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INITIAL START-UP EVERY DAY USE MAINTENANCE NOISE LEVEL

PROBLEMS AND SOLUTIONS DEMOLITION AND DISPOSAL EXPLODED VIEWS **OVERALL DIMENSIONS**

MACHINE AND MANUFACTURER 2 **IDENTIFICATION**



MODELS PIUSI S.p.A. MANUFAC TURER Via Pacinotti Z.I. Rangavin

46029 Suzzara (MN) Italy **DECLARATION OF CONFORMITY**

The undersigned: PIUSI S.p.A

Via Pacinotti c.m.- z.i.Ranaavin

46029 Suzzara - (MN) - Italy Hereby states under its own responsibility, that the equipment described below Description : Pump for the transfer of diesel fuel Model : **E140**

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 is in conformity with the legal provisions indicated in the directives : - Machine Directive 2006/42/EC

Electromagnetic Compatibility Directive 2014/30/EU

The documentation 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: doc_tec@piusi.com The person authorised to compile the technical file and draw up the declaration is Otto Varini as legal representative

Suzzara, 01/02/2019

Ottober Otto Varini legal representative

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.

MACHINE DESCRIPTION

PUMP Self-Priming, volumetric, rotating electric vane pump, equipped with by-pass valve. Asynchronous motor, single-phase and three-phase, 2 pole, closed type (protection class IP55 in conformance with EN 60034-5-86 regulations) self-ventilated, directly flanged to the MOTOR pump body.

HANDLING AND TRANSPORT ⊿.1

DACKAG	

Foreword

he pump is equipped comes packed suitably for shipment. PACKAGING On the packaging a label shows the following product informa-

- code weight

Warnings

in the manual

PIUSI PIUSI

MODEL WEIGHT (Kg) E 140

ATTENTION

WARNING

of Piusi S.p.A.

GENERAL WARNINGS

To ensure operator safety and to protect the dispensing sys- **8** tem from potential damage, workers must be fully acquainted with this instruction manual before attempting to operate the dispensing system. wing symbols will be used throughout the manual to highlight safety information and precautions of particular

PACKAGING

DIMENSION(mm

350 x 250 x 30

0

Manual pres ervation

This symbol indicates that there is risk of damage to the equipment and/or its components. This symbol indicates useful information. This manual should be complete and leaible throughout. If 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

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before installation Before any checks or maintenance work are carried out, dis-Maintenance connect the power source. control FIRE AND To help prevent fire and explosion: EXPLOSION Use equipment only in will ventilated area. When flam Keep work area free of debris, including rags and spilled or mable fluids open containers of solvent and gasoline. are present in are present in the work area,) Do not plug or unplug power cords or turn lights on or off when flammable fumes are present. such as gasoline Ground all equipment in the work area. and windshield wiper fluid, be Stop operation immediately if static sparking occurs or if you feel a shock. Do not use equipment until you identify and aware that flam correct the problem. mable fumes Keep a working fire extinguisher in the work area. can ignite or ex-This equipment must be grounded. Improper grounding, ELECTRIC etup or usage of the system can cause electric shock. SHOCK urn off and disconnect power cord before servicing equip-Electrocutio Connect only to a grounded electrical outlets. Ŀ or death Use only 3 wire extension cords in accordance with local electrical codes. Extension cords should have a ground lead. Ensure ground prongs are intact on power and extension Do not expose to rain. Store indoors. Never touch the electric plug of socket with wet hands. Do not turn the dispensing system on if the power connec-tion cord or other important parts of the apparatus are damaged, such as the inlet outlet plumbing, dispensing nozzle or safety devices. Replace damaged components before op-Before each use check that the power connection cord and power plug are not damaged. If damaged, have power con-nection cord replaced before use by a qualified electrician. The electrical connection between the plug and socket must be kept well away from water. Unsuitable extension leads can be hazardous, in accordance with current regulations. only extension cords that are la-belled for outdoor use and have a sufficient conduction path should be used outdoors. For safety reasons, we recommend that, in principle, the equip ment be used only with a earth-leakage circuit breaker (max 30

Mains - pre-

iminary checks

Electrical connections must use ground fault circuit interrupter (GFCI). Installation operations are carried out with the box open and

ENGLISH (Translated from Italian)

You must avoid any contact between the electrical

• power supply and the fluid that needs to be FILTERED.

