



Pneumatic Hoist

Twin Mast for 30 litres Drums

Bi-Manual Control
Heated plate
Flow regulator



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This manual is to be considered as an English language translation of the original manual in Italian. The manufacturer shall bear no responsibility for any damages or inconveniences that may arise due to the incorrect translation of the instructions contained within the original manual in Italian.

Due to a constant product improvement programme, the factory reserves the right to modify technical details mentioned in this manual without prior notice.

PNEUMATIC HOIST

Twin Mast for 30 litres Drums with Two-Hand Control




















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**WE ADVISE THE USE OF THIS EQUIPMENT ONLY BY PROFESSIONAL OPERATORS.
ONLY USE THIS MACHINE FOR USAGE SPECIFICALLY MENTIONED IN THIS MANUAL.**

Thank you for choosing a **SAMOA** product.
As well as the product purchased, you will receive a range of support services
enabling you to achieve the results desired, quickly and professionally.

A WARNINGS

The table below provides the meaning of the symbols used in this manual in relation to using, earthing, operating, maintaining, and repairing of this equipment.

	<ul style="list-style-type: none"> • Read this operator's manual carefully before using the equipment. • An improper use of this machine can cause injuries to people or things. • Do not use this machine when under the influence of drugs or alcohol. • Do not modify the equipment under any circumstances. • Use products and solvents that are compatible with the various parts of the equipment, and read the manufacturer's warnings carefully. • See the Technical Details for the equipment given in the Manual. • Check the equipment for worn parts once a day. If any worn parts are found, replace them using ONLY original spare parts. • Keep children and animals away from work area. • Comply with all safety standards.
	<ul style="list-style-type: none"> • It indicates an accident risk or serious damage to equipment if this warning is not followed.
	FIRE AND EXPLOSION HAZARD
	<ul style="list-style-type: none"> • Solvent and paint fumes in work area can ignite or explode. • To help prevent fire and explosion: <ul style="list-style-type: none"> - Use equipment ONLY in well ventilated area. - Eliminate all ignition sources, such as pilot lights, cigarettes and plastic drop cloths (potential static arc). - Ground equipment and conductive objects. - Use only grounded hoses. • Do not use trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminium equipment. Such use can cause serious chemical reaction and equipment rupture, and result in death, serious injury, and property damage. • Do not form connections or switch light switches on or off if the air contains inflammable fumes. • If electrical shocks or discharges are encountered the operation being carried out using the equipment must be stopped immediately. • Keep a fire extinguisher at hand in the immediate vicinity of the work area.
	
	
	<ul style="list-style-type: none"> • It indicates wound and finger squashing risk due to movable parts in the equipment. • Tenersi lontano dalle parti in movimento. • Do not use the equipment without the proper protection. • Before any inspection or maintenance of the equipment, carry out the decompression procedure explained in this manual, and prevent any risk of the equipment starting unexpectedly.
	<ul style="list-style-type: none"> • Report any risk of chemical reaction or explosion if this warning has not been given.
	<ul style="list-style-type: none"> • (IF PROVIDED) There is a risk of injury or serious lesion related to contact with the jet from the spray gun. If this should occur, IMMEDIATELY contact a doctor, indicating the type of product injected. • (IF PROVIDED) Do not spray before the guard has been placed over the nozzle and the trigger on the spray gun. • (IF PROVIDED) Do not put your fingers in the spray gun nozzle. • Once work has been completed, before carrying out any maintenance, complete the decompression procedure.
	<ul style="list-style-type: none"> • It indicates important recommendations about disposal and recycling process of products in accordance with the environmental regulations.
	<ul style="list-style-type: none"> • Mark any clamps attached to earth cables. • Use ONLY 3-wire extension cords and grounded electrical outlets. • Before starting work make sure that the electrical system is grounded and that it complies with safety standards. • High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. • To help prevent injection, always: <ul style="list-style-type: none"> - (IF PROVIDED) Engage trigger lock when not spraying. - (IF PROVIDED) Do not put your hand over the spray tip. Do not stop or deflect leaks with your hand, body or other. - (IF PROVIDED) Do not point gun at anyone or at any part of the body. - (IF PROVIDED) Never spray without tip guard. - Do pressure relief if you stop spraying or being servicing sprayer and before any maintenance operations. - Do not use components rated less than sprayer Maximum Working Pressure. - Never allow children to use this unit - (IF PROVIDED) Brace yourself; gun may recoil when triggered.
	
	
	
	<p>If high pressure fluid pierces your skin, the injury might look like "just a cut", but it is a serious wound! Get immediate medical attention.</p>
	
	
	
	<ul style="list-style-type: none"> • It is obligatory to wear suitable clothing as gloves, goggles and face shield. • Wear clothing that complies with the safety standards in force in the country in which the equipment is used. • Do not wear bracelets, earrings, rings, chains, or anything else that may hinder the operator's work. • Do not wear clothing with wide sleeves, scarves, ties, or any other piece of clothing that could get tangled up in moving parts of the equipment during the work, inspection, or maintenance cycles.

B PRINCIPLE OF OPERATION

This type of mast hoist to pneumatic elevation lift the pneumatic piston transfer pumps series *Nova*, *Omega*, *Vega*, *Ghibli*.

The use of hoist allows you to drive the pump suction unit during aspiration produced directly within 30 litres drums.

This system allows to transfer the materials from storage container directly to the area of application in a safe and clean.

A safe and reliable system allows in just a few minutes to replace the barrel empty with the new one.

Suction pump at the base of the unit is fitted with a pressure plate that is used to compress the material thus ensuring a steady stream during use.

Pneumatic piston pumps are able to transfer highly viscous products as these "flow" naturally towards the inlet pressure and the suction valve thanks to the plate to plate, so that the pump starts to cavitate resulting in bomb disposal. Are suitable for pumping highly viscous products.

The pressure plate has a series of flat gaskets or special high strength rubber anti-oil toroidal thus ensuring a perfect protection of the product contained in the cask from contamination by dust, moisture and avoid drying caused by contact with the air.

The hoist is automatically compensates for the pressure plate when using this product.

