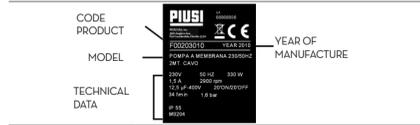


ENGLISH (Translated from Italian)

1 TABLE OF CONTENTS
2 MACHINE AND MANUFACTURER IDENTIFICATION
3 DECLARATION OF CONFORMITY
4 MACHINE DESCRIPTION
5 GENERAL WARNINGS
6 SAFETY INSTRUCTIONS
7 FIRST AID RULES
8 GENERAL SAFETY RULES
9 TECHNICAL DATA
10 PERFORMANCE SPECIFICATIONS
11 OPERATING CONDITIONS
12 ENVIRONMENTAL CONDITIONS
13 ELECTRICAL POWER SUPPLY
14 DUTY CYCLE
15 PERMITTED AND NON-PERMITTED FLUIDS
16 INSTALLATION
17 POSITIONING, CONFIGURATIONS AND NOTES ON SUCTION AND DELIVERY LINES
18 CONNECTIONS
19 ELECTRICAL CONNECTIONS
20 PIPING CONNECTIONS
21 INITIAL START-UP
22 EVERY DAY USE
23 MAINTENANCE
24 NOISE LEVEL
25 PROBLEMS AND SOLUTIONS
26 DEMOLITION AND DISPOSAL
27 EXPLODED VIEWS
28 OVERALL DIMENSIONS

2 MACHINE AND MANUFACTURER IDENTIFICATION



AVAILABLE MODELS SUZZARA 20/04
MANUFACTURER PIUSI USA, Inc.
3901 Anglers Ave.
Fort Lauderdale, Florida 33312

3 DECLARATION OF CONFORMITY

The undersigned: PIUSI USA, Inc.
3901 Anglers Ave.
Fort Lauderdale, Florida 33312

Hereby states under its own responsibility that the equipment described below:
Description: Dispenser Pump for the transfer of DEF - Water
Model: Diaphragm pump
Serial number: refer to Lot Number shown on CE plate affixed to product

Suzzara, 20/04/2016
Otto Varini
legal representative

4 MACHINE DESCRIPTION

PUMP MOTOR Five-chamber positive-displacement diaphragm pump
Brush motor, DC, low tension with intermittent cycle, closed type in protection class IP55 according to CEI-EN 60334-5.

4.1 HANDLING AND TRANSPORT

Foreword Due to the limited weight and dimensions of the pumps, special lifting equipment is not required to handle them.
PACKAGING The pump is equipped comes packed suitably for shipment. On the packaging a label shows the following product information

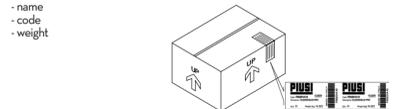


Table with 3 columns: MODEL, WEIGHT (Kg), PACKAGING DIMENSION (mm). Row 1: SUZZARA BLEU AC, 7, 350 x 180 x 280

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.

Symbols used in the manual 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.

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6 SAFETY INSTRUCTIONS

ATTENTION Main - pre-liminary checks before inst. You must avoid any contact between the electrical power supply and the fluid that needs to be FILTERED.

Maintenance control Before any checks or maintenance work are carried out, disconnect the power source. Use equipment only in well ventilated area.

EXPLOSION When flammable fluids are present in the work area, such as gasoline and windshield wiper fluid, be aware that flammable fumes can ignite or explode. To help prevent fire and explosion: ELECTRIC SHOCK This equipment must be grounded. Improper grounding, setup or usage of the system can cause electric shock.

Electrocution or death Do not operate the unit when fatigued or under the influence of drugs or alcohol. Do not leave the work area while equipment is energized or under pressure.

Burn Hazard Equipment surfaces and fluid that is heated can become very hot during operation. Toxic Fluid or Fumes Hazard Read MSDS 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.

First Aid Rules In the event of problems, developing following EYE/SKIN CONTACT, INHALATION or INGESTION of the treated product, please refer to the SAFETY DATA SHEET AU352/DEF/Ad-Blue®/Antifreeze.