SAFETY INSTRUCTIONS

ATTENTION

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. o not leave the work area while equipment is energized or under pressure.

urn off all equipment when equipment is not in use. Do not alter or modify equipment. 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 equip-

Keep children and animals away from work area. Comply with all applicable safety regulations.

Do not exceed the maximum operating pressure or the temerature 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 wet-

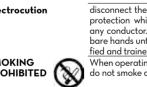
ted part of the system. See Technical Data in all equipment manuals. Read the manufacturer's instructions of the fluids and solvents. For more information on the material, request the safety data sheet (MSDS) from the distributor or dealer. Check the equipment every day. Immediately repair or replace worn or damaged parts only with original spare parts of the manufacturer. Make sure the equipment is classified and approved compli-

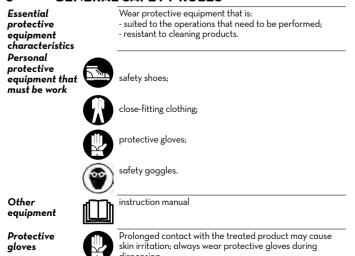
ant with the standards of the environment where it is used. Jse the equipment only for the intended use. Contact your distributor for more information. Keep hoses and cables far from traffic areas, sharp edaes.

moving parts and hot surfaces. o not bend or overbend the hoses or use the hose to pull the equipment. Read MSDS's to know the specific hazards of the fluids you are

Store hazardous fluid in approved containers, and dispose of Prolonged contact with the treated product may cause skin

FIRST AID RULES





7	IEC									11.2	
								ج ب ا		DELIVE	
6		hou	tion			Nominal Flow Rate (I/min)	Operating pressure (bar)	Type of Service (S1- continuous; S3-peri- odic intermittent)	Motor Protection	EFFECT FLOW F	
Modell Voltage		(Hz)	Absorption (A)	Power (V)	MAN					HOW TO REDUCE EFFECT	
E140 2 ATTENTIC	30 DN	50	5,7	1150	1450	140	2	S1 red data	IP55	FLOW R	
ATTENTIC		\mathbb{N}	Fluid			Diese 20°C		ea aata		SUCTIC Forewor	
			Suct tion	ion Con relative of 0.3	ditions: to the	fluid le	vel is su	l the pun uch that he nomir	a pres-		
			valu com tain redu by fo	es can l pared to the bes ce loss ollowing	be crea o the sar of perfor of suctio these in	ted tha me back rmance, on press nstructi	t reduc pressu it is ve ure as n ons:	higher p e the fle re values ry impo nuch as p as possi	ow rate s. To ob- rtant to possible	NOTE	
			• Kee • Use	ep the s a tube	uction fi	ilter cle diamet	an er equa	in the tu al to, or		WARNII	NG
							S			CAVITA	TION
TEMPERA			min.	-4 °F / m	nax +140)∘F	-			HOW T	•
RELATIVE				<u>20 °C / m</u> 90%	nax +60 °C	2				PREVEN	T
HUMIDITY ATTENTIC			The	temper	ature li	mits she	own app	ply to th	e pump	CAVITA	non
		<u>/!</u> \			and mi e or ma			ed to ave	oid pos-		
10.2	ELE	CTRIC		OWE	R SUP	PLY				WARNII	NG
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				maximun		able var	iations fi	rom the e	electrical		
			Volto		6 of the n					ATTEN	ΓΙΟΝ
ATTENTIC	N	\mathbf{A}	Powe	er from li		values o	utside th	ne indicat	ed limits		
		<u>/!</u> \	can a	lamage	the elect	rical cor	nponent	s.			
10.3	DUT	үсү	CLE							10	co
NOTE		$\widehat{+}$						or continu	ous use	12	12.1
			•		ons of mo					ATTENI	ION
ATTENTIC	N	\wedge						tions is a ax. 3 min			
		<u> </u>	»							WARNII	٩G
10.4 FLUIDS	PER							at a temp			
PERMITTE	ED		6°C), M					cording to		ATTENI	ION
FLUIDS NO		- GASC			IDS with	=	- EXPLO - EXPLO				
AND RELATED		PM < 5	5°C		TY > 20 cS						
DANGERS	5	- WATE	ĒR			- PUM	P OXIDA	TION			
		- COR		CHEMIC	CAL	- PUM	CORR	ION OF TH OSION - I			
		- SOLV					RSONS - EXPLO	SION - D	AMAGE		
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11	INST	TALL	ΑΤΙΟ	N							
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PRELIMIN INSPECTI			ing p	arts from	the mar	nufacture	r.	Request o			
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	\checkmark	J						ery inlets ging mate			

ENGLISH (Translated from Italian)

TECHNICAL DATA



In the case of installation in the open air, proceed to 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

THE MOTORS ARE NOT OF THE ANTI-EXPLO-SIVE-TYPE. Do not install them where inflammable vapours could be present.