Below shows the main steps of the working principle of the hoist

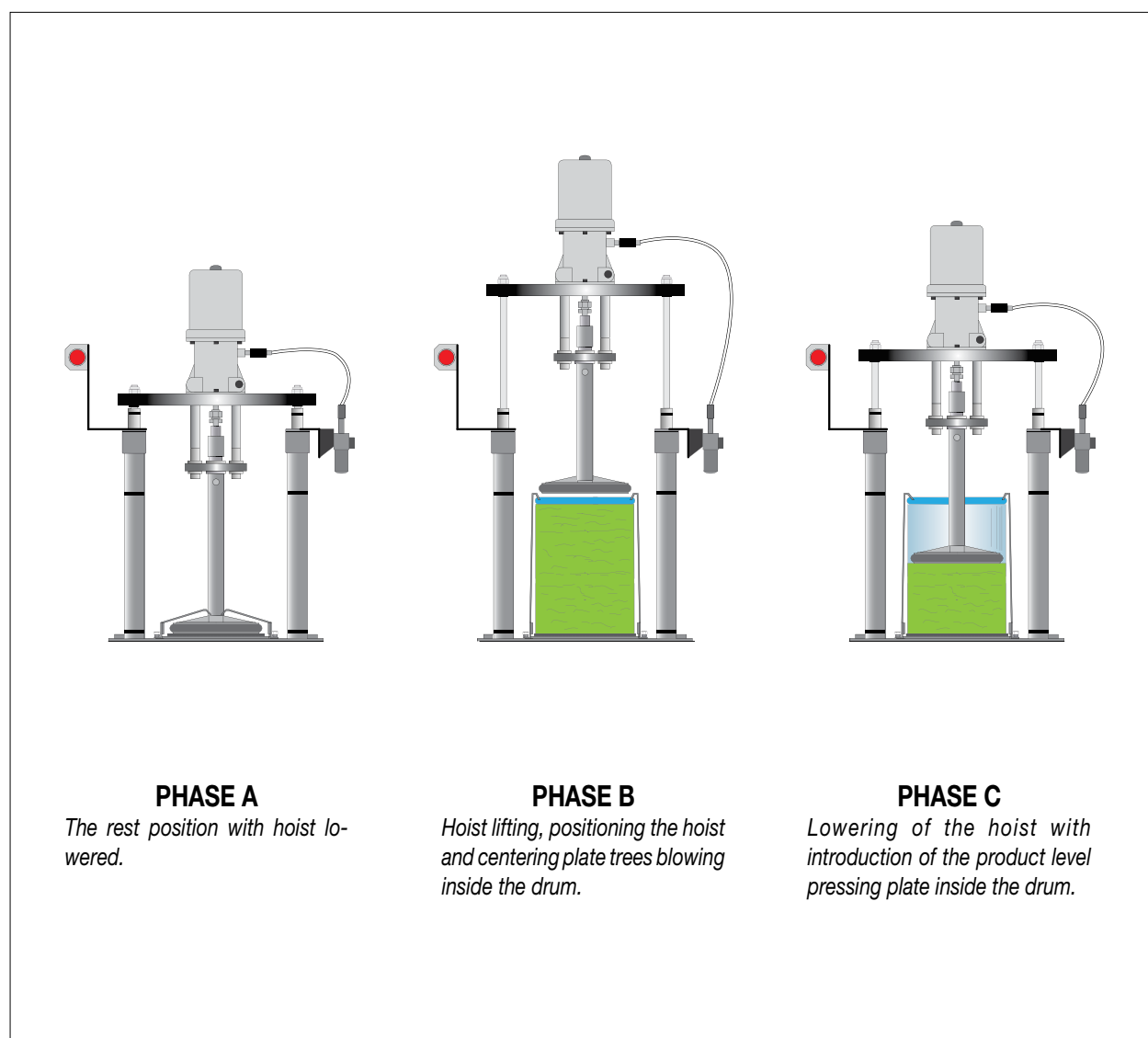


Fig. 1B

C TECHNICAL DATA

PNEUMATIC HOIST 30	
Max. air pressure	7 Bar
Air inlet diameter	3/8"
Weight	50 Kg
Ground fixing	N° 4 bulloni expansion bolts
Type of drum	30 litre
Length	(A) 670 mm
Height	770 mm (closed) (B) 1210 mm (open) 1580 mm (open with pump GHIBLI 26:1) 1700 mm (open with pump NOVA 55:1)
Width	(C) 450 mm
Pump type	NOVA 55:1 OMEGA 28:1 OMEGA 40:1 SIRIO 22:1 SIRIO 33:1 SIRIO 60:1 GHIBLI 26:1 VEGA 45:1

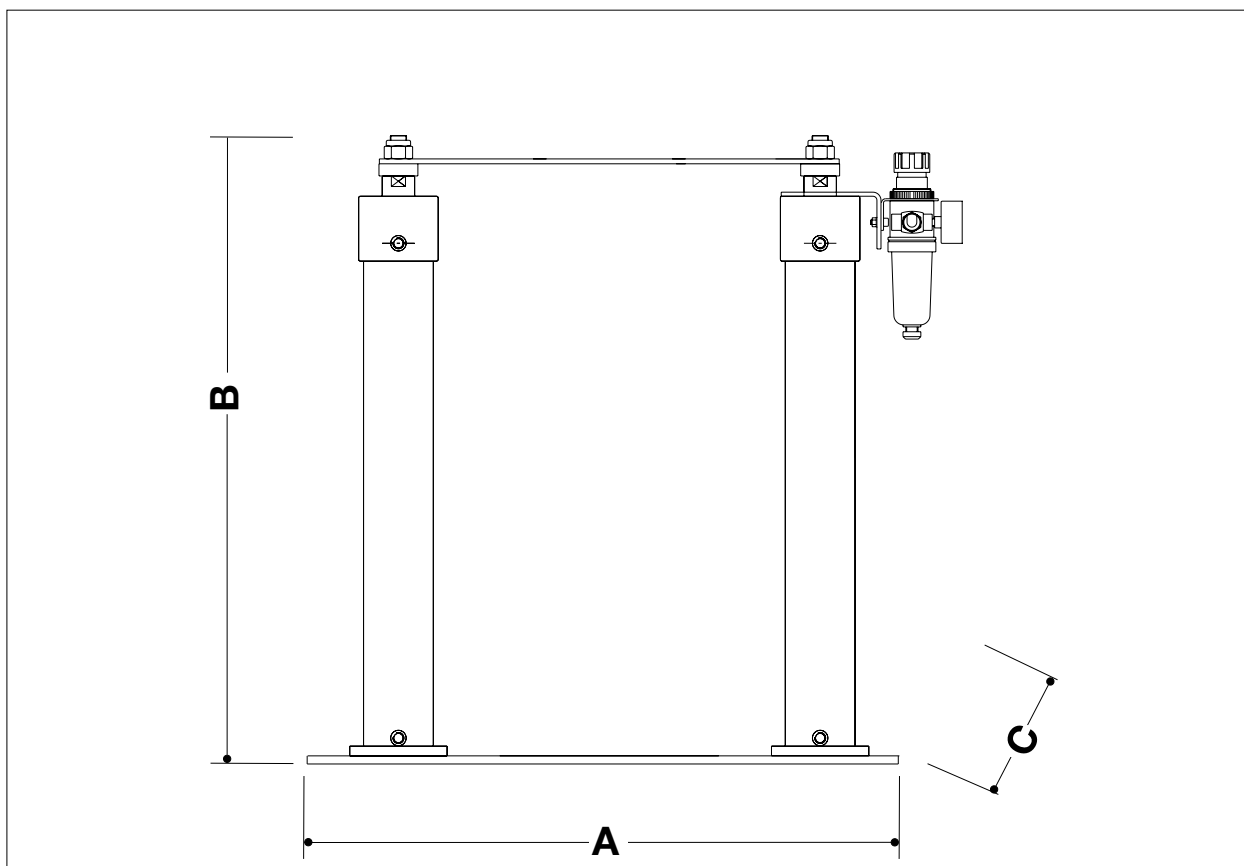
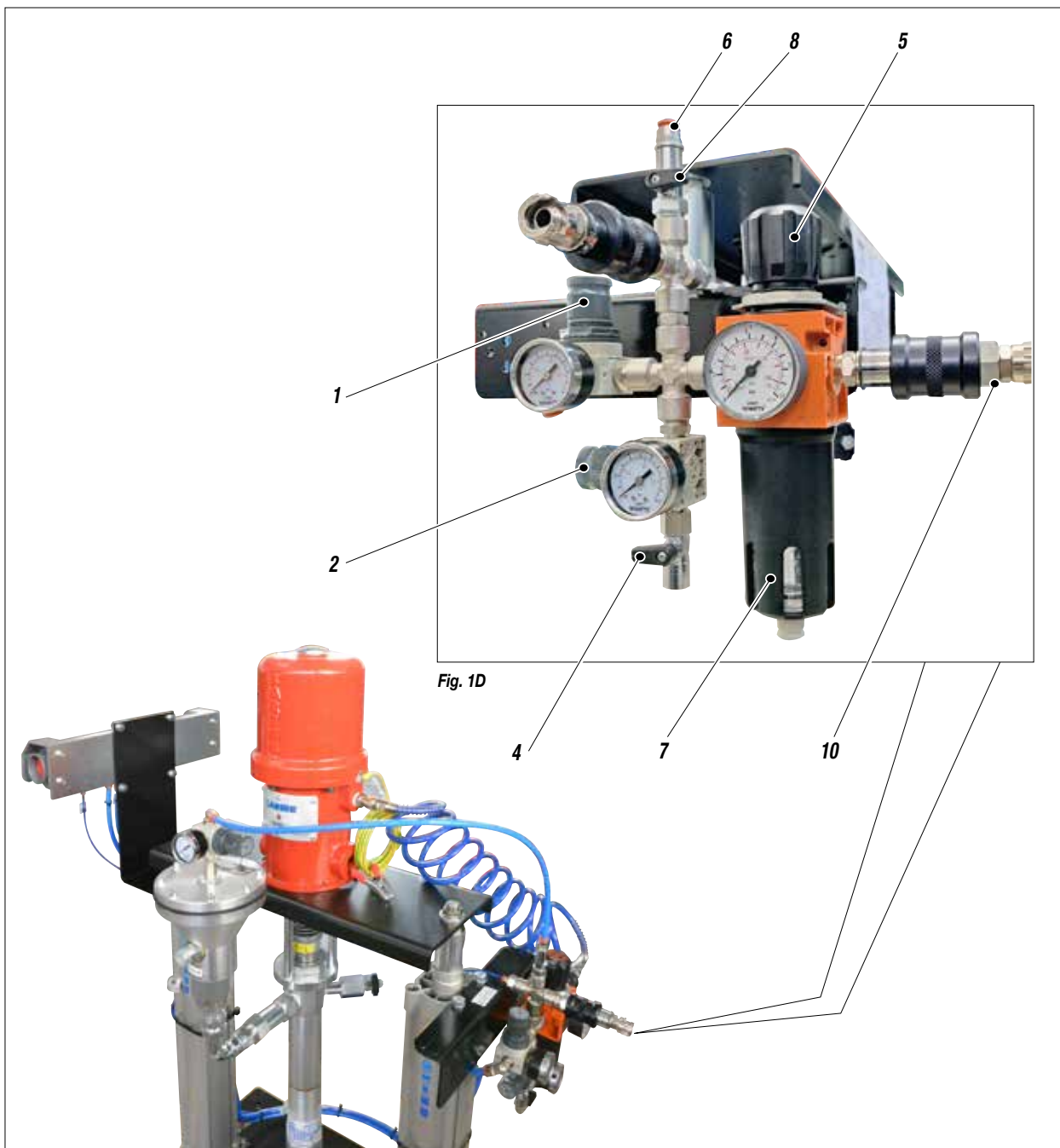