General Safety Rules 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; protection gloves; safety goggles; instructions manual

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

DANGER 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.

ATTENTION 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).

Electrical connections must use ground fault circuit interrupter (GFCI).

Installation operations are carried out with the box open and accessible electrical contacts. All these operations have to be done with the unit isolated from the power supply to prevent electrical shock!

Do not operate the unit when fatigued or under the influence of drugs or alcohol. Do not leave the work area while equipment is energized or under pressure.

Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards. Roving 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 equipment. Keep children and animals away from work area. Comply with all applicable safety regulations.

To avoid severe burns do not touch hot fluid or equipment.

Read MSDS 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.

7 FIRST AID RULES

Contact with the product Persons who have suffered electric shock

NOTE Please refer to the safety data sheet for the product

8 GENERAL SAFETY RULES

Essential protective equipment characteristics - 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; protection gloves; safety goggles; instructions manual

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

DANGER 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.

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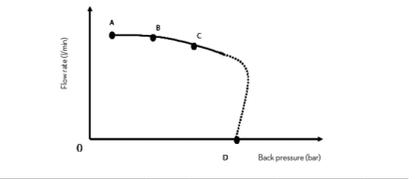
For safety reasons, we recommend that, in principle, the equipment be used only with a earth-leakage circuit breaker (max 30 mA).

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9 TECHNICAL DATA

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

Table with 7 columns: Functioning Point, Flow Rate, Voltage (V), Absorption (A), No. of meters of 3/4" pipe, K2z Meter, Manual nozzle, Automatic Dispensing Nozzle. Rows A-D with values for flow rate and absorption.



ATTENTION The curve refers to the following operating conditions: Fluid: AU352 - DEF Temperature: 20°C Suction conditions: The pipe and the pump position relative to the fluid level is such that a low pressure of 0.5 bar is generated at the nominal flow rate.

Under different suction conditions higher low 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 pipe as much as possible
- avoid useless elbows or throttling in the pipes
- keep the suction filter clean
- use a pipe with a diameter equal to, or greater than, indicated (see installation).

10 ELECTRICAL DATA

Table with 4 columns: PUMP MODEL, POWER SUPPLY, CURRENT, FREQUENCY. Rows for 120V version and 230V version.

NOTE (*) Refers to functioning in by-pass mode.

11 OPERATING CONDITIONS

11.1 ENVIRONMENTAL CONDITIONS

TEMPERATURE min. +25 °F / max. +104 °F min. -25 °C / max. +40 °C max. 90%

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

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 DATA".

ATTENTION 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 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).

11.4 PERMITTED AND NON-PERMITTED FLUIDS

FLUIDS PERMITTED - DEF, - WATER

FLUIDS NON-PERMITTED AND RELATED DANGERS - DIESEL FUEL - PETROL - INFLAMMABLE LIQUIDS - CORROSIVE CHEMICAL PRODUCTS - SOLVENTS - LIQUIDS WITH VISCOSITY >20 cSt - MOTOR OVERLOAD - OXIDATION OF PUMP - FIRE - EXPLOSION AND INJURY TO PERSONS - DAMAGE TO GASKET SEALS - MOTOR OVERLOAD

12 INSTALLATION

ATTENTION The pump must never be operated before the delivery and suction lines have been connected.

PRELIMINARY INSPECTION - Verify that all components are present. Request any missing parts from the manufacturer. - Check that the pump 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. - Check that the electrical data corresponds to those indicated on the data plate. - Always install in an illuminated area. - Install the pump at a height of min. 80 cm.

ENGLISH (Translated from Italian)

12.1 POSITIONING, CONFIGURATIONS AND ACCESSORIES

NOTE In the case of installation in the open air, proceed to protect the pump by providing a protection roof.

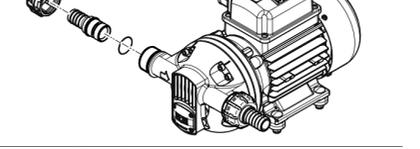
ATTENTION The pump can be installed in any position (pump axis vertical or horizontal). The pump must be secured in a stable way using the holes on the bed of the motor and vibration damping devices.

