPY OF EU DECLARATION OF CONFORMITY

The undersigned Piusi S.p.A. Via Pacinotti 16/A, Z.I. Rangavino, 46029 Suzzara - Mantova - Italy

HEREBY STATES under its own responsibility that the equipment described below: Description : PUMP INTENDED FOR DIESEL FUEL TRANSFER Model: BY-PASS 3000 12 - 24 VDC / CARRY 3000 / BATTERY KIT 3000 Serial number: refer to Lot Number shown on CE plate affixed to product Year of manufacture: refer to the year of production shown on the CE plate affixed to the product

complies with the following legislation:
 - Machinery Regulations
 - Electromagnetic compatibility

The technical file is at the disposal of the competent authority following motivated request at Piusi S.p.A. or following request sent to the e-mail address: dac.te@piusi.com

THE ORIGINAL DECLARATION OF CONFORMITY IS PROVIDED SEPARATELY WITH THE PRODUCT

4 MACHINE DESCRIPTION

PUMP: Self-Priming, volumetric, rotating vane pump, equipped with by-pass valve.

MOTOR: Brush motor, DC, low tension with intermittent cycle, closed type in protection class IP55 according to CEI-EN 60034-5, directly flanged to the pump body.

4.1 MOVING AND TRANSPORT: Due to the limited weight and dimensions of the pumps, special lifting equipment is not required to handle them. The pumps are carefully packed before dispatch. Check the packing when receiving the material and store in a dry place.

STORAGE: Store in a covered and dry place. Store the unit away from dirt and vibration

ENVIRONMENTAL CONDITIONS: Storage humidity: Max 90%; Storage temperature: min +0°C, Max +50°C

PACKAGING: The pump is equipped comes packed suitably for shipment. On the packaging a label shows the following product information

- name
 - code
 - weight

MODEL	WEIGHT (Kg)	PACKAGING DIMENSION (mm)
BY-PASS 3000	3,5	200 x 120 x 140
CARRY 3000	4,2	260 x 235 x 164
BATTERY KIT 3000	7,8	300 x 300 x 180

5 GENERAL WARNINGS

Warnings: To ensure operator safety and to protect the dispensing system from potential damage, workers must be fully acquainted with this instruction manual before attempting to operate the dispensing system.

The following symbols will be used throughout the manual to highlight safety information and precautions of particular importance.

ATTENTION: This symbol indicates safe working practices for operators and/or potentially exposed persons.

WARNING: This symbol indicates that there is risk of damage to the equipment and/or its components.

NOTE: This symbol indicates useful information.

Manual preservation: This manual should be complete and legible throughout. It should remain available to end users and specialist installation and maintenance technicians for consultation at any time. All reproduction rights are reserved by Piusi S.p.A. The text cannot be reproduced without the written permission of Piusi S.p.A.

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6 SAFETY INSTRUCTIONS

Mains - preliminary checks before installation: You must avoid any contact between the electrical power supply and the fluid that needs to be FILTERED.

Before any checks or maintenance work are carried out, disconnect the power source.

To help prevent fire and explosion: Use equipment only in well ventilated area. Keep work area free of debris, including rags and spilled or open containers of solvent and gasoline. Do not plug or unplug power cords or turn lights on or off when flammable fumes are present. Ground all equipment in the work area. Stop operation immediately if static sparking occurs or if you feel a shock. Do not use equipment until you identify and correct the problem. Keep a working fire extinguisher in the work area.

ELECTRIC SHOCK: Turn off and disconnect power cord before servicing equipment. Ensure ground prongs are intact on power and extension cords. Outdoors, use only extensions suitable for the specific use, in accordance with the regulations in force. The connection between plug and socket must remain away from water. Never touch the electric plug of socket with wet hands. Do not turn the device on if the power connection cord or other important parts of the apparatus are damaged, such as the inlet outlet plumping, dispensing nozzle or safety devices. Replace damaged components before operation.

As a general rule of electrical safety it is always recommended to power the device by protecting the line with:
 - magnetothermic switch / disconnecter with a current capacity suitable for the electric line.