Fig. 1C

D EQUIPMENT DESCRIPTION



Pos.	Description
1	Lifting cylinder pressure regulator
2	Follower plate air pressure regulator
3	Automatic follower plate air inlet valve (optional)
4	Manual follower plate air inlet valve
5	Pump air pressure regulator
6	Main air supply

Pos.	Description
7	Air filter
8	Manual main air valve
9	Safety valve (optional)
10	Air pump delivery
11	Air pump delivery solenoid valve or pneumatic valve (optional)

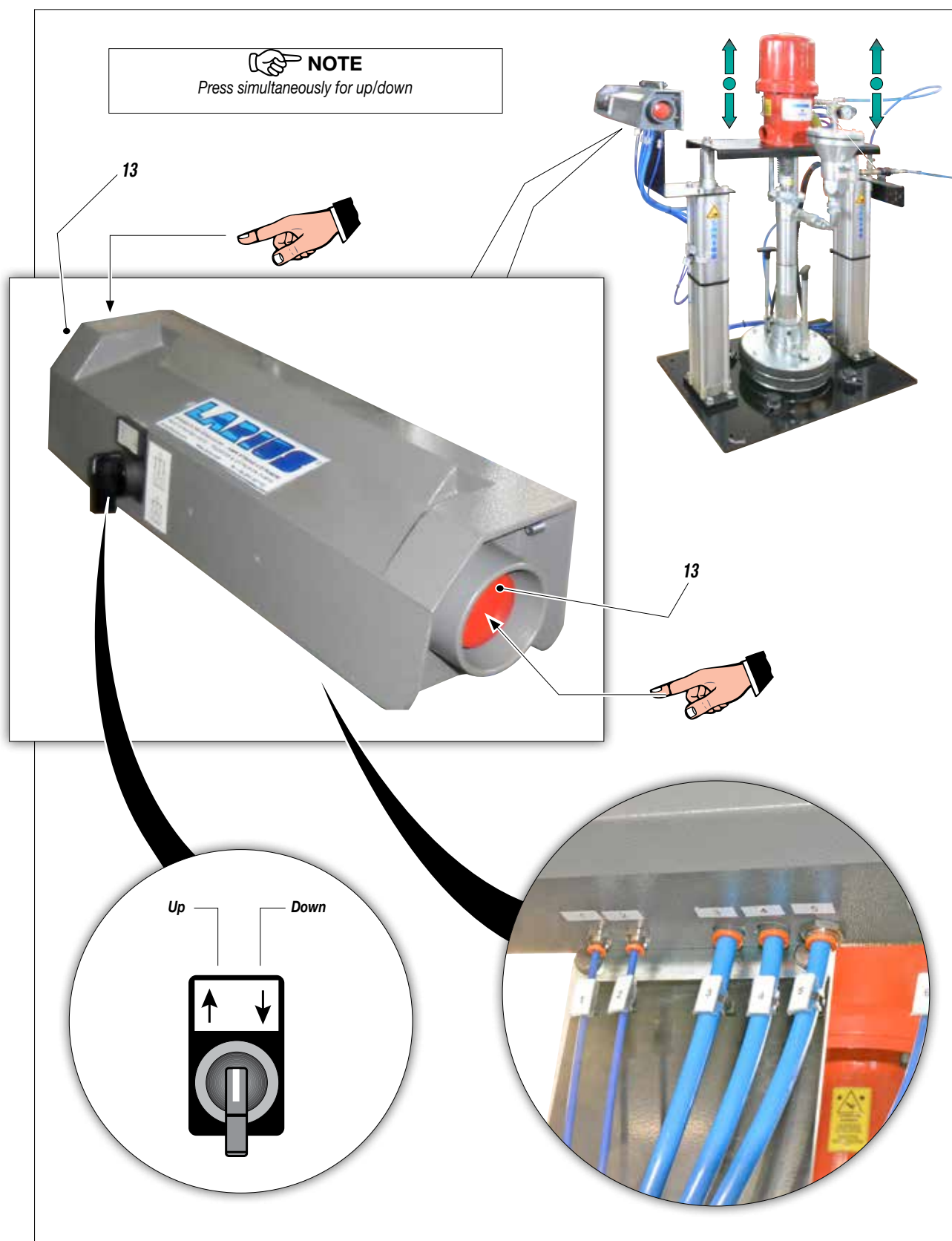


Fig. 2D

Pos.	Description
12	Up-Down selector switch

Pos.	Description
13	Bi-manual Up / Down control buttons

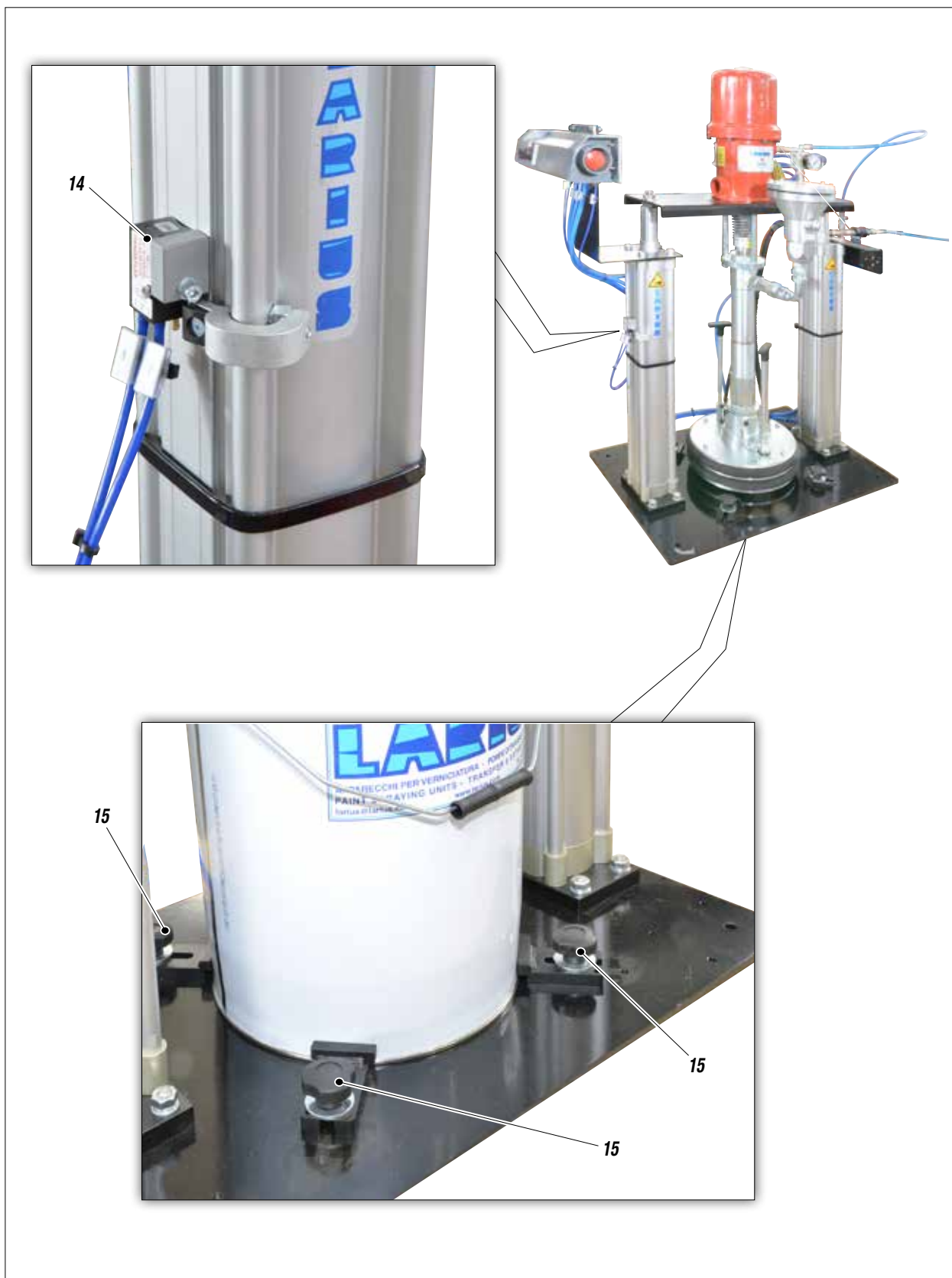


Fig. 3D

Pos.	Description
14	Drum end sensor

Pos.	Description
15	Drum locking fasteners (optional)



Fig. 4D

Pos.	Description
16	Flow regulator
17	Air bleed

Pos.	Description
18	Manual follower plate air inlet valve
19	Air delivery to follower plate

E TRANSPORT AND UNPACKING

- The packed parts should be handled as indicated in the symbols and markings on the outside of the packing.
- Before installing the equipment, ensure that the area to be used is large enough for such purposes, is properly lit and has a clean, smooth floor surface.



The user is responsible for the operations of unloading and handling and should use the maximum care so as not to damage the individual parts or injure anyone.

To perform the unloading operation, use only ualified and trained personnel (truck and crane operators, etc.) and also suitable hoisting equipment for the weight of the installation or its parts. Follow carefully all the safety rules.

The personnel must be equipped with the neces- sary safety clothing.

- The manufacturer will not be responsible for the unloading operations and transport to the workplace of the machine.
- Check the packing is undamaged on receipt of the equipment. Unpack the machine and verify if there has been any damage due to transportation. In case of damage, call immediately the manufacturer and the Shipping Agent. All the notices about possible dama- ge or anomalies must arrive timely within 8 days at least from the date of receipt of the plant through Registered Letter to the Shipping Agent and to the manufacturer.