The broad range of pump accessories make it suitable for many different uses, installations and applications. he supporting base can be positioned in different ways. The pumps are furnished without line acces-sories. Folowing is a list of the most common line accessories whose use is compatible with the proper functioning of the pumps. DELIVERY

	SUCTION
spensing	- Foot valve with filter
	- Rigid and flexible tubing
nsing nozzle	- Pump suction filter
e tubing	

cause injury to persons, as well as causing pollution. To maximise performance and prevent damage that could affect pump operation, always demand original accessories.





SINGLE-PHASE

MOTORS

NOTE



OR FUMES HAZARD

EQUIPMENT

MISUSE

Misuse car

or serious

injury

cause death























Protective aloves

protective characteristic Personal protective equipment that This symbol indicates safe working practices for op-erators and/or potentially exposed persons. must be work

irritation: always wear protective gloves during dispensing. disconnect the unit from the mains, or use a dry insulator as protection while moving the electrocuted person far from any conductor. Do not touch the electrocuted person with bare hands until he/she is far from any conductor. Ask qualinen operating the pump and in particular during refuelling,

do not smoke and do not use open flame.

ied and trained people for help immediately

it according to applicable guidelines.

NOTE \bigcirc

ATTENTION

NOTE

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ATTENTION

ATTENTION

utomatic dispensing zzle	 Foot valve with filter Rigid and flexible tubing 					
lanual dispensing nozzle	- Pump suction filter					
NeterFlexible tubing						
s the responsibility of the installer to provide th						
s the responsibility of t	ne matuner to provide th					
	es to ensure the correc					
cessary line accessori						
cessary line accessori d safe operation of th	es to ensure the correc					

ENGLISH (Translated from Italian)

11.2 NOTES ON SUCTION AND DELIVERY LINES

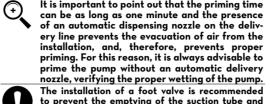
The choice of pump model must be made keepingthe characteristics of the system in mind. Length and diameter of pipe, flow rate of dispensed liquid, acces sories fitted, can create back pressures above those allowed. In this case, the pump mechanical control (bypass) will trip to reduce the flow rate

To avoid these problems, system flow resistances must be reduced using shorter and/or larger diameter pipes, as well as line accessories with low resistances (e.g., automatic nozzle for higher flow rates).

The pumps are self-priming and characterized by good suction capacity. During the start-up phase, with an empty suction tube and the pump wetted with fluid, the electric pump unit is capable of suctioning the liquid with a maximum difference in height of 2 meters.

It is important to point out that the priming time

on, and, therefore, prevents proper



to prevent the emptying of the suction tube and keep the pump wet. In this way, the pump will subsequently always start up immediately. When the system is functioning, the pump can work with pressure at the inlet as high as 0.5 bar, beyond which cavitation phenomena can begin, with a consequent loss of flow rate and increase of system noise and pump damage. .

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

- keep the suction filters clean because, when they become clogged, they increase the resistance of the system.

The difference in height between the pump and the fluid level must be kept as small as possible and, at any rate, within the 2 meters anticipated for the priming phase. If this height is exceeded, it will always be necessary to install a foot valve to allow for the filling of the suction tube and provide tubing of wider diameter. It is recommended that the pump not be installed at a difference in height greater than 3 meters.

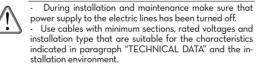
In the case that the suction tank is higher than the pump, it is advisable to install an anti-siphon valve to prevent accidental diesel fuel leaks. Dimension the installation in order to control the back pressures due to water hammering.

CONNECTIONS

ELECTRICAL CONNECTIONS IT IS THE INSTALLER'S RESPONSIBILITY TO CARRY OUT THE ELECTRICAL CONNECTIONS

IN COMPLIANCE WITH THE RELEVANT STAN-

Comply with the following (not exhaustive) nstructions to ensure a proper electrical connec-



indicated in paragraph "TECHNICAL DATA" and the installation environmen 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 en-sure the IP55 protection grade.