EQUIPMENT MISUSE: Do not operate the device when fatigued or under the influence of drugs or alcohol. Do not leave the work area while device is energized or under pressure. Turn off all device when not in use. Do not alter or modify the device. Alterations or modifications may void agency approvals and create safety hazards. Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not kink or over bend hoses or use hoses to pull device. Keep children and animals away from work area. Comply with all applicable safety regulations. Do not exceed the maximum operating pressure or the temperature of the part with lower nominal value of the system. See Technical Data in all equipment manuals. Use fluids and solvents that are compatible with the wetted part of the system. See Technical Data in all equipment manuals. Read the manufacturer's instructions of the fluids and solvents. For more information on the material, request the safety data sheet (MSDS) from the distributor or dealer. Check the device every day. Immediately repair or replace worn or damaged parts - only with original spare parts of the manufacturer. Make sure the equipment is classified and approved compliant with the standards of the environment where it is used. Use the equipment only for the intended use. Contact your distributor for more information. Keep hoses and cables far from traffic areas, sharp edges, moving parts and hot surfaces. Do not bend or over bend the hoses or use the hose to pull the device. Read MSDS's to know the specific hazards of the fluids you are using. Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines. Prolonged contact with the treated product may cause skin irritation; always wear protective gloves during dispensing.

Electrocution or death.

Electrocution or death.

Electrocution or death.

7 FIRST AID RULES

SMOKING PROHIBITED: When operating the dispensing system and in particular during refuelling, do not smoke and do not use open flame.

TOXIC FLUID OR FUMES HAZARD: Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines. Prolonged contact with the treated product may cause skin irritation; always wear protective gloves during dispensing.

8 GENERAL SAFETY RULES

Essential protective equipment characteristics: Wear protective equipment that is suited to the operations that need to be performed; resistant to cleaning products.

Personal protective equipment that must be worn: safety shoes; close-fitting clothing; protective gloves; safety goggles; Instruction manual

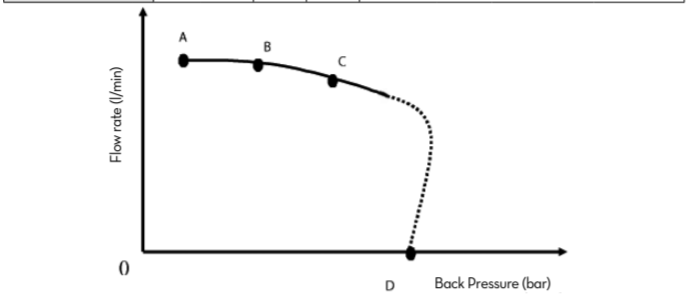
Other Equipment: Instruction manual

Protective gloves: Prolonged contact with the treated product may cause skin irritation; always wear protective gloves during dispensing.

9 TECHNICAL DATA

9.1 PERFORMANCE SPECIFICATIONS
 The performance diagram shows flow rate as a function of back pressure.

Functioning Point	Flow Rate	Typical Delivery Configuration			
		Voltage (V)	Absorption (A)	K33 Meter	Automatic dispensing nozzle
A (Maximum Flow Rate)	50	12 15	8	*	*
B (High Flow Rate)	48	12 16	*	*	*
C (Rated Conditions)	46	12 17	*	*	*
D (By pass)	0	12 21	Delivery Closed		



ATTENTION: The curve refers to the following operating conditions: Fluid Temperature 20°C. The tube and the pump position relative to the fluid level is such that a pressure of 0.3 bar is generated at the nominal flow rate. Under different suction conditions higher pressure values can be created that reduce the flow rate compared to the same back pressure values. To obtain the best performance, it is very important to reduce loss of suction pressure as much as possible by following these instructions:
 - Shorten the suction tube as much as possible
 - Avoid useless elbows or throttling in the tubes
 - Keep the suction filter clean
 - Use a tube with a diameter equal to, or greater than, indicated (see installation)

10 ELECTRICAL SPECIFICATIONS

PUMP MODEL	FUSES	ELECTRICAL POWER		CURRENT
		Current	Voltage (V)	
VERSION 12V	25 DC	12	22	12
VERSION 24V	15 DC	24	22	12

(*) referred to operations in by-pass mode

11 OPERATING CONDITIONS

11.1 ENVIRONMENTAL CONDITIONS
TEMPERATURE: min. +23°F / max. +104°F, min. -5°C / max. +40°C
RELATIVE HUMIDITY: max. 90%
ATTENTION: The temperature limits shown apply to the pump components and must be respected to avoid possible damage or malfunction.