The disposal of packaging materials is a customer's competence and must be performed in accordance with the regulations in force in the country where the plant is installed and used. It is nevertheless sound practice to recycle packaging materials in an environment-friendly manner as much as possible.

F SAFETY RULES

- THE EMPLOYER SHALL TRAIN ITS EMPLOYEES ABOUT ALL THOSE RISKS STEMMING FROM ACCIDENTS, ABOUT THE USE OF SAFETY DEVICES FOR THEIR OWN SAFETY AND ABOUT THE GENERAL RULES FOR ACCIDENT PREVENTION IN COMPLIANCE WITH INTERNATIONAL REGULATIONS AND WITH THE LAWS OF THE COUNTRY WHERE THE PLANT IS USED.



Read carefully and entirely the following instructions before using the product. Please save these instructions in a safe place.



The unauthorised tampering/replacement of one or more parts composing the machine, the use of accessories, tools, expendable materials other than those recommended by the manufacturer can be a danger of accident.



The manufacturer will be relieved from tort and criminal liability.

- THE BEHAVIOUR OF THE EMPLOYEES SHALL STRICTLY COMPLY WITH THE ACCIDENT PREVENTION AND ALSO ENVIRONMENTAL REGULATIONS IN FORCE IN THE COUNTRY WHERE THE PLANT IS INSTALLED AND USED.
- KEEP YOUR WORK PLACE CLEAN AND TIDY. DISORDER WHERE YOU ARE WORKING CREATES A POTENTIAL RISK OF ACCIDENTS.
- ALWAYS KEEP PROPER BALANCE AVOIDING UNUSUAL STANCE.
- BEFORE USING THE TOOL, ENSURE THERE ARE NOT DAMAGED PARTS AND THE MACHINE CAN WORK PROPERLY.
- ALWAYS FOLLOW THE INSTRUCTIONS ABOUT SAFETY AND THE REGULATIONS IN FORCE.
- KEEP THOSE WHO ARE NOT RESPONSIBLE FOR THE EQUIPMENT OUT OF THE WORK AREA.
- **NEVER** EXCEED THE MAXIMUM WORKING PRESSURE INDICATED.
- ALWAYS DISCONNECT THE SUPPLY AND RELEASE THE PRESSURE IN THE CIRCUIT BEFORE PERFORMING ANY CHECK OR PART REPLACEMENT OF THE EQUIPMENT.
- NEVER MODIFY ANY PART IN THE EQUIPMENT. CHECK REGULARLY THE COMPONENTS OF THE SYSTEM. REPLACE THE PARTS DAMAGED OR WORN.
- TIGHTEN AND CHECK ALL THE FITTINGS FOR CONNECTION BETWEEN PUMP, FLEXIBLE HOSE AND SPRAY GUN BEFORE USING THE EQUIPMENT.
- ALWAYS USE THE FLEXIBLE HOSE SUPPLIED WITH STANDARD KIT. THE USE OF ANY ACCESSORIES OR TOOLING OTHER THAN THOSE RECOMMENDED IN THIS MANUAL, MAY CAUSE DAMAGE OR INJURE THE OPERATOR.
- THE FLUID CONTAINED IN THE FLEXIBLE HOSE CAN BE VERY DANGEROUS. HANDLE THE FLEXIBLE HOSE CAREFULLY. DO NOT PULL THE FLEXIBLE HOSE TO MOVE THE EQUIPMENT. NEVER USE A DAMAGED OR A REPAIRED FLEXIBLE HOSE.