NOTE THE MOTORS ARE NOT OF THE ANTI-EXPLOSIVE-TYPE. DO NOT install them where inflammable vapours could be present.

ATTENTION The broad range of pump accessories make it suitable for many different uses, installations and applications. The supporting base can be positioned in different ways.

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 previously indicated material could damage the pump and/or cause injury to persons, as well as causing pollution.

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



12.2 NOTES ON SUCTION AND DELIVERY LINES

DELIVERY EFFECTS ON FLOW RATE Length and diameter of pipe, flow rate of dispensed liquid, accessories fitted, can create back pressures above those allowed.

HOW TO REDUCE EFFECTS ON FLOW RATE CHARACTERISTICS OF DELIVERY PIPES - The delivery pipe must have the following technical characteristics: - recommended minimum nominal diameter: 3/4" - recommended nominal pressure: 10 bar

SUCTION FOREWORD Diaphragm positive-displacement pumps are self-priming and feature good suction capacity.

IMPORTANT NOTE Priming time can last a few minutes. We suggest performing priming operations without automatic nozzle and making sure the pump is properly wet.

WARNING 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.

CAVITATION The pump is able to work with vacuums of up to 0.5 bar at the suction mouth. Over this value, CAVITATION can occur that causes a fall in flow rate and increase in noise levels.

HOW TO PREVENT CAVITATION - It is important to ensure low vacuums at suction mouth by using: - short pipes with larger or identical diameter to that recommended - reduce bends to the utmost - use large-section suction filters - use foot valves with minimum possible resistance

WARNING - 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 fall within the 2 mt. maximum required for priming.

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.

CHARACTERISTICS OF THE SUCTION PIPES - The suction pipe must have the following technical specifications: - recommended minimum nominal diameter: 3/4" - recommended nominal pressure: 10 bar - use pipes suitable for low pressure operation (e.g. with metal core)

13 CONNECTIONS

13.1 ELECTRICAL CONNECTIONS

ATTENTION IT IS THE INSTALLER'S RESPONSIBILITY TO CARRY OUT THE ELECTRICAL CONNECTIONS IN COMPLIANCE WITH THE RELEVANT STANDARDS. Comply with the following (not exhaustive) instructions to ensure a proper electrical connection:

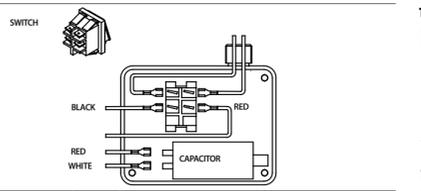
- During installation and maintenance make sure that power supply to the electric lines has been turned off.
- Use cables with minimum sections, rated voltages and installation type that are suitable for the characteristics indicated in paragraph "ELECTRICAL DATA" and the installation environment.
- Always make sure that the cover of the terminal strip box is closed before switching on the power supply, after having checked the integrity of the seal gaskets that ensure the IP55 protection grade.
- All motors are equipped with a grounding terminal that is to be connected to the ground line of the electrical system.

PUMP FITTINGS

The pump is fitted with: - single-phase motor with 2-mt. power cord - bipolar switch - capacitor

NOTE The capacitor characteristics are those indicated on the pump label. The switch has the only function of starting/stopping the pump and cannot in any way replace the main power switch required by the relevant standards.

ENGLISH (Translated from Italian)



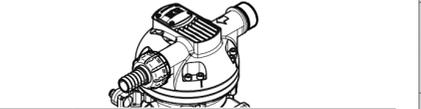
13.2 PIPING CONNECTIONS

FOREWORD - Before carrying out any connection, refer to the visual indications i.e. arrow on the pump head, to identify suction and delivery.

ATTENTION Wrong connection can cause serious pump damage.

PRELIMINARY INSPECTION - Before connection, make sure that the piping and the suction tank are free of dirt and solid residue that could damage the pump and its accessories.