ATTENTION: IN INADEQUATE ENVIRONMENTAL CONDITIONS, SOME PARTS OF THE PUMP MAY PRESENT ANY SIGNS OF OXIDATION WHICH DO NOT AFFECT THE CORRECT FUNCTIONING OF THE PUMP.

11.2 ELECTRICAL POWER SUPPLY

NOTE: N.B. THE PUMP SHOULD BE POWERED BY A SAFE SOURCE; BATTERY OR POWER SUPPLY 12/24V WITH SAFETY TRANSFORMER. In accordance with the model, the pump must be powered by a direct current line, the nominal values of which are indicated on the table in the paragraph "ELECTRICAL SPECIFICATIONS". The maximum acceptable variations from the electrical parameters are:
 Voltage: +/- 10% of the nominal value
Power supply from lines with values that do not fall within the indicate limits could cause damage to the electrical components and reduction of working performance.

11.3 DUTY CYCLE

NOTE: The pumps have been designed for intermittent use and a 30-minute duty cycle under conditions of maximum back pressure.

ATTENTION: Functioning under by-pass conditions is only allowed for short periods of time (max. 3 minutes).

11.4 FLUIDS PERMITTED / FLUIDS NOT PERMITTED

FLUIDS PERMITTED: DIESEL FUEL at a viscosity of from 2 to 5.35 cSt (at a temperature of 37.8°C), Minimum Flash Point (PM), 55°C, according to UNI EN 590
 - Paraffinic HVO/XTL-EN 15940
 ONLY FOR BIO DIESEL VERSIONS F00342BX (BIO):
 - BIO DIESEL B0 (B10) according to UNI EN 14214
 - BIO DIESEL B20/B30 according to EN 16709

FLUIDS NON PERMITTED AND RELATED DANGERS:
 - GASOLINE - FIRE - EXPLOSION
 - INFLAMMABLE LIQUIDS with PM < 55°C - FIRE - EXPLOSION
 - LIQUIDS WITH VISCOSITY > 20 cSt - MOTOR OVERLOAD
 - WATER - PUMP OXIDATION
 - FOOD LIQUIDS - CONTAMINATION OF THE SAME
 - CORROSIVE CHEMICAL PRODUCTS - PUMP CORROSION - INJURY TO PERSONS
 - SOLVENTS - FIRE - EXPLOSION - DAMAGE TO GASKET SEALS

12 INSTALLATION

12.1 PRELIMINARY INSPECTION

- Verify that all components are present. Request any missing parts from the manufacturer
- Check that the machine has not suffered any damage during transport or storage
- Carefully clean the suction and delivery inlets and outlets, removing any dust or other packaging material that may be present
- Make sure that the motor shaft turns freely
- Check that the electrical data corresponds to those indicated on the data plate
- Always install in an illuminated area
- Install the pump in ventilated place to avoid any vapours accumulation
- We recommend that a suction filter be used

12.2 POSITIONING THE PUMP

The pumps can be installed in any position (with pump axis in vertical or horizontal position). The pump must be securely attached by means of the provided fixing bracket and fixing screws. **THE MOTORS ARE NOT OF THE ANTI-EXPLOSIVE-TYPE. DO NOT INSTALL them where inflammable vapours could be present.** It is the responsibility of the installer to provide the necessary line accessories to ensure the correct and safe operation of the pump. The accessories that are not suitable to be used with the previously indicated material could damage the pump and/or cause injury to persons, as well as causing pollution. To maximise performance and prevent damage that could affect pump operation, always demand original accessories.

12.3 NOTES ON SUCTION AND DELIVERY LINES

DELIVERY: The selection of the pump model must be made taking into account the characteristics of the system. The combination of the length of the pipe, the diameter of the pipe, the flow rate of the diesel or other liquid, as well as the accessories installed on the line, could create back pressure that are greater than the maximum predicted pressure, thereby causing the pump's electronic controls to intervene and reducing the dispensed flow considerably. In these cases, to guarantee correct operation of the pump, it is necessary to reduce the resistance of the system using pipes that are shorter or that have a greater diameter, as well as line accessories with smaller resistances (e.g. an automatic dispensing nozzle with greater flow rate capacity).