Always check that the product is compatible with the materials composing the equipment (*pump, spray gun, flexible hose and accessories*) with which it can come into contact. Never use paints or solvents containing Halogen Hydrocarbons (*as the Methylene Chloride*). If these products come into contact with aluminium parts can provoke dangerous chemical reactions with risk of corrosion and explosion.



Take proper safety measures for the protection of hearing in case of work near the plant.



Not groped never tamper with the calibration values of the instruments.

G CONDITIONS OF GUARANTEE



The conditions of guarantee do not apply in the following situations:

- improper washing and cleaning of components causing malfunction, wear or damage to the equipment or any of its parts;
- improper use of the equipment;
- use that does not conform with applicable national legislation;
- incorrect or faulty installation;
- modifications, interventions and maintenance that have not been authorised by the manufacturer;
- use of non-original spare parts or parts that do not correspond to the specific model;
- total or partial non-compliance with the instructions provided.

H DANGERS

MOVING PARTS OF EQUIPMENT



All moving parts, such as the group of rising and falling pressure plate may cause damage to the upper extremities.

- do not approach with hands for the moving parts during operation of the equipment.

- during the ascent and descent of the hoist keep hands pressing plate and the rim of the container material.



- Keep hands away from pump during operation material priming piston and compressed air is supplied to the unit whenever.

- Before performing any maintenance or repair, disconnect the compressed air supply and arrange for decompression of the pump and of the hoist to the rest position (see diagram 1B/ phase A).

GROUNDING

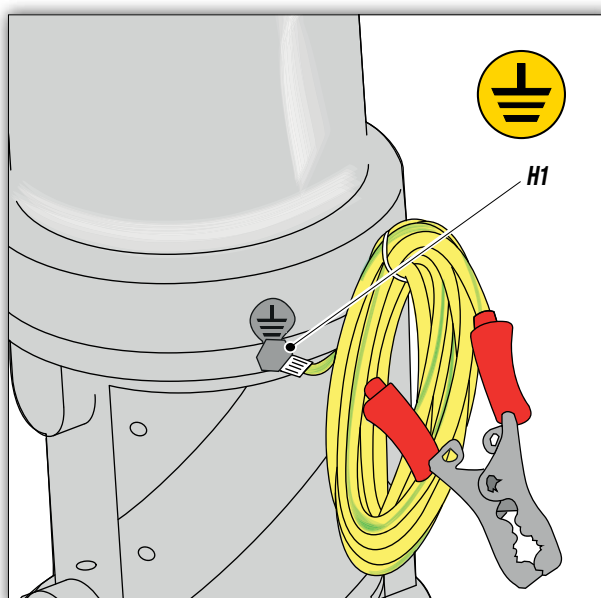


During operation of the pump can create conditions of electrostatic energy.



- before using the pump you must provide for the grounding connection.

- the pump is equipped with a special terminal and its grounding wire (H1).



I CORRECT USE

The mast hoist is suitable for work with kegs of 30 liters.

- The drum (I1) must be correctly positioned between the two columns (I2) and securely attached to the base plate using the clamps (I3).



Fig. 1I



Fig. 2I

- The drum must not be deformed or damaged.

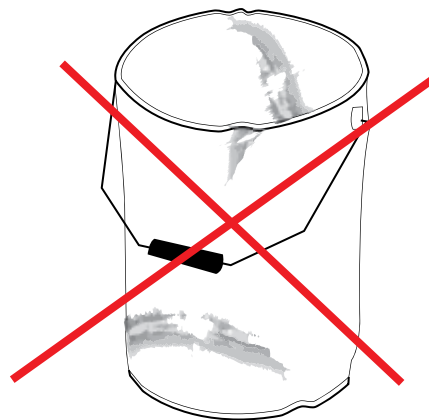


Fig. 3I

- The pumps installed on the hoist are piston and are suitable for pumping highly viscous products (up to 2 million cps).
- Use products that are chemically compatible with the pump parts that are in contact with the product to be pumped.
- Contact the manufacturer before using products other than those provided for in the contract of sale.
- The pressure of the compressed air supply must be between 3 ÷ 6 bar.

NOTE

Any other use of the equipment not provided for in the contract of sale is declared improper.



Make sure there is sufficient space in height when the hoist is in the highest position.

J FIXING WITH SCREW ANCHORS

If you need to fix by using steel anchors for concrete and masonry you must follow the following procedures:

- check the floor leveling and if necessary to shim mounting elements in order to achieve perfect alignment of the components;
- holes must be the same size as those in the base plate. It is possible to fix the base plate whose existing holes can be used as a guide to drill the floor with precision in a single operation;

- the depth of the holes drilled in the concrete of no importance for the expansion of the gusset and does not affect his estate provided that it is made of a puncture with minimum depth sufficient to allow the full roll-out of the plug;
- Insert the expansion bolts by tightening until completely locking.

Recheck your transportation plans are level.