All motors are equipped with a grounding terminal that is to be connected to the ground line of the electrical sys-

- Verify that the terminal strip blades are positioned according to the diagram provided for the available power supply voltage. - Verify the correct direction of rotation of the

motor (see the paragraph overall dimensions), and, if not correct, invert the connection of the two cables in the power supply plug or on the terminal strip.

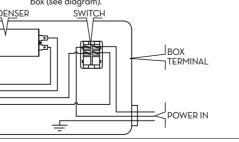
- The pumps are supplied without electrical safety equipment such as fuses, motor protectors, systems to prevent accidental restarting after power failures or others. It is indispensable to install an electric panel, upstream from the pump's power supply line, equipped with an appropri-ate residual current operated circuit breaker. It is the installer's responsibility to perform the electrical connections with respect for the applicable regulations.

The characteristics of the capacitor are shown on the dentification plate for each pump model. he switch has the sole function of starting/ stopping the pump and cannot in any way substitute for the main circuit breaker provided for in the applicable regulations.

Verify that the terminal strip blades are posied according to the diagram p

• available power supply voltage. Single-phase motors are supplied with a pre-existing 2 meter cable with electric plug. To change the cable, open the terminal strip cover and connect the line according to the following diagram.

Single-phase motors are supplied with a bi-polar switch and capacitor wired and installed inside the terminal strip box (see diagram).



ENGLISH (Translated from Italian)

12.2 PIPING CONNECTIONS

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

PRELIMINARY - Check that the machine has not suffered any damage during INSPECTION transport or storage. Clean the inlet and outlet openings, removing any dust or residual

packina material. Make sure that the motor shaft turns freely. - Check that the electrical specifications correspond to those shown

on the identification plate. - Before connection, make sure that the tubing and the suction tank CONNECTING are free of dirt and thread residue that could damage the pump and its accessories.

Before connecting the delivery tube, partially fill the pump body with diesel fuel to facilitate priming. - Do not use conical threaded joints that could damage the thread-

- ed pump openings if excessively tightened. Minimum recommended nominal diameter: 1" 1/2
- Nominal recommended pressure: Use tubing suitable for functioning under suction pres-
- Use tubing suitable to resist back pressures of O.8 bar - Minimum recommended nominal diameter: 1' - Nominal recommended pressure: 10 BAR
- It is the installer's responsibility to use tubing with
- adequate characteristics. The use of tubing unsuitable for use with Diesel fuel can damage the pump, injure persons and cause pollution. Loosening of the connections (threaded connections, flanging, gasket seals) can cause serious ecological and safety problems. Check all the connections after the initial instal-lation and on a daily basis after that. Tighten the connections if accordary

connections, if necessary. To connect the Piusi stem connection flanges, use M8 screws with a torque of 25 Nm $(\overline{+})$

INITIAL START-UP

- Check that the quantity of fluid in the suction tank is greater than the amount you wish to transfer. - Make sure that the residual capacity of the delivery tank is greater than the quantity you wish to transfer. Make sure that the piping and line accessories are in good condition.

Always install a suction filter to protect the pump. Do not run the pump dry for more than 20 minutes. This can cause serious damage to its components. Fluid leaks can damage objects and injure persons. Never start or stop the pump by connecting or cut

ting out the power supply - Single-phase motors are provided with an automatic mal protection switch.

Extreme operating conditions can raise the motor temperature and, consequently, cause the thermal protection switch to stop it. Turn off the pump and wait for it to cool before resuming use. The ther-mal protection automatically turns off when the motor is sufficiently cool.

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.

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 tem-porarily removed during initial start-up.

Depending on the system characteristics, the primin 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 rom 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 anticipated 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.

EVERY DAY USE

If using flexible tubing, attach the ends of the tubing to the USE PROCEtanks. In the absence of an appropriate slot, solidly grasp the delivery tube before beginning dispensing.

- Before starting the pump make sure that the delivery valve is closed (dispensing nozzle or line valve).
- 3 Turn the ON/OFF switch to ON. The by-pass value allows functioning with the delivery closed for only brief periods.
- Open the delivery valve, solidly grasping the end of the tub-
- Close the delivery valve to stop dispensing.

When dispensing is finished, turn off thepump. 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. Functioning with the delivery closed is only allowed for brief periods (2-3 minutes maximum). After

use, make sure the pump is turned off. A lack of electric power, with the consequent accidental stopping of the pump, can be caused by:

A safety device tripping

- A drop in line voltage n either case, act as follow
- Close the delivery valve Attach the end of the delivery to the slot provided on
- the tank Turn the ON/OFF switch to the OFF position.
- Resume operations as described in Paragraph DAILY USE, after determining the cause of the stoppage.

