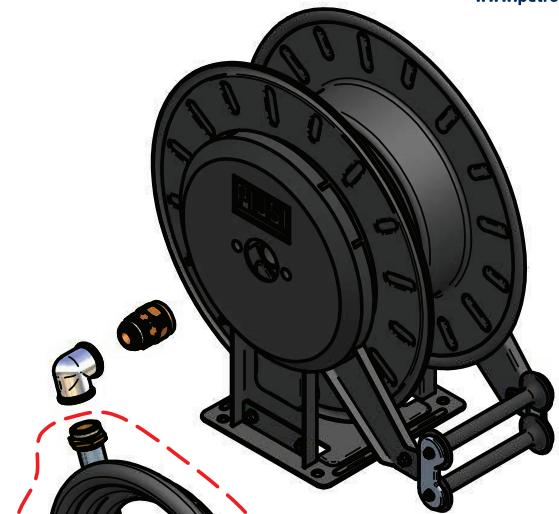


# SCHEMA DI MONTAGGIO - ASSEMBLY



Componenti a  
carico del cliente.  
Esempio  
solo indicativo.

Customer's  
components.  
Only example.

**ENGLISH (Translated from Italian)**

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**B MACHINE AND MANUFACTURER IDENTIFICATION**

AVAILABLE MODELS  
By-pass 3000 - 12 - 24 Vdc  
Carry 3000 - 240 W  
Battery Kit 3000

PRODUCT CODE  
PIUSI 3000 BY PASS 3000 T24 240W

MODEL  
PIUSI 3000

TECHNICAL DATA  
12V DC  
240W  
OUTLET CIRCUIT 2 MIN  
22A

MANUFACTURER  
Piusi S.p.A.  
Via Pisicotti 21, Rangone  
46029 Serravalle Scrivia (Mantova) Italy

**C DECLARATION OF INCORPORATION OF PARTI-COMPLETED MACHINERY**

Instruction manual  
PIUSI 3000  
Via Pisicotti c.m. 21-Rangone  
46029 Serravalle Scrivia (Mantova) Italy

UNITED STATES: under our responsibility, that the parti-completed machinery:  
Description: Machine for diesel oil transfer  
Model: By-pass 3000 - 12 - 24 Vdc - 240W / Battery 3000  
Serial number: 00000000000000000000000000000000  
Year of manufacture: refer to the year of production shown on the CE plate affixed to the product.  
It must be incorporated in a machine (or in other machines) so as to create a machine to which Machine Directive 2006/42/EC, may not be brought into force. The declaration of conformity of the parti-completed has been declared in conformity with the provisions indicated in the directives:  
- Machine Directive 2006/42/EC  
- Electromagnetic Compatibility Directive 2004/108/EC

REPUBLIC OF CHINA: the disposal of the competent authority following requested information at Piusi S.p.A., or following request sent to the e-mail address [dcc@piusi.com](mailto:dcc@piusi.com).  
The person authorised to compile the technical file and draw up the declaration is Otto Vanni as legal representative.

Suzzara, 01/01/2010  
*Ottavio Vanni*  
legal representative

**D MACHINE DESCRIPTION**

PUMP Self-Priming, safe rotating, non-pump, equipped with by-pass system.  
MOTOR 24V DC, low tension with intermittent cycle, closed type in protection class IP55 according to CE/EN 60068-2-68 standard.

**D1 MOVING AND TRANSPORT**

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

**E GENERAL WARNINGS**

Important precautions  
Symbols used in the manual  
Manual preservation  
Reproduction rights

To ensure operator safety and to protect the pump from potential damage, workers must be fully acquainted with this instruction manual before performing any operation.  
ATTENTION This symbol indicates safe working practices for operators, maintenance and repair personnel.  
WARNING This symbol indicates that there is risk of damage to the equipment and/or its components.  
NOTE This symbol indicates used information.  
ATTENTION To ensure operator safety and prevent damage that could affect pump operation, always demand original accessories.

The 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 reprinted without the written permission of Piusi S.p.A.  
© Piusi S.p.A.  
THIS MANUAL IS THE PROPERTY OF PIUSI S.p.A.  
ANY REPRODUCTION, EVEN PARTIAL, IS FORBIDDEN.

**ENGLISH (Translated from Italian)**

**F FIRST AID RULES**

Contact with the pump  
Persons who have suffered electric shock

NOTE SMOKING PROHIBITED

When operating the dispensing system and in particular during refueling, do not smoke and do not use open flame.

**G GENERAL SAFETY RULES**

Essential protective equipment characteristics  
Personal protective equipment that must be worn

Protective equipment  
Protective gloves  
DANGER

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

Never touch the electric plug or socket with wet hands.

Do not switch the dispensing system on if the network power supply is interrupted, as the electrical apparatus are damaged, such as the inlet/outlet pipe, nozzle or safety devices. Replace the damaged pipe immediately.

Before each use, check that the network connection cable and power plug are not damaged. Have the network connection cable replaced immediately by a qualified technician.

ATTENTION

The pump should be powered by a safe source: battery or power supply 12/24 VDC with a maximum current of 24A. In accordance with the model, the pump must be powered by a direct current source. In case of emergency, refer to the table in the paragraph "ELECTRICAL SPECIFICATIONS".

The pump must be connected to the electrical parameters are:  
Voltage: 12V or 24V  
Frequency: 50 Hz

Power supply from lines with values that do not fall within the indicated limits could cause damage to electrical components and work performed.

**L1 OPERATING CONDITIONS**

TEMPERATURE min. +23 °F / max. +104 °F  
RELATIVE HUMIDITY 5% - 90%  
LIGHTING

ATTENTION

The environment must conform to directive 89/654/EEC and national regulations. In case of non-EU countries, refer to Directive EN ISO 20471.

The temperature limits shown apply to the pump components and must be respected to avoid possible damage or malfunction.

**L2 ELECTRICAL POWER SUPPLY**

NOTE

N.B.: THE PUMP SHOULD BE POWERED BY A SAFE SOURCE: BATTERY OR POWER SUPPLY 12/24 VDC WITH A MAXIMUM CURRENT OF 24A. IN ACCORDANCE WITH THE MODEL, THE PUMP MUST BE POWERED BY A DIRECT CURRENT SOURCE. IN CASE OF EMERGENCY, REFER TO THE TABLE IN THE PARAGRAPH "ELECTRICAL SPECIFICATIONS".

The pump must be connected to the electrical parameters are:  
Voltage: 12V or 24V  
Frequency: 50 Hz

ATTENTION

If the pump is connected to a power source with a voltage higher than the nominal value, it is necessary to take the following measures:

The pump must be disconnected from the electrical power source. Size the installation to contain the back pressure.

It is a good practice to immediately install vacuum and air pressure gauges at the inlet and outlet of the pump. Check that the operating conditions are within acceptable limits. To prevent the suction tube from collapsing when the pump stops, a float valve should be installed.

It is the installer's responsibility to perform the electrical connections and verify the correct application regulations.

**L3 DUTY CYCLE**

NOTE

The pump has been designed for intermittent use and a 20-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).

**L4 FLUIDS PERMITTED / FLUIDS NOT PERMITTED**

The decals present are as follows:  
DIESEL FUEL at a viscosity of 2 to 5.35 cSt (at a temperature of 37.8°C). Minimum Flash Point (PMc): 55°C

NOT PERMITTED RELATED DANGERS

GASOLINE-INFLAMMABLE LIQUIDS FIRE EXPLOSION  
with > 55°C  
WATER  
VOLATILE VISCOSITY > 20 cSt  
4-POLE LIQUIDS  
CORROSIVE CHEMICAL PRODUCTS  
FIRE - EXPLOSION  
CONTAMINATION OF THE SIGHT GLASS  
DAMAGE TO GASKET SEALS  
MOTOR OIL/GREASE

NOT PERMITTED RELATED DANGERS

SOLVENTS

**M1 PRELIMINARY INSPECTION**

Verifying that all components are present. Request any missing parts from the manufacturer.

The pump has not suffered any damage during transport or storage.

Check the pump and delivery outlets and outlets, removing any shipping packaging material that may be present.

Make sure that the motor shaft turns freely.

Verify that the electrical data corresponds to those indicated on the data plate.

Always install in an illuminated area.

Always install the pump in ventilated place to avoid any vapour accumulation.

We recommend that a suction filter be used.

**M2 POSITIONING THE PUMP**

The pump can be installed in any position (with pump axis in vertical or horizontal position).

ATTENTION

The pump must be securely attached by means of the ground connection and delivery outlets.

**M3 NOTES ON SUCTION AND DELIVERY LINES**

DELIVERY

The selection of the pump model must be made taking into account the operating conditions and the length of the line.

The combination of the length of the line, the diameter of the pipe and the accessories installed on the line, as well as the accessories installed on the line, can create back pressure, which can exceed the maximum operating pressure, thereby causing the pump's electrical controls to intervene and reducing the dispensing flow capacity.

In these cases, to guarantee correct operation of the pump, it is necessary to increase the operating pressure of the pump by increasing the diameter of the pipe, as well as the accessories installed on the line, creating back pressure, which can exceed the maximum operating pressure, thereby causing the pump's electrical controls to intervene and reducing the dispensing flow capacity.

**M4 CONFIGURATION AND ACCESSORIES**

NOTE

The wide range of accessories makes it possible to fit the base in different positions allowing the pump to be used for different installations. The installation of the pump is performed from the base, which is the most stable if the following instructions are followed:

- 1 Trolley base
- 2 Straight hoses
- 3 90° Curved hoses
- 4 90° Elbow 10° flange 1"
- 5 Handle
- 6 Kit for filter base or outlet switch. If the terminal board is not present and the switch is in position "0", the pump is switched OFF while the switch is in position "1", the pump is switched ON.
- 7 Straight hose connector 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-drain nozzle

**M5 LINE ACCESSORIES**

ATTENTION

**PRIMING**

It is the responsibility of the installer to provide the necessary information to the user to ensure the correct and safe operation of the pump. The accessories that are not suitable to be used with the previously indicated lines and components can cause damage to persons, as well as causing pollution.

To ensure performance and prevent damage that could affect pump operation, always demand original accessories.

**ATTENTION**

The curve refers to the following operating conditions:  
Diesel Fuel  
Temperature: 20°C  
Suction Conditions: The tube and the pump suction line must be at the same level 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 nominal pressure.

To obtain the best performance, it is very important to keep the suction tube as much as possible aligned with the delivery line.

Shorten the suction tube as much as possible

Avoid bends in the suction tube as much as possible

Keep the suction filter clean

Use a tube with a diameter equal to, or greater than, the indicated one (see installation)

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Diesel Fuel  
Temperature: 20°C  
Suction Conditions: The tube and the pump suction line must be at the same level 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 nominal pressure.

To obtain the best performance, it is very important to keep the suction tube as much as possible aligned with the delivery line.

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## ITALIANO (Lingua originale)

### A INDICE

- A INDICE
- B IDENTIFICAZIONE MACCHINA E COSTRUTTORE
- C DICHIARAZIONE DI INCORPORAZIONE DELLE QUASI MACCHINE
- D DICHIAZIONE DI MIGRAZIONE DELLA MACCHINA
- E NORME DI PRONTO SOCCORSO
- F AVVERTENZE DI SICUREZZA
- G VISTE ESPLOSE / INGOMBRI / OVERALL DIMENSIONI
- H DATI ELETTRICI
- I CONDIZIONI OPERATIVE
- M CONTROLLI PRELIMINARI
- N COLLEGAMENTI E ALACCIAIMENTI
- O USO AVVOLTOIO
- P MANUTENZIONE
- R VISTE ESPLOSE
- S PROBLEMI E SOLUZIONI
- T VISTE ESPLUSE / EXPLODED VIEWS
- U INGMOMBRI / OVERALL DIMENSIONS

## ITALIANO (Lingua originale)

### F NORME DI PRONTO SOCCORSO

**Contatto con il produttore**  
Per poter ricevere copie o dati scambiati elettronici

**NOTA**  
Operando sul sistema di distribuzione, in particolare durante l'operazione di erogazione, non fumare e non usare fiamme libere.

### G NORME GENERALI DI SICUREZZA

**Caratteristiche essenziali del dispositivo e equipaggiamento di protezione:**  
Indossare un equipaggiamento di protezione che sia: - sicuro - confortevole - adatto per l'utilizzo - resistente a prodotti dannosi per la pelle.

**Dispositivi di protezione individuale da indossare:**  
scarpe antinfortunistiche; indumenti attillati al corpo;

guanti di protezione; occhiali di sicurezza; manuale di istruzioni

**Dispositivi di protezione:**  
Il cinturino prolungato con il prodotto tratta può provocare ustioni alla pelle durante l'erogazione, utilizzando la pompa.

**PERICOLO**  
Non toccare mai le spine e la presa con le mani bagnate. Non accendere il sistema di distribuzione nel caso in cui la pompa sia stata esposta all'acqua o all'olio dell'apparecchio, per es. il tubo di aspirazione/mandata, la pistola, oppure i dispositivi di sicurezza elettrici. Non accendere la pompa se è stata danneggiata.

**ATTENZIONE**  
Prima di ogni uso, controllare che il cavo di alimentazione sia attaccato alla rete e la spina di alimentazione non presenti danni. Far sostituire immediatamente qualsiasi cavo danneggiato che sia pericoloso, da un elettrista specializzato.

L'allungatore tra presa e linea deve rimanere lontano dalla fuoco.  
Prolunga non ed ottenere risultato pericoloso. Utilizzare solo la tensione nominale prevista per quel'utilizzo, con sezione di condutture sufficiente, in base alle normative vigenti.

Per proteggere la pompa dall'overpressure, è possibile a prima vista di utilizzare il dispositivo di protezione della pompa, per esempio, di utilizzare l'apparecchio solo con un interruttore differenziale (max 30mA).

Prima di utilizzare l'apparecchio, assicurarsi che la pompa sia correttamente assemblata, cioè i coperchi chiusi e regolati d'aria.

Quando il flusso di fluido è troppo basso, il prodotto possono raggiungere temperature elevate e causare le ustioni se toccate.

**ATTENZIONE**  
Per attenzione

**H DATI TECNICI**  
H1 PRESTAZIONI

Il diagramma delle prestazioni, mostra la portata in funzione della contro pressione.

Punto di funzionamento	Portata	Tensione (V)	Alimentamento (A)	Tipica configurazione in mandata
A (Mandata portata)	50	12	15	•
B (Portata elevata)	48	12	16	• •
C (Configurazione nominali)	46	12	17	•
D (By pass)	0	24	9	•

**ATTENZIONE**  
Installare la pompa in luogo dove esiste una buona aspirazione.

**M DATI ELETTRICI**  
M1 CONTROLLI PRELIMINARI

Verificare se tutte le parti sono applicate al prodotto. Controllare che la macchina non abbia subito danni durante il trasporto o l'imballaggio.

Controllare se le spine di alimentazione elettrica e dei componenti sono in perfette condizioni.

Verificare se la tensione nominale corrisponde al principio di utilizzo dell'apparecchio.

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**ATTENZIONE**  
Per salvaguardare l'industria degli operatori, per evitare possibili danneggiamenti alla pompa, e prima di compiere operazioni di manutenzione, è necessario accendere la pompa e di accorgersi che la temperatura di funzionamento non superi i valori indicati in ogni momento.

**D1 MOVIMENTO E TRASPORTO**  
Data il limite preso a riferimento della pompa, la loro manutenzione non richiede l'ausilio di mezzi di sollevamento. Prima della spedizione le pompe vengono accuratamente imballate. Controllare l'imballo al ricevimento ed immagazzinare in luoghi asciutti.

### E AVVERTENZE GENERALI

Avvertenze importanti

Simbologia utilizzata nel manuale

Questo simbolo indica norme antinfortunistiche per gli operatori e/o eventuali persone esposte.

Questo simbolo indica che esiste la possibilità di arretrare dalle specifiche e/o a loro componenti.

NOTA

Questo simbolo indica informazioni utili.

Questo manuale deve essere letto integro e leggibile in ogni sua parte. L'utente finale ed i tecnici specializzati autorizzati hanno il diritto di ricevere copie di questo manuale e di poterlo consultare in ogni momento.

Le informazioni e le specifiche tecniche riportate in questo manuale sono rivolte alla Piusi SpA.

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## ITALIANO (Lingua originale)

### H DATI ELETTRICI

MODELLO POMPA	FUSIBILI	ALIMENTAZIONE	CORRENTE
VERSIONE 12V	25	DC	12
VERSIONE 24V	15	DC	24

(\*) si riferiscono al funzionamento in by-pass.

### I CONDIZIONI OPERATIVE

#### L1 CONDIZIONI AMBIENTALI

TEMPERATURA min. -20 °C max. +40 °C

UMIDITÀ RELATIVA max. 90%

L'ambiente deve essere conforme alla direttiva 90/654/CE sui segni di pericolo per le apparecchiature elettriche e informatiche.

Le temperature limiti indicati sono rispettate per evitare possibili danneggiamenti o malfunzionamenti.

#### L2 ALIMENTAZIONE ELETTRICA

NOTA La POMPA DEVE ESSERE ALIMENTATA DA FONTE SICURA BATTERIA O ALIMENTATO 12V/24V CON TRASFORMATORI.

In funzione del modello, la pompa deve essere alimentata da una linea in corrente continua con una tensione indicata nel paragrafo 1 - DATI ELETTRICI.

Le massime variazioni accettabili per i parametri elettrici sono:

Tensione +/- 10% della valle nominale

Corrente +/- 10% della valle nominale

Alimentazione da linea a valle della pompa, con circuiti elettrici che riducono la riduzione della pressione.

La pompa non deve essere alimentata da un circuito di controllo della pompa, con circuiti elettrici che riducono la riduzione della pressione.

Il dispositivo di protezione della pompa deve essere installato a monte della pompa, vuotando e rimuovendo i componenti che consentono di venire in contatto di fronte alla pompa, in modo da impedire il rischio di incendi.

La pompa norma prevede l'installazione (o carico) dell'installatore con un filtro in aspirazione.

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La pompa non deve essere aliment

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