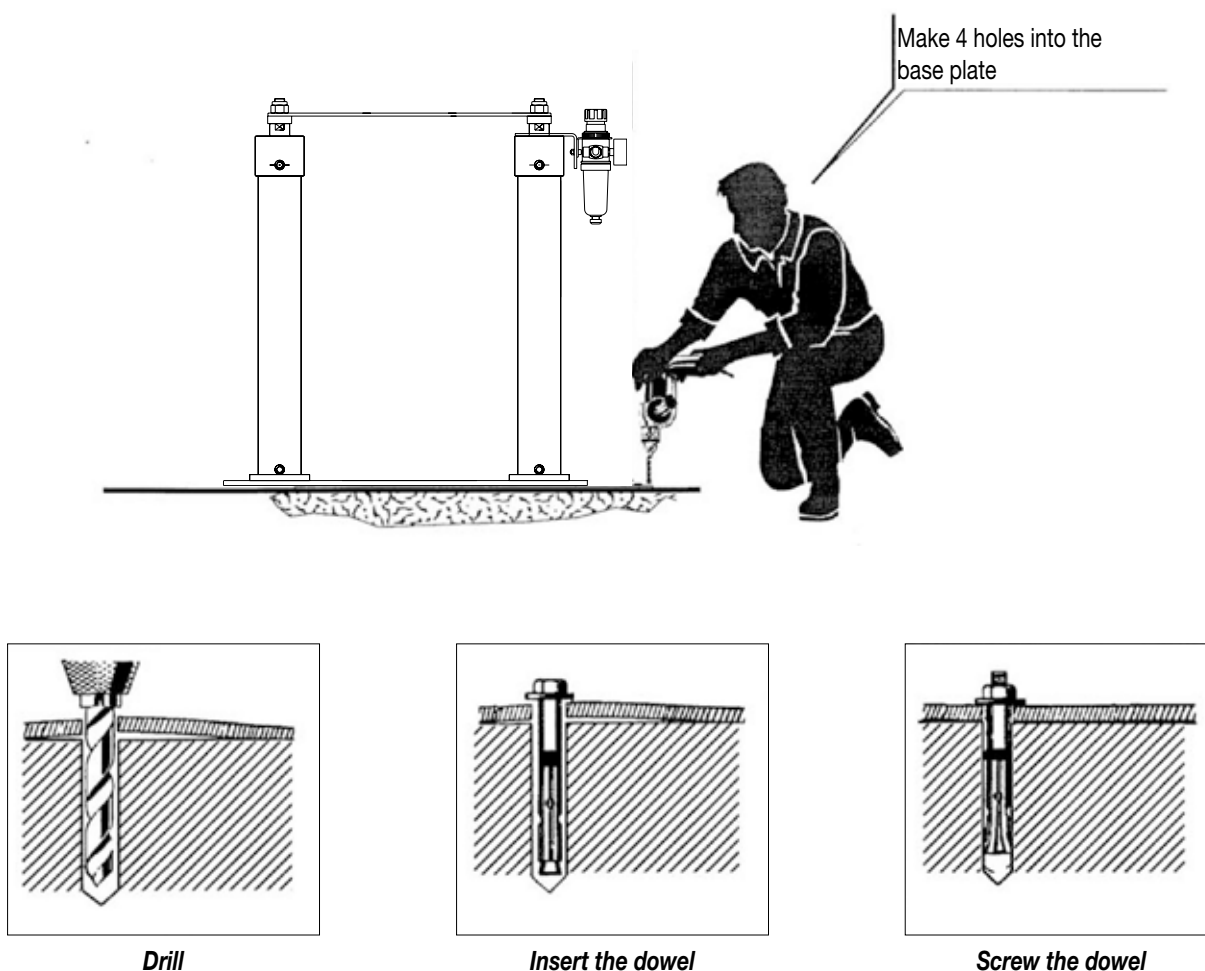


Fig. 1J

K AIR TREATMENT UNIT CONTROL

Periodically check the air supply line to the pump. Make sure that the air is always clean and lubricated.

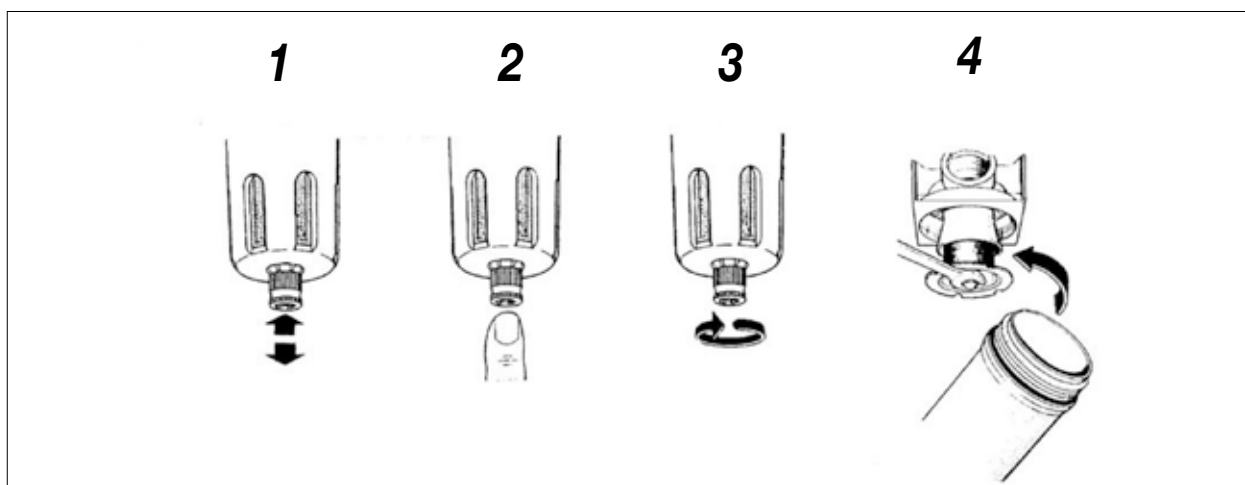


Fig. 1K

- With the button in the center position the faucet is semi-automatic, with collective absence and closing in case of pressure;
- Press the button gets the condensate drain in a pressurised;
- By turning the dial counter-clockwise you get manual closing of the tap (closing both in the presence and in the absence of pressure);
- To clean or replace the insert loosen the screen of the centrifugation unit.

L SAFETY RULES



These instructions apply to the proper use of the hoist. Also, read the instructions contained in the manual information of the different components (pneumatic pump, gun, etc).

- Keep your work area clean and in order
- Keep those who are not accountable outside the workspace.
- Before using the equipment, the operator must be trained and informed about the location of all controls on your equipment.
- Do not exceed the indicated maximum pressure.
- Release the pressure in the circuit before carrying out any type of control or product replacement policy.



While the drive is operating do not close the moving parts, in order to avoid possible injury to your hands and fingers.



Do not spray flammable products or solvents indoors never use the equipment in the presence of explosive gases, always check if the product is compatible with the materials that compose the equipment (pump, gun, hose and accessories) may come into contact with them.

- Do not modify the supplied parts, always look regularly to your system's components. Replace any damaged or worn parts.
- Tighten and check all the connections of connection between pump, hose and gun before operating equipment.
- Do not get too close to the hoist during his movements
- Before any maintenance disconnect the power supply



If the product to be used is toxic, avoid inhalation and contact by using protective gloves, goggles and masks.

M SETTINGS

The operator must arrange a suitable environment before installing it as we show below:

- an area wide enough to allow the loading and unloading drum and routine maintenance.
- make sure there is sufficient space in height to allow lifting and easy access to the air control groups.
- For the air supply, use a hose with an internal diameter of not less than 10 mm.
- make sure that the sensors are closed. (Turn the adjusting knob clockwise to close it).
- make sure the air pressure valve to the pressure plate is closed.
- make sure the air hose to the air pump is attached to the piston and the pump.
- make sure the air hose to the pressure plate is attached to the piston and the clamping plate.



Indicates the danger of unexpected movement transportation on inclined surfaces (for version with swivel-wheels-kit).

N PROCEDURE FOR INSERTING THE FOLLOWER PLATE IN THE DRUM

NOTE

Follow instructions with care. These operations must be carried out with the pump at a standstill by competent, trained personnel: shearing hazard.



SHEARING HAZARD

Carefully follow the directions below to insert the follower plate in the drum:

- Open, loosening the corresponding air bleed rod (N1)



Fig. 1N

NOTE

The rod should not be completely unscrewed. If so, re-tighten at least 2 or 3 turns.

- Raise the hoist and position the drum.



Fig. 2N

- During this operation, keep drum closing clamp (N2) loose so that they can auto-centre on the follower plate.



Fig. 3N

- Regulate cylinder pressure to at least 1 bar on the corresponding regulator (N3).



Fig. 4N

- Grease the follower plate gasket.



Fig. 5N

- Set the bi-manual control lever to "DOWN".

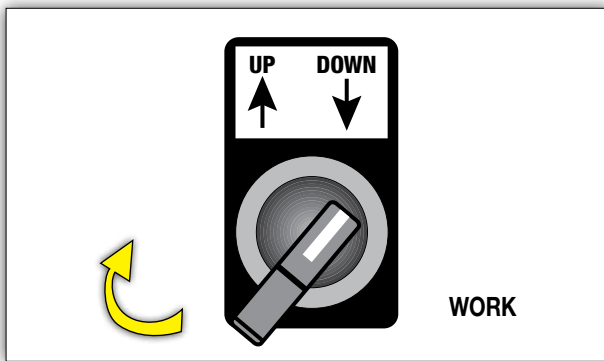


Fig. 6N

- Lower the plate by simultaneously pressing the two-hand control buttons until the plate enters into the first part of the drum (1-2 cm. max), and stop the follower plate descent. During this phase, try to centre the drum manually, making sure to centre the follower plate inside the drum.