NOTE If not already fitted, fit a suction filter



14 INITIAL START-UP

FOREWORD - Check that the quantity of fluid in the suction tank is greater than the amount you wish to transfer.

ATTENTION Do not run the pump dry for more than 20 minutes. This can cause serious damage to its components.

NOTE - Never start or stop the pump by connecting or cutting out the power supply. - Prolonged contact with some fluids can damage the skin. The use of goggles and gloves is recommended.

ATTENTION Extreme operating conditions with duty cycles longer than 20 minutes can cause the motor temperature to rise thus damaging the engine. For each duty cycle of 20 minutes, allow for a rest phase of 20 minutes with motor switched off.

ATTENTION During the priming phase, the pump must discharge all the air that is initially present from the delivery line. Therefore it is necessary to keep the outlet open to permit the evacuation of the air.

WARNING If an automatic type dispensing nozzle is installed on 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. It is recommended that the automatic nozzle be temporarily removed during initial start-up.

IF THE PUMP DOES NOT PRIME Depending on the system characteristics, the priming phase can last from several seconds to a few minutes. If this phase is prolonged, stop the pump and verify:

- that the pump is not running completely dry (fill with fluid from the delivery line);
- that the suction pipe guarantees against air infiltration;
- that the suction filter is not clogged;
- that the suction height is not higher than 2 mt.
- that all air has been released from the delivery pipe.

When priming has occurred, verify that the pump is operating within the rated range, in particular:

- that under conditions of maximum back pressure, the power absorption of the motor stays within the values shown on the identification plate;
- that the suction pressure is not greater than 0.5 bar;
- that the delivery back pressure does not exceed the maximum back pressure for the pump.

15 EVERY DAY USE

USE PROCEDURE 1 If flexible pipes are used, attach the ends of the piping to the tanks. In the absence of an appropriate slot, solidly grasp the delivery pipe before beginning dispensing.

2 Before starting the pump make sure that the delivery valve is closed (dispensing nozzle or line valve)

3 Turn the ON/OFF switch on

4 Open the delivery valve, solidly grasping the pipe

5 While dispensing, do not inhale the pumped product

6 Should you spill any fluid while dispensing, bank it with earth or sand to absorb it and limit its spreading

7 Close the delivery valve to stop dispensing

8 When dispensing is finished, turn off the pump

ATTENTION The by-pass valve allows functioning with delivery closed only for short periods (max. 3 minutes) To avoid damaging the pump, after use, make sure the pump is off. In case of a power break, switch the pump off straight away.

ENGLISH (Translated from Italian)

16 MAINTENANCE

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

Authorised maintenance personnel Measures to be taken 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.

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.

Long periods without the pump being used 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.

17 NOISE LEVEL

In normal operating conditions, noise emissions of all models do not exceed 70 dB at a distance of 1 metre from the electric pump.

18 PROBLEMS AND SOLUTIONS

For any problems contact the authorised dealer nearest to you.

Table with 3 columns: PROBLEM, POSSIBLE CAUSE, CORRECTIVE ACTION. Rows include: THE MOTOR IS NOT TURNING, THE MOTOR TURNS SLOWLY WHEN STARTING, LOW OR NO FLOW RATE, INCREASED PUMP NOISE, LEAKAGE FROM THE PUMP BODY, THE PUMP DOES NOT PRIME THE LIQUID.

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 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 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.

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.

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

Miscellaneous parts disposal

PIUSI Fluid Handling Innovation DIAPHRAGM PUMP AC POMPA A MEMBRANA AC

DEF3A-PUMP Installation, Use and Maintenance Manual (aka M0204 A)



BULLETIN M0204A.ITEN.USA..00

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IT: Il presente documento è stato redatto con la massima attenzione circa la precisione dei dati in esso contenuti. Tuttavia, PIUSI S.p.A. non si assume responsabilità per eventuali errori ed omissioni.