ENGLISH (Translated from Italian)

MAINTENANCE 15

Safety instruc- E140 pump is designed and constructed to require a minimum 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) i compulsory. In any case always bear in mind the following basic recommenda tions for a good functioning of the pump All maintenance must be performed by qualified personnel. Tamper Authorised ing can lead to performance degradation, danger to persons and/or property and may result in the warranty being voided. personnel Check that the pipe connections are not loose to prevent any leaks; ONCE A Check and keep the filter installed on the suction line clean. WEEK:

ONCE A Check the pump body and keep it clean and free of any impurities MONTH: Check and keep the pump filter clean and any other filters installed. Check that the electrical supply cables are in good condition.

NOISE LEVEL 16

In normal operating conditions, noise emissions of all models do not exceed 74 dB at a distance of 1 metre from the electric pump.

	ict the authorised dealer neares			
PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION		
	Lack of electric power	Check the electrical connec- tions and the safety systems.		
THE MOTOR IS	Rotor jammed	Check for possible damage or obstruction of the rotating components.		
NOT TURNING	The motor protecting ther- malswitch has tripped	Wait for the motor to cool, verify that it restarts, and research the cause of the overheating		
	Motor problems	Contact the Service Depart- ment		
THE MOTOR TURNS SLOWLY WHEN STARTING	Low voltage in the electric powerline	Bring the voltage back with- in 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		
	Excessive suction pressure	Lower the pump with re- spect to the level of the tank or increase the cross-section of the tubing		
	High loss of head in the circuit(working with the by- pass open)	Use shorter tubing or of greaterdiameter		
LOW OR NO FLOW RATE	By-pass valve blocked	Dismantle the valve, clean and/or replace it		
	Air entering the pump or thesuction tubing	Check the seals of the con- nections		
	A narrowing in the suction tubing	Use tubing suitable for workingunder suction pres- sure		
	Low rotation speed	Check the voltage at the pump. Adjust the voltage and/or use cablesof greater cross-section		
	The suction tubing is resting on the bottom of the tank	Raise the tubing		
	Cavitation occurring	Reduce suction pressure		
INCREASED PUMP	Irregular functioning of the	Dispense until the air is purged		
NOISE	by-pass	from the circuit		
	Air present in the diesel fuel	Verify the suction connec- tions		
LEAKAGE FROM THE PUMP BODY	Seal damaged	Check and replace the me- chanical seal		
	Suction circuit blocked	Remove the blockage from the suction circuit		
THE PUMP DOES	Malfunction of foot valve fitted on suction circuit	Replace foot valve		
LIQUID	The suction chambers are dry	Add liquid from pump delivery side		
	The pump chambers are dirty or blocked	Remove the blockages from the suction and delivery valves		

DEMOLITION AND DISPOSAL

If the system needs to be disposed, the parts which make it up must Foreword be delivered to companies that specialize in the recycling and disposal of industrial waste and, in particular: The packaging consists of biodegradable cardboard which can be Disposing of packing materi- delivered to companies for normal recycling of cellulose.

> Metal parts, whether paint-finished or in stainless steel, can be consigned to scrap metal collectors. e 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).

Metal Parts

Disposal

Disposal of

electronic

for clients

Miscellaneous

parts disposal

electric and

18

European Directive 2012/19/EU requires that all equipment marked Inforwith this symbol on the product and/or packaging not be disposed of together with non-differentiated urban waste. The symbol indihe mation cates that this product must not be disposed of together with normal regard-ing the 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 residing within government or the local governing authorities. Disposing of RAEE equipment as household wastes is strictly forbid the European den. Such wastes must be disposed of separately.

Any hazardous substances in the electrical and electronic appliance es 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 appli

cable 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 disposa of industrial waste.

15 Fluid Handling Innovation

EN. This document has been drawn upwith the greatest attention to precision and accuracy of all data herein contained. Nevertheless, PIUS

piusi.com

BULLETIN MO538 ITEN _ OO









SUCTION

TUBING

DELIVERY

NOTE

FOREWORD

ATTENTION

ATTENTION

NOTE

13

ATTENTION



IF THE PUMP DOES NOT

14

DURE

ATTENTION

LACK OF

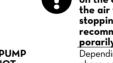
POWER

ELECTRIC

TIAL START-UP









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