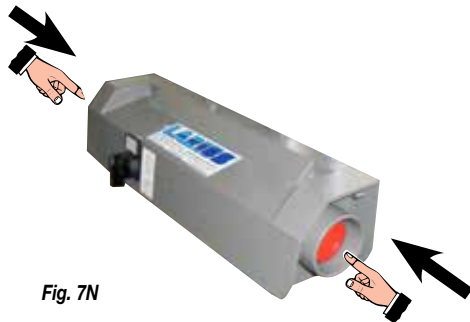


Fig. 7N

 **NOTE**

Never under any circumstances place hands between the plate and the edge of the drum.



Fig. 8N

- Close the drum fastener (N4).



Fig. 9N

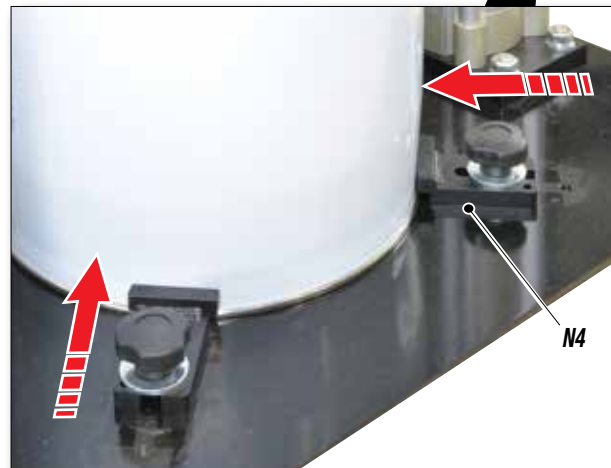


Fig. 10N

 **NOTE**

If the follower plate inclines when inserting the drum, move the two-hand control switch to "UP" to bring up the pump and then repeat the operation.

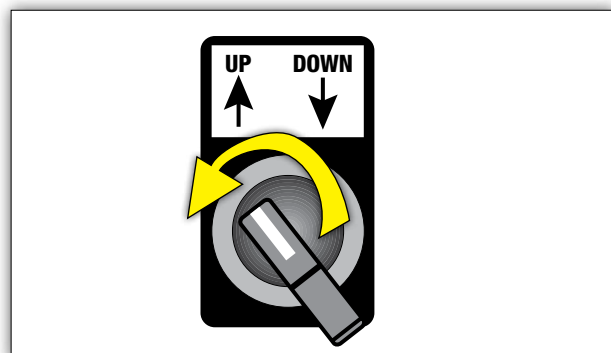


Fig. 11N



The follower plate may suddenly come out when removing it from the drum:
BE CAREFUL - KEEP HANDS AND HEAD AWAY FROM MOVING MACHINE PARTS.



KEEP IN MIND THAT THE EXTRUSION RAM IS ALWAYS HAND PUSH. ONCE THE GASKET HAS ENTERED INTO THE DRUM, THE FOLLOWER PLATE-PUMP LOCK MAY MOVE SUDDENLY TO REACH THE SURFACE OF THE PRODUCT. BE CAREFUL OF HANDS AND KEEP HEAD AWAY FROM MOVING MACHINE PARTS.

- At this point, if the sensor is positioned correctly on the cylinder, the extrusion ram will autonomously push without any two-hand control buttons being pressed. Material should come out from the bleed hole (N5).



Fig. 12N

- It may be necessary to act on the hoist thrust air regulator to increase the pressure of the hoist itself. When the product comes out, close the bleed rod (N6).



Fig. 13N

0 PROCEDURE FOR REMOVING THE FOLLOWER PLATE FROM THE DRUM

Proceed as described below to remove the pump and follower plate from the drum:

- Make sure that the drum air inlet regulator (01) is set to 0 bar.

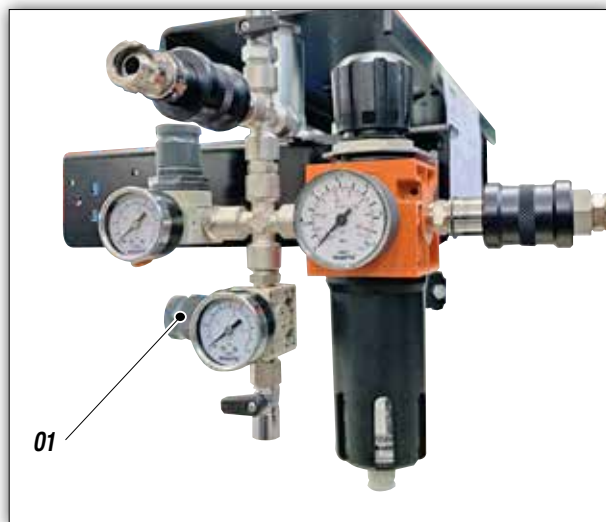


Fig. 10

- Move the bi-manual control selector (02) to neutral position (03).

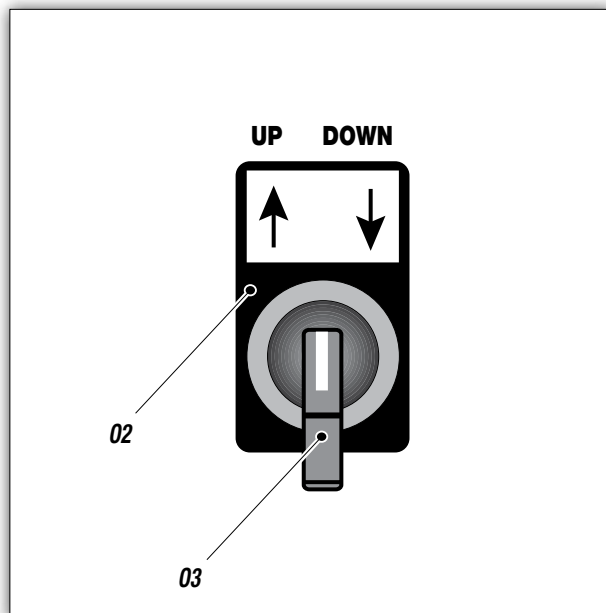


Fig. 20

- Open the air inlet valve of the drum (04).



Fig. 30

- Gradually increase air pressure on the regulator (01).
- Move the bi-manual control selector to "UP".

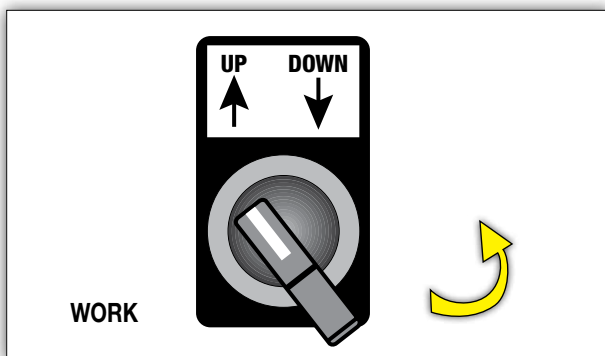


Fig. 40

- Push the two buttons (06) of the bi-manual control.
- The hoist starts to rise.