SUCTION: The self-priming pumps have a good suction capability. During the start-up phase, when the suction pipe is empty and the pump is wet with the fluid, the electric pump unit is able to suck liquid from a maximum vertical distance of 2m. It is important to note that it could take up to 1 minute for the pump to prime and that the presence of an automatic dispensing nozzle on the delivery side will prevent the air trapped during the installation from being released and, therefore, the correct priming of the pump.

ATTENTION: It is always advisable to prime the pump without an automatic delivery nozzle, verifying the proper wetting of the pump. Always install a foot valve to prevent the suction pipe from being emptied and to keep the pump wet at all times. In this way, the pump will always start up immediately the next time it is used. When the system is in operation, the pump can operate with back pressures of up to 0.5 bars on the suction inlet; beyond this point, the pump may begin to cavitate resulting in a drop of the flow rate and an increase in the noise levels of the system. In light of this, it is important to guarantee small back pressures on the suction side, by using short pipes with diameters that are equal to or larger than those recommended, reducing bends to a minimum, and using filters with a large cross-section and foot valves with minimum possible resistance on the suction side.

ATTENTION: It is important to keep the suction filters clean because, when they become clogged, they increase the resistance of the system. The vertical distance between the pump and the fluid must be kept as short as possible, and it must fall within the 2m maximum required for priming. If the distance is greater, a foot valve must be installed to allow the suction pipes to fill up and the diameter pipes must be larger. It is however recommended that pump not be installed if the vertical distance is greater than 3m.

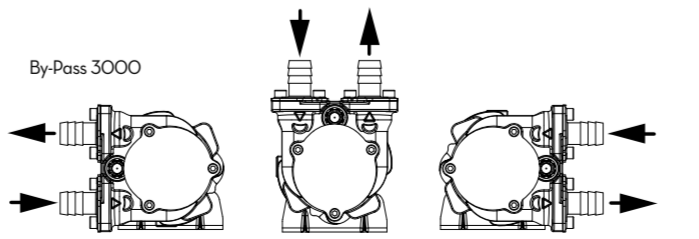
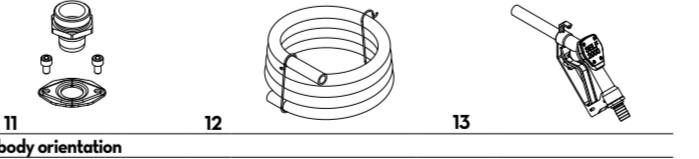
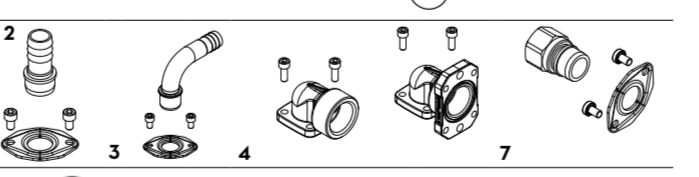
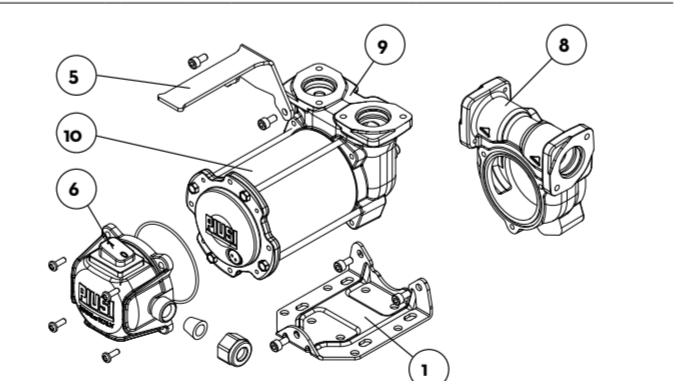
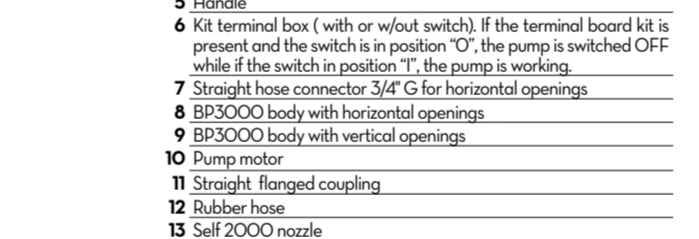
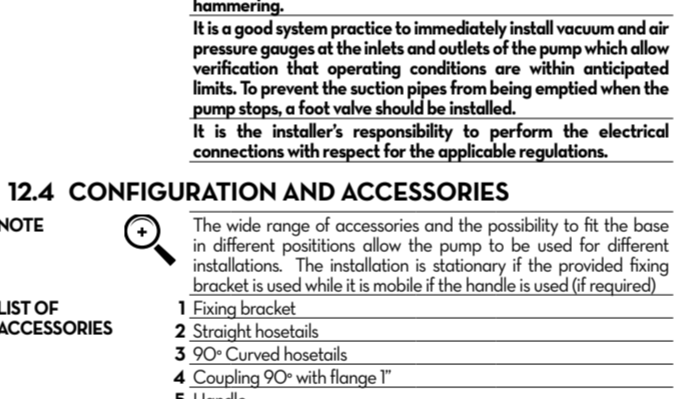
ATTENTION: If the suction tank is higher than the pump, an anti-siphon valve should be installed to prevent accidental product leaks. Size the installation to contain the back pressures caused by water hammering.

ATTENTION: It is a good system practice to immediately install vacuum and air pressure gauges at the inlets and outlets of the pump which allow verification that operating conditions are within anticipated limits. To prevent the suction pipes from being emptied when the pump stops, a foot valve should be installed. It is the installer's responsibility to perform the electrical connections with respect for the applicable regulations.

12.4 CONFIGURATION AND ACCESSORIES

NOTE: The wide range of accessories and the possibility to fit the base in different positions allow the pump to be used for different installations. The installation is stationary if the provided fixing bracket is used while it is mobile if the handle is used (if required).

LIST OF ACCESSORIES:
 1 Fixing bracket
 2 Straight hoselets
 3 90° Curved hoselets
 4 Coupling 90° with flange 1"
 5 Handle
 6 Kit terminal box (with or w/out switch). If the terminal board kit is present and the switch is in position "0", the pump is switched OFF while if the switch in position "1", the pump is switched ON.
 7 Straight hose connector 3/4" G for horizontal openings
 8 BP3000 body with horizontal openings
 9 BP3000 body with vertical openings
 10 Pump motor
 11 Straight, flanged coupling
 12 Rubber hose
 13 Self 2000 nozzle



12.5 LINE ACCESSORIES

ATTENTION: It is the responsibility of the installer to provide the necessary line accessories to ensure the correct and safe operation of the pump. The accessories that are not suitable to be used with the indicated material could damage the pump or cause injury to persons, as well as causing pollution. IT IS THE INSTALLER'S RESPONSIBILITY TO APPLY THE FOLLOWING SIGNALS ON THE MACHINE ANYWHERE PUMP WILL BE USED.

13 CONNECTIONS

13.1 ELECTRICAL CONNECTIONS

GENERAL WARNING: Comply with the following (not exhaustive) instructions to ensure a proper electrical connection:

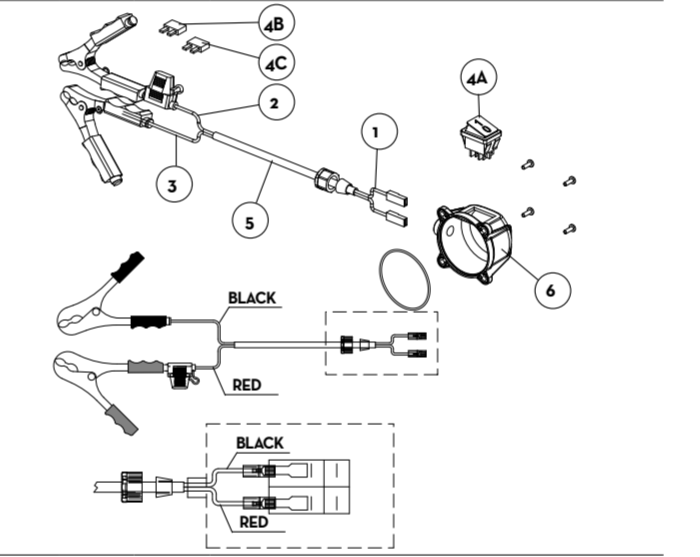
- Before installation and maintenance make sure that power supply to the electric lines has been turned off.
- Use cables with minimum cross-sections, rated voltages and installation type that are suitable for the characteristics indicated in paragraph "ELECTRICAL SPECIFICATIONS".
- Always close the cover of the terminal strip box before switching on the power supply, after having checked the integrity of the seal gaskets that ensure the IP55 protection grade.

ATTENTION: For connection the installer shall have to use a cable of adequate diameter for the cable gland to ensure protection grade IP55.

13.2 CONNECTING THE PIPING

ATTENTION: IT IS THE RESPONSIBILITY OF THE INSTALLER TO CARRY OUT THE ELECTRICAL CONNECTIONS IN COMPLIANCE WITH THE APPLICABLE REGULATIONS. DO NOT INVERT FUSES TO AVOID ANY MOTOR DAMAGE OR MALFUNCTION. 25A FUSE CAN BE FITTED ONLY ON 12V PUMP 15A FUSE CAN BE FITTED ONLY ON 24V PUMP

WARNING: The use of tubes that are not suitable could cause damage to the pump or to persons, as well as pollution. Loosening of the connections (threaded connections, flanges, gasket seals) could cause serious ecological and safety problems. Check all the connections after the first installation on a daily basis. If necessary, tighten all the connections.



14 INITIAL START-UP

GETTING STARTED:
 1 Check that the quantity of diesel fuel in the suction tank is greater than the amount you wish to transfer
 2 Make sure that the residual capacity of the delivery tank is greater than the quantity you wish to transfer
 3 Do not run the pump dry. This can cause serious damage to its components.
 4 Make sure that the tubing and line accessories are in good condition. Diesel fuel leaks can damage objects and injure persons. Do not operate switches with wet hands.
 5 Extreme operating conditions with working cycles longer than 30 minutes can cause the motor temperature to rise, thus damaging the motor itself. Each 30-minute working cycle should always be followed by a 30-minute power-off cooling phase. In the prime phase the pump must blow the air initially present in the entire installation out of the delivery line. Therefore it is necessary to keep the outlet open to permit the evacuation of the air. If an automatic type dispensing nozzle is installed at the end of the delivery line, the evacuation of the air will be difficult because of the automatic stopping device that keeps the valve closed when the line pressure is too low. It is recommended that the automatic dispensing nozzle be temporarily disconnected during the initial start-up phase.

14.1 INITIAL START-UP

ATTENTION: The priming phase can last from several seconds to a few minutes, as a function of the characteristics of the system. If this phase is prolonged, stop the pump and verify:
 - That the pump is not running completely dry
 - That the suction tubing is not allowing air to seep in
 - That the suction filter is not clogged
 - That the suction height does not exceed 2 m. (if the height exceeds 2 m, fill the suction hose with fluid)
 - That the delivery tube is allowing the evacuation of the air.

14.2 INITIAL START-UP

PRIMING: The priming phase can last from several seconds to a few minutes, as a function of the characteristics of the system. If this phase is prolonged, stop the pump and verify:
 - That the pump is not running completely dry
 - That the suction tubing is not allowing air to seep in
 - That the suction filter is not clogged
 - That the suction height does not exceed 2 m. (if the height exceeds 2 m, fill the suction hose with fluid)
 - That the delivery tube is allowing the evacuation of the air.

15 DAILY USE

FOREWORD USE PROCEDURE:
 1 This pump is for professional use only.
 2 If using flexible tubing, attach the ends of the tubing to the tanks. In the absence of an appropriate slot, solidly grasp the delivery tube before beginning dispensing.
 3 Before starting the pump make sure that the delivery valve is closed (dispensing stop or line valve).
 4 Turn the ON/OFF switch on. The by-pass valve allows functioning with delivery closed only for brief periods.
 5 Open the delivery valve, solidly grasping the end of the tubing.
 6 While dispensing, do not inhale the pumped product.
 7 Should you spill any fluid while dispensing, bank it with earth or sand to absorb it and limit its spreading.
 8 Close the delivery valve to stop dispensing. When dispensing is finished, turn off the pump.
After use, make sure the pump is turned off. In case of a power break, switch the pump off straight away.

16 MAINTENANCE

NOTE: Maintenance must be performed only by authorized and properly trained personnel.

16.1 MAINTENANCE

SAFETY WARNINGS: Thanks to the design, the pump requires simple maintenance. Before carrying out any maintenance work, disconnect the pump from any electrical and hydraulic power source. During maintenance, the use of personal protective equipment (PPE) is compulsory. In any case always bear in mind the following basic recommendations for a good functioning of the pump:
 - Check that the pipe connections are not loose to prevent any leaks
 - Check and keep the filter installed on the suction line clean
 - Check the pump body and keep it clean and free of any impurities
 - Check that the electrical supply cables are in good condition.
Do not put your fingers into the pump openings while the pump is working

17 NOISE LEVEL

Under normal working conditions the noise emission from all models does not exceed the value of 70 db at a distance of 1 meter from the electric pump.

18 PROBLEMS AND SOLUTIONS

For any problems contact the authorised dealer nearest to you.

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
THE MOTOR IS NOT TURNING	Lack of electric power Rotor jammed Motor problems	Check the electrical connections and the safety systems. Check for possible damage or obstruction of the rotating components. Contact the Service Department
THE MOTOR TURNS SLOWLY WHEN STARTING	Low voltage in the electric power line	Bring the voltage back within the anticipated limits
LOW OR NO FLOW RATE	Low level in the suction tank Foot valve blocked Filter clogged Excessive suction pressure	Refill the tank Clean and/or replace the valve Clean the filter Lower the pump with respect to the level of the tank or increase the cross-section of the tubing
	High loss of head in the delivery circuit (working with the by-pass open)	Use shorter tubing or of greater diameter
	By-pass valve blocked	Dismantle the valve, clean and/or replace it
	Air entering the pump or the suction tubing A narrowing in the suction tubing	Check the seals of the suction tubing Use tubing suitable for working under suction pressure
	Low rotation speed	Check the voltage at the pump/Adjust the voltage and/or use cables of greater cross-section
INCREASED PUMP NOISE	The suction tubing is resting on the bottom of the tank Cavitation occurring Irregular functioning of the by-pass	Raise the tubing Reduce suction pressure Dispense fuel until the air is purged from the by-pass system
LEAKAGE FROM THE PUMP BODY	Air present in the diesel fuel Seal damaged	Verify the suction connections Check and replace the seal

19 DEMOLITION AND DISPOSAL

Foreword: If the system needs to be disposed, the parts which make it up must be delivered to companies that specialize in the recycling and disposal of industrial waste and, in particular:

Disposing of packing materials: The packaging consists of biodegradable cardboard which can be delivered to companies for normal recycling of cellulose.
Metal Parts: Metal parts, whether point-finished or in stainless steel, can be assigned to scrap metal collectors.
Disposal of electric and electronic components: These must be disposed of by companies that specialize in the disposal of electronic components, in accordance with the indications of directive 2012/19/EU (see text of directive below).

European Directive 2012/19/EU requires that all equipment marked with this symbol on the product and/or packaging not be disposed of together with non-differentiated urban waste. The symbol indicates that this product must not be disposed of together with normal household waste. It is the responsibility of the owner to dispose of these products as well as other electric or electronic equipment by means of the specific refuse collection structures indicated by the government or the local governing authorities.

Information regarding the environment for clients residing within the European Union: Disposing of RAEE equipment as household wastes is strictly forbidden. Such wastes must be disposed of separately. Any hazardous substances in the electrical and electronic appliances and/or the misuse of such appliances can have potentially serious consequences for the environment and human health. In case of the unlawful disposal of said wastes, fines will be applicable as defined by the laws in force.

Miscellaneous parts disposal: Other components, such as pipes, rubber gaskets, plastic parts and wires, must be disposed of by companies specialising in the disposal of industrial waste.

BY-PASS CARRY BATTERY KIT 3000



Manuale di Installazione uso e manutenzione

IT e manutenzione
 EN Installation, use and maintenance manual

BULLETIN M0192 D ITEM..._00

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