1 INDICE
2 IDENTIFICAZIONE MACCHINA E COSTRUTTORE
3 DICHIARAZIONE DI CONFORMITA'
4 MOVIMENTAZIONE E TRASPORTO
5 AVVERTENZE GENERALI
6 ISTRUZIONI DI SICUREZZA
7 NORME DI PRONTO SOCCORSO
8 NORME GENERALI DI SICUREZZA
9 DATI TECNICI
10 PRESTAZIONI
11 CONDIZIONI AMBIENTALI
12 ALIMENTAZIONE ELETTRICA
13 CICLO DI LAVORO
14 FLUIDI AMMESSI E NON AMMESSI
15 INSTALLAZIONE
16 POSIZIONAMENTO, CONFIGURAZIONI ED ACCESSORI
17 CONSIDERAZIONI SULLE LINEE DI MANDATA ED ASPIRAZIONE
18 COLLEGAMENTI E ALLACCIAMENTI
19 COLLEGAMENTI ELETTRICI
20 COLLEGAMENTO DELLE TUBAZIONI
21 AVVERTENZE E SOLUZIONI
22 USO GIORNALIERO
23 MANUTENZIONE
24 LIVELLO DEL RUMORE
25 PROBLEMI E SOLUZIONI
26 DEMOLIZIONE E SMALTIMENTO
27 VISTE ESPOSE
28 INGOMBRI

2 IDENTIFICAZIONE MACCHINA E COSTRUTTORE



MODELLI DISPONIBILI
120/230V AC
PIUSI USA, Inc.
3901 Anglers Ave.
Fort Lauderdale, Florida 33312

3 DICHIARAZIONE DI CONFORMITA'

La sottoscritta PIUSI USA, Inc.
3901 Anglers Ave.
Fort Lauderdale, Florida 33312
DICHIARA sotto la propria responsabilità, che l'apparecchiatura descritta in appresso:
Descrizione: Pompa destinata al travaso di DEF - Acqua
Modello: Pompa a membrana
Matricola riferirsi al Lot Number riportato sulla targh. CE apposta sul prodotto
Anno di costruzione: riferirsi all'anno di produzione riportato sulla targh. CE apposta sul prodotto.

4 DESCRIZIONE DELLA MACCHINA

POMPA MOTORE
Pompa a diaframma volumetrico a cinque camere.
Motore a spaziale alimentato con corrente continua in bassa tensione con ciclo intermittente, chiuso in fascia di protezione IP55 secondo CEI-EN 60335-5.

4.1 MOVIMENTAZIONE E TRASPORTO

PREMESSA
Dato il limitato peso e dimensione delle pompe, la movimentazione non richiede l'ausilio di mezzi di sollevamento.
IMBALLO
nome, codice, peso

Table with 3 columns: MODELLO, PESO (Kg), DIMENSIONI IMBALLO (mm). Row: SUZZARBLUE AC, 7, 350 X 180 X 280

5 AVVERTENZE GENERALI

Avvertenze importanti
Simbologia utilizzata nel manuale
Conservazione del manuale
Diritti di riproduzione

6 ISTRUZIONI DI SICUREZZA

ATTENZIONE Rete elettrica
Verificare preliminarmente all'installazione
Interventi di controllo manutenzione
INCENDIO E ESPLOSIONE
Quando presenti liquidi infiammabili nell'area di lavoro, possono essere presenti vapori infiammabili che durante l'uso della stazione possono provocare incendio o esplosione.
SHOCK ELETTRICO
Folgore o morte

9 DATI TECNICI PRESTAZIONI

Table with 6 columns: Punto di funzionamento, Portata, Temperatura (V), Assorbimento (A), 4 metri di tubo ca.1/4", Contattori/Kva, Pistola manuale, Pistola automatica.

Il diagramma delle prestazioni, mostra la portata in funzione della controspresione.
Parabola (litri/min)

ATTENZIONE
La curva si riferisce alle seguenti condizioni operative:
Fluido: AUS32 - DEF
Temperatura: 20 °C

CONDIZIONI OPERATIVE
11.1 CONDIZIONI AMBIENTALI
TEMPERATURA
UMIDITA' RELATIVA
ATTENZIONE

10 DATI ELETTRICI

Table with 4 columns: MODELLO POMPA, Alimentazione (Corrente, Voltaggio, Frequenza), Corrente Massima (A).

11 CONDIZIONI OPERATIVE

11.2 ALIMENTAZIONE ELETTRICA
La pompa deve essere alimentata da linea monofase in corrente alternata i cui valori nominali sono indicati nella tabella dei paragrafi "DATI ELETTRICI".

12 NORME DI PRONTO SOCCORSO

12.1 POSIZIONAMENTO, CONFIGURAZIONI ED ACCESSORI
Nel caso di installazione all'aperto occorre procedere alla protezione della pompa mediante la realizzazione di una tettoia di protezione.

13 COLLEGAMENTI E ALLACCIAMENTI

13.1 COLLEGAMENTO DELLE TUBAZIONI
PREMESSA
ATTENZIONE
CONTROLLI PRELIMINARI

14 FLUIDI AMMESSI E NON AMMESSI

FLUIDI AMMESSI - DEF, -ACQUA
FLUIDI NON AMMESSI E PERICOLOSI RELATIVI
- GASOLIO
- BENZINA
- LIQUIDI INFAMMABILI
- PRODOTTI CHIMICI CORROSIVI
- SOLVENTI
- LIQUIDI CON VISCOSITA' >20 cst.

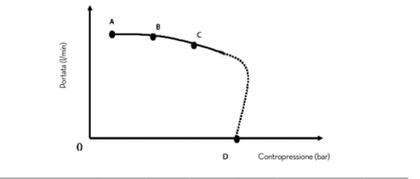
15 INSTALLAZIONE

ATTENZIONE
CONTROLLI PRELIMINARI
DOTAZIONE DELLA POMPA

ATTENZIONE
L'allacciamento tra spina e presa deve rimanere lontano dall'acqua.
Prolunghe non adatte possono risultare pericolose.
Per motivi di sicurezza si consiglia, in linea di principio, di utilizzare l'apparecchio solo con un interruttore differenziale (max 30mA).

9 DATI TECNICI PRESTAZIONI

Table with 6 columns: Punto di funzionamento, Portata, Temperatura (V), Assorbimento (A), 4 metri di tubo ca.1/4", Contattori/Kva, Pistola manuale, Pistola automatica.



ATTENZIONE
La curva si riferisce alle seguenti condizioni operative:
Fluido: AUS32 - DEF
Temperatura: 20 °C

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11.1 CONDIZIONI AMBIENTALI
TEMPERATURA
UMIDITA' RELATIVA
ATTENZIONE

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13 COLLEGAMENTI E ALLACCIAMENTI

13.1 COLLEGAMENTO DELLE TUBAZIONI
PREMESSA
ATTENZIONE
CONTROLLI PRELIMINARI

14 FLUIDI AMMESSI E NON AMMESSI

FLUIDI AMMESSI - DEF, -ACQUA
FLUIDI NON AMMESSI E PERICOLOSI RELATIVI
- GASOLIO
- BENZINA
- LIQUIDI INFAMMABILI
- PRODOTTI CHIMICI CORROSIVI
- SOLVENTI
- LIQUIDI CON VISCOSITA' >20 cst.

15 INSTALLAZIONE

ATTENZIONE
CONTROLLI PRELIMINARI
DOTAZIONE DELLA POMPA

12.1 POSIZIONAMENTO, CONFIGURAZIONI ED ACCESSORI

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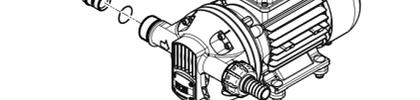
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15 INSTALLAZIONE



12.2 CONSIDERAZIONI SULLE LINEE DI MANDATA ED ASPIRAZIONE

MANDATA
INFLUENZE SULLA PORTATA
COME DIMINUIRE LE INFLUENZE SULLA PORTATA
CARATTERISTICHE DELLE TUBAZIONI DI MANDATA
ASPIRAZIONE
PREMESSA

13 COLLEGAMENTI E ALLACCIAMENTI

13.1 COLLEGAMENTO DELLE TUBAZIONI
PREMESSA
ATTENZIONE
CONTROLLI PRELIMINARI

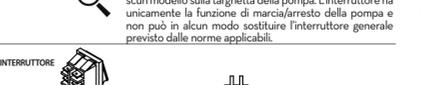
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15 INSTALLAZIONE

ATTENZIONE
CONTROLLI PRELIMINARI
DOTAZIONE DELLA POMPA

NOTA



13.2 COLLEGAMENTO DELLE TUBAZIONI

PREMESSA
ATTENZIONE
CONTROLLI PRELIMINARI

14 PRIMO AVVIAMENTO

PREMESSA
ATTENZIONE
AVVERTENZA
SE LA POMPA NON ADESCA

15 USO GIORNALIERO

PROCEDURA D'USO
1 Se si utilizzano tubazioni flessibili, fissare le estremità di queste ai serbatoi.
2 Prima di avviare la pompa assicurarsi che la valvola in mandata sia chiusa (pistola di erogazione o valvola di linea).
3 Azionare l'interruttore di marcia
4 Aprire la valvola in mandata, mantenendo salda l'impugnatura
5 Durante l'erogazione evitare l'innalzamento del prodotto pompato
6 Se durante l'erogazione dovesse esserci fuoriuscita del liquido pompato intervenire arginandolo con terra o sabbia per riassorbire e limitare lo spargimento
7 Chiudere la valvola in mandata per arrestare l'erogazione
8 Quando l'erogazione è completata spegnere la pompa

16 MANUTENZIONE

Avvertenze di sicurezza
Personale autorizzato agli interventi di manutenzione
Inutilità della pompa per lunghi periodi

17 LIVELLO DEL RUMORE

In normali condizioni di funzionamento, l'emissione di rumore di tutti i modelli non supera il valore di 70 dB alla distanza di 1 metro dall'elettropompa.

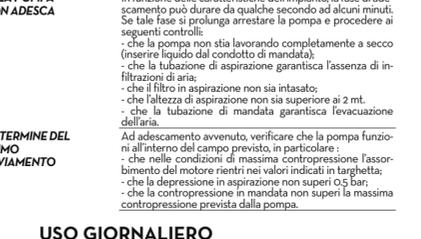
18 PROBLEMI E SOLUZIONI

Table with 3 columns: PROBLEMA, POSSIBILE CAUSA, AZIONE CORRETTIVA.

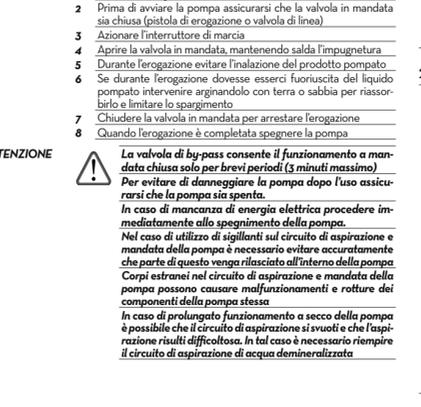
19 DEMOLIZIONE E SMALTIMENTO

Pressenza
Smaltimento dell'imballaggio
Smaltimento delle parti metalliche
Smaltimento dei componenti elettrici ed elettronici

20 VISTE ESPOSE / EXPLODED VIEWS



21 INGOMBRI / OVERALL DIMENSIONS



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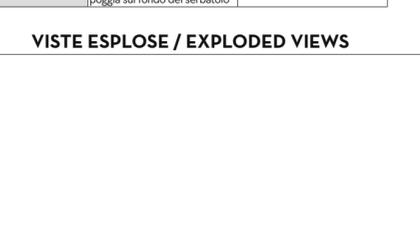
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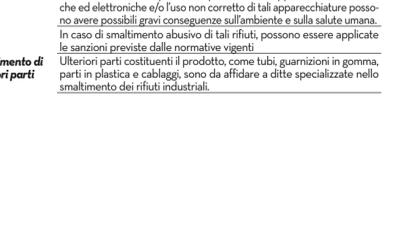
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