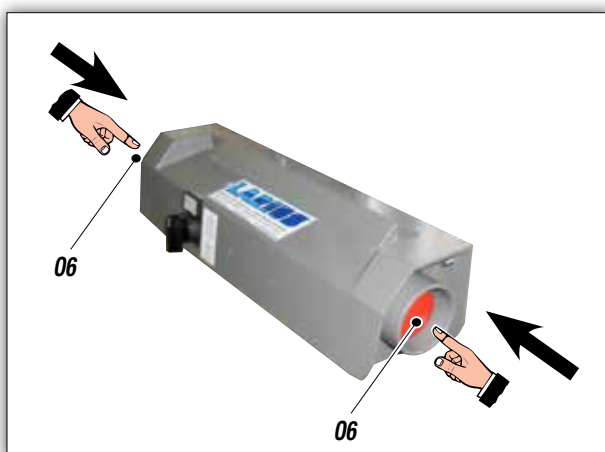


Fig. 50

**NOTE**

The pump may have some sudden movement during exit from the drum. Keep at a safe distance from moving parts.

P SENSOR POSITIONING

The hoist is equipped with a magnetic sensor (P1), positioned on one of the two cylinders (P2). When the cylinder passes over the sensor, the descent thrust becomes automatic, excluding the two-hand control.



Fig. 1P

For safety reasons, the sensor has been positioned so that it runs only after the plate has completely entered inside the drum. It is advisable to mark (also using a marker) the sensor position on the cylinder.

In case you want to move the sensor to another quota, act as described below:

- Move the selector to the "UP" position and bring the hoist in the maximum cylinder extension position. The pump (P3) is therefore at the maximum height possible.

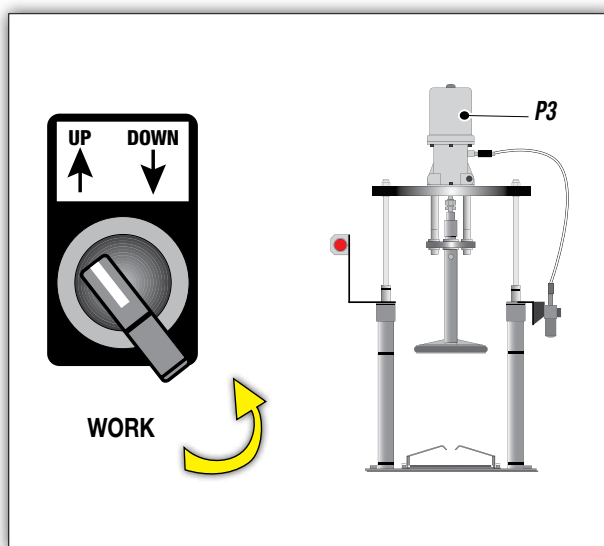
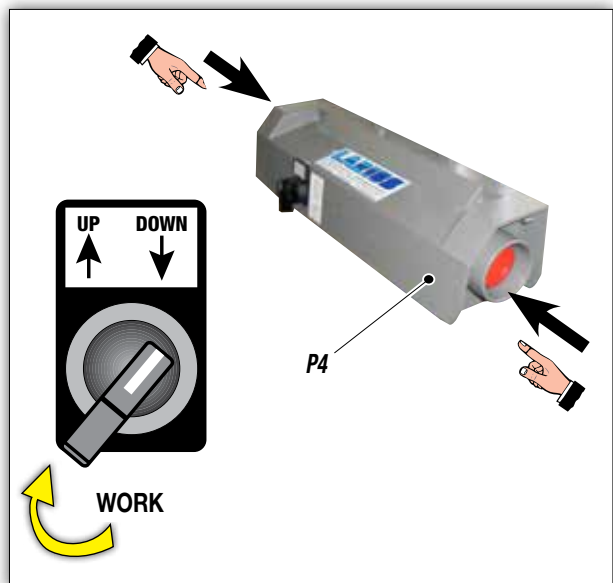


Fig. 2P

- Disconnect the sensor from the pneumatic cylinder by unscrewing the locking screw. The hoist movement will be possible manually using the bi-manual control.

- Set the selector to “DOWN”. Using the two-hand control (P4), position the pump at the height at which you want the sensor to intervene and leave the selector on the “DOWN” position.


Fig. 3P

- Disconnect the air hose with the number 2 (P5) of the sensor entering into bi-manual control input.

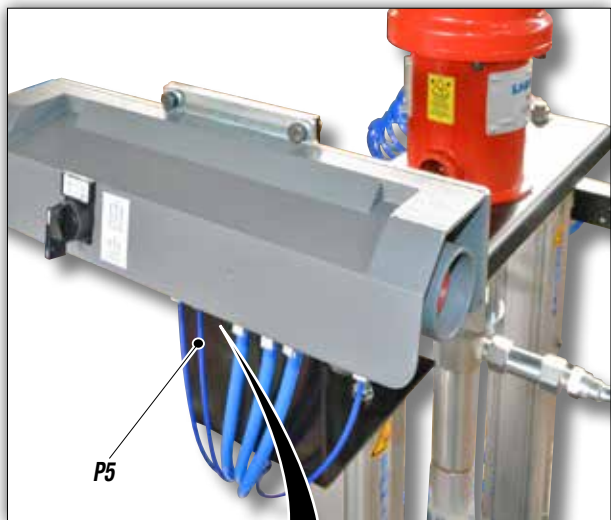
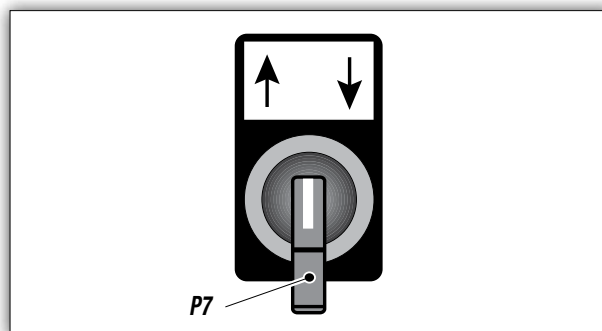

Fig. 4P

Fig. 5P

- Now, sliding the sensor (P6) on the cylinder in correspondence with the magnetic component that is located within, this will be activated and compressed air will come out from the air hose disconnected in the previous point. This location corresponds with the previously set desired position.


Fig. 6P

- Lock the sensor at this point using the appropriate locking screw.
- Move the bi-manual control to neutral position (P7).


Fig. 6P

- Re-attach the previously removed air hose with the number 2 (P5) on the bi-manual control input.



For safety reasons, positioning the sensor so that automatic movement takes place under conditions in which it is possible to run into shearing is strictly prohibited. In this specific case, position the sensor so that automatic movement occurs with the follower plate already inserted in the drum.

NOTE

All operations described must be carried out with the pump at a standstill.

NOTE

See the corresponding manual for pump commissioning operations.

Q ORDINARY MAINTENANCE

- Periodically check the air supply that is always clean and lubricated.
- Periodically check the follower plate gasket.
- Follow the pump maintenance instructions from the specific manual.



Always turn off the air supply and release pressure in the system before any maintenance or inspection of the pump.

R PROBLEMS AND SOLUTIONS

Problem	Cause	Solution
The ram does not rise	The feed air pressure is too low;	Increase air pressure;
	The control lever is not in the high position;	Turn the lifting control lever upwards;
	The shovel plate is blocked on the drum;	Gradually open the bleeder delivery valve to the shovel plate so as to facilitate coming out of the drum;
Leakage of material from the edges of the drum	Shovel plate gasket worn;	Replace the gasket;
	The feed air pressure of the pneumatic cylinder is too high.	Reduce air pressure.



Always close the compressