@ PIUSI S.p.A.

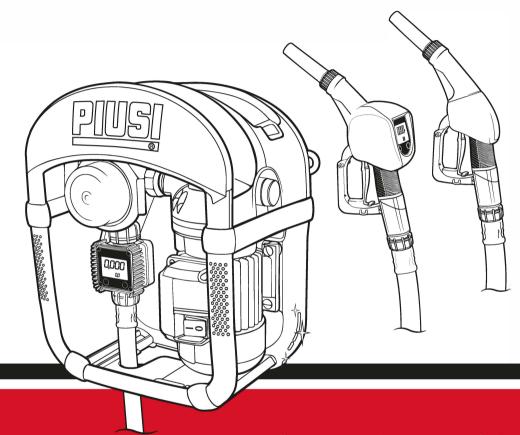
EN. This document has been drawn upwith the greatest attention to precision and accuracy of all data herein contained. Nevertheless, PIUSI S.p.A. denies liability for any possible mistake or omission.





Fluid Handling Innovation







Installation, utilisation et entretien | FR

Installation, Gebrauch und Wartung | **DE**

Installazione, uso e manutenzione | IT

Instalación, uso y mantenimiento | ES

Installatie, gebruik en onderhoud | **NL**







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1. DECLARATION CE OF CONFORMITY

The undersigned:

PIUSI S.p.A.

Via Pacinotti c.m. z.i. Rangavino 46029 Suzzara - Mantova - Italy

HEREBY STATES

under its own responsibility, that the equipment described below: Description: urea and water dispensing solution

Model: PIUSI THREE25

Serial number: refer to Lot Number shown on CE plate affixed on the product. Year of manufacture: refer to the year of production shown on the CE plate affixed on the product.

is in conformity with the legal provisions indicated in the directives:

- · Machine Directive 2006/42/CE
- · Low-Voltage Directive 2006/95/CE
- · Electromagnetic Compatibility Directive 2004/108/CE

The documentation is at the disposal of the competent authority following motivated request at PIUSI S.p.A. or following request sent to the email address: doc_tec@piusi.com

The person authorised to compile the technical file and draw up the declaration is Otto Varini as legal representative.

Suzzara, 01/01/2014

Otto Varini legal representative

toborini

<u>Piusi</u>

2. 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.

Symbols used in the manual

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



WARNING

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.

Reproduction rights

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3. SAFETY INSTRUCTIONS AND WARNINGS

Mains - preliminary checks before installation

Before installation, make sure that the electric power supply network is fitted with a suitable earth-line and complies with the regulations in force.



WARNING

You must avoid any contact between the electrical power supply and the fluid that needs to be pumped.

The device is NOT anti-explosive type.

The device must be installed outside areas at risk of explosion.

Do not install in areas where inflammable vapors may be present.

Maintenance control

Before any checks or maintenance work are carried out, switch the system's power off by disconnecting the plug from the socket.

Prohibitions



WARNING

It is strictly forbidden to support or transport the system using a power supply cable. It is strictly forbidden to support or transport the system using a suction or outlet pipe.

4. FIRST AID RULES

Contact with the product

In the event of problems developing following EYE/SKIN CONTACT, INHALATION or INGESTION of the treated product, please refer to the SAFETY DATA SHEET Ad-Blue®/AUS32.

Persons who have suffered electric shock

Disconnect the power source, or use a dry insulator to protect yourself while you move the injured person away from any electrical conductor. Avoid touching the injured person with



Please refer to the safety data sheet for the product.

your bare hands until he is far away from any conductor. Immediately call for help from qualified and trained personnel. Do not operate switches with wet hands.



5. GENERAL SAFETY RULES

Essential protective equipment characteristics

Essential protective Wear protective equipment according to the info below:

- · suited to the operations that need to be performed;
- · resistant to cleaning products.

Personal protective equipment that must be worn Wear the following personal protective equipment during handling and installation:



safety shoes



protective gloves



close-fitting clothing



safety goggles



Use Instruction Manual

Protective Gloves

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

Overheating

For the proper functioning of the system, allow a 20-minute stop for every 20 minutes of dispensing.



WARNING

Never touch the electric plug or socket with wet hands.

Do not switch the dispensing system on if the network connection cable or important parts of the 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 electrician.



WARNING

The electrical connection between the plug and socket must be kept well away from water.

Unsuitable extension leads can be dangerous. In accordance with current regulations, only extension cords that are labelled for outdoor use and have a sufficient conduction path should be used outdoors.

For safety reasons, we recommend that, in principle, the equipment be used only with a earth-leakage circuit breaker (max 30 mA).



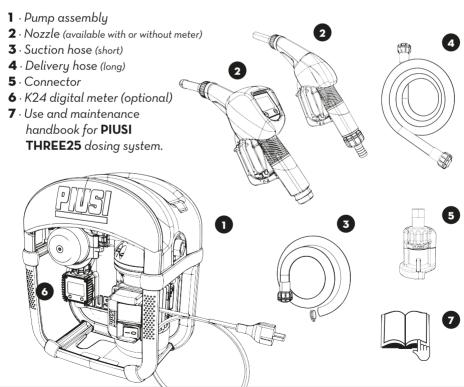
6. DISPENSING SYSTEM PACKAGING



The dispensing system comes packed in a cardboard box bearing a *label* containing all the information relating to the equipment (model, weight, etc.).

7. PACKAGE CONTENTS/PRE-INSPECTION

To open the cardboard packaging, use a pair of scissors or a cutter, being careful not to damage the dispensing system or its components. Open the packaging and check that the following components provided as part of the equipment are available:







WARNING

Check that the data on the plate correspond to the desired specifications. In the event of any anomaly, contact the supplier immediately, indicating the nature of the defects. Do not use equipment which you suspect might not be safe.



In the event that one or more of the components described below are missing from inside the package, please contact PIUSI S.p.A. technical support.

8. PLATES POSITION

The dispensing system is equipped with decals and/or plates to provide operators with the necessary important information. Make sure that these do not deteriorate or become detached over time The decals present are as follows:



safety shoes



close-fitting clothing



protective gloves



safety goggle



Consult the "user and maintenance manual"



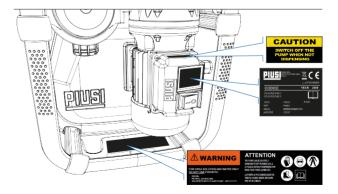
NOTE

Should this situation arise, please contact our support department and arrange to have the damaged or missing plates sent back and replaced where necessary.



PETROL (GASOLINE)
SOLVENTS WITH FLASH POINT <55°C/131°F

Product for dispensing





9. MACHINE AND MANUFACTURER IDENTIFICATION

The dispensing system comes with an identification plate; this is attached to the pump and contains the following information:

- · type;
- · lot number / production year;
- · technical data:
- · use and maintenance handbook code.



Before installing, always make sure the type of dispensing system is correct and suitable for the available power supply (Voltage/Frequency.)

10. TECHNICAL SPECIFICATIONS

Length	324 mm / 12,75"
Depth	208 mm / 8,19"
Height	393 mm / 15,47"
Weight	15,2 kg / 33,5 lb
Operating temperature	-5°C/+40°C +23°F / +104°F

II. INTENDED USE

Intended use

The dispensing system "PIUSI THREE25" was designed and built for the distribution of the product called AdBlue®/AUS32/D.E.F. or water.



Conditions of use

The dispensing system "PIUSI THREE25" should be used by observing the following conditions:

- · max. temperature of dispensed product: +35 °C (95 °F);
- · min. temperature of dispensed product: -11°C (12,2 °F);
- · max. temperature of dispensed product permitted by materials: +40°C (104°F);
- · voltage variation permitted: +/- 5%;
- · equivalent continuous sound pressure level at the workstation: 75 dB (A);
- · make sure that the pump operates within its nominal operating parameters.

Flammable liquids and explosive atmosphere



WARNING

The system "PIUSI THREE25" was not designed for dispensing of diesel, petrol, flammable liquids with flash point <55°C (131°F), or for operation in environments with potentially explosive atmosphere. The use in the above mentioned conditions is forbidden.

Unintended use

Do not operate the system for any purpose other than the purpose described within this manual; all other use is considered "IMPROPER" and will result in PIUSI S.p.A. disclaiming any responsibility for damage to property, people, animals or to the system itself.



WARNING

Do not keep the pump in motion with the nozzle in the closed position for more than 3 minutes.



12. TREATED PRODUCT CHARACTERISTICS

Products permitted

The "PIUSI THREE25" dispensing system was designed and built to dispense a special liquid, made from an aqueous urea solution, known as AdBlue®/AUS32/D.E.F., based on the ISO 22241.

Standard PIUSI THREE25 can also be used with water.

Products not permitted



All products not listed in the "Intended Use" and "Treated Product Characteristics" paragraphs are to be considered not permitted, improper and therefore prohibited.

PIUSI S.p.A. accepts no responsibility for damage to persons or property caused by failure to comply with this requirement.



13. INSTALLATION

Foreword

The "PIUSI THREE25" dispensing system has been designed and equipped for IBC tank installation. Any different form of installation must guarantee secure fastening.

Authorised installation personnel

All installations must be carried out by authorised and competent personnel only. Authorised persons must:

- · install the system in dry and well-ventilated place;
- · ensure the correct installation of equipment required for the correct functioning of the pump;
- · only use accessories that have been supplied with the system.

Accessories not permitted



WARNING

The use of accessories that are unsuitable and were not provided with the system is strictly prohibited. PIUSI S.p.A. accepts no responsibility for damage to persons, property or the environment caused by failure to comply with this requirement.

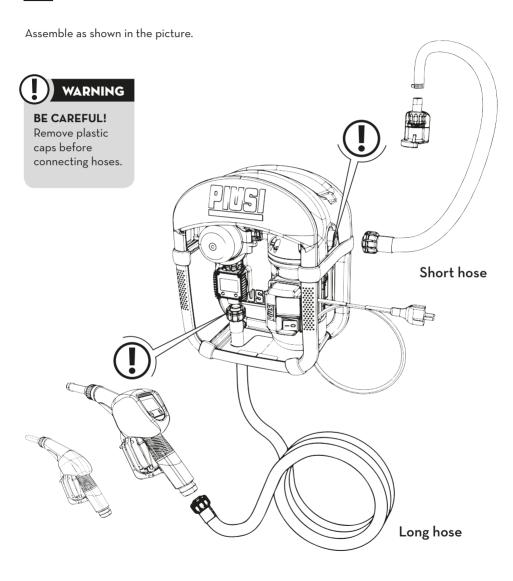


WARNING

- The "PIUSI THREE25" dispensing system is for professional use only.
- According to the current legislation, the "PIUSI THREE25" dispensing system must be installed in premises that are sufficiently well-lit.
- The "PIUSI THREE25" dispensing system has been specifically designed for use in a dry place. If installed outside, an adequate protective covering must be provided.



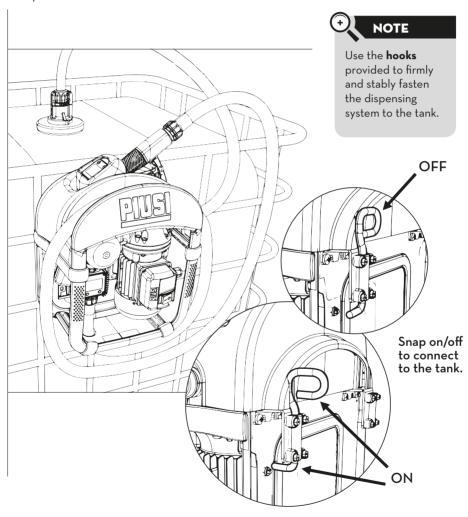
14. ASSEMBLY





15. INSTALLATION ONTO IBC TANKS

Different forms of installation, i.e. without the indicated tanks, are only permitted if they are capable of guaranteeing that the dispensing system will be firmly and stably fastened.





OPERATION AND USE



WARNING

To remove any substance residue or foreign matters from the pipes, wash the system before putting it into operation.

To wash the system, follow the same dispensing procedures using demineralized or deionized water and eventually rinse with AdBlue®/AUS32/D.E.F.

Foreword

Directions on how to start and stop operation of the system are given below:



During operation the motor may be hot: be careful.

For the proper functioning of the system, allow a 20-minute stop for every 20 minutes of dispensing.



Operation of the pump without dispensing is only admitted for periods of no longer than 3 minutes.

We recommend that the pump remains switched off whenever the system is not in use.



If ever the voltage is lagging, push the switch to the OFF position and return the nozzle to its rest position with its lever not activated.

Getting started:

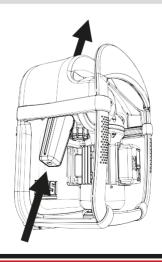


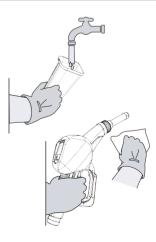




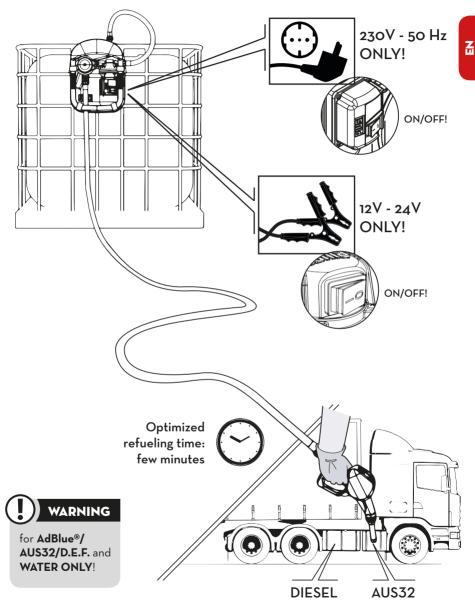


Push the empty nozzle holder













WARNING

- · Should any sealants be used on the suction and delivery circuit of the pump, make sure that these products are not released inside the pump.
- Foreign bodies in the suction and delivery circuit of the pump could cause malfunctioning and breakage of the pump components.
- · In case of prolonged dry-running of the pump, the suction circuit may be empty and suction may become difficult. If so, fill the suction circuit with demineralised water.

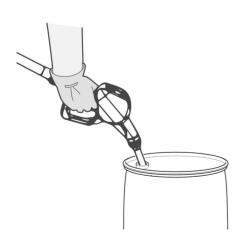
17. WASHING THE DISPENSING SYSTEM

Foreword The dispensing system requires washing in order to remove product

crystallisation which may damage the plant.

Disposal Liquids resulting from washing must be disposed of in accordance

with the laws prevailing in the country of use.





WARNING

- Wear personal protective equipment (PPE) when performing the wash cycle.
- · Use only demineralised water to wash the system.



NOTE

The dispensing system can be washed by sucking up demineralised water from the clean container and collecting the resulting mixture in a different disposable container.

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18. LEAVING THE SYSTEM UNUSED FOR LONG PERIODS OF TIME

What to do

Whenever it is thought that the system will remain unused for at least 15 days, it must be emptied in order to prevent the product from crystallising inside. This shall be followed by a washing cycle.

19. MAINTENANCE

Safety instructions

The dispensing system was designed and built to require a minimal amount of maintenance.

Before carrying out any maintenance work, disconnect the dispensing system 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.

Authorised maintenance personnel

All maintenance must be performed by qualified personnel.

Tampering can lead to performance degradation, danger to persons and/or property and may result in the warranty being voided.

Measures to be taken

Whenever there is risk of frost, empty the circuit and the pump, taking care to place the pump in an environment where the temperature is no lower than $O^{\circ}C$ / $32^{\circ}F$.

Check that the labels and plates found on the dispensing system do not deteriorate or become detached over time.

ONCE A WEEK:

- · check that the pipe connections are not loose to prevent any leaks;
- · check and keep the filter installed on the suction line clean.

ONCE A MONTH:

- · check the pump body and keep it clean and free of any impurities;
- · check that the electrical supply cables are in good condition.



20. TROUBLESHOOTING

Problem	Possible cause	Corrective action
	Lack of electric power	Check the electrical connections and the safety systems
The motor is not turning	Rotor jammed	Check for possible damage or obstruction of the rotating components
	Motor problems	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 level in the suction tank	Refill the tank
	Foot valve blocked	Clean and/or replace the valve
	Filter clogged	Clean the filter or replace the cartridge
	Excessive suction pressure	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	Contact the Service Department
Low or no flow rate	Air entering the pump or the suction tubing	Check the seals of the connections
	A narrowing in 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
	The suction tubing is resting on the bottom of the tank	Modify tubing properly
	Freezing of the pump or motor	Thaw the pump and check for damage. Starting a frozen pump can cause damage to the motor and to the pump itself
	Leaks in the pump outlet pipe	Check the seal at the pipe's connections and inspect the pipe for possible damage
	Cavitation occurring	Reduce suction pressure
Increased pump noise	Irregular functioning of the by-pass	Dispense until the air is purged from the by-pass system
	Presence of air in the liquid to be pumped	Verify the suction connections
Leakage from the pump body	Pump damage	Contact the Service Department



21. DEMOLITION AND DISPOSAL

Foreword

If the system needs to be disposed, the parts which make it up must be delivered to companies that are specialized in the recycling and disposal of industrial waste and, in particular: DISPOSAL OF OTHER PARTS: other components, such as pipes, rubber gaskets, plastic parts and wires, must be disposed of by companies specialising in the disposal of industrial waste.

Disposing of packing materials

The packaging consists of biodegradable cardboard which can be delivered to companies for normal recycling of cellulose.

Metal parts disposal

Metal parts, whether paint-finished or in stainless steel, can be consigned 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 2002/96/EC (see text of directive below).

Information regarding the environment for clients residing within the European Union European Directive 2002/96/EC 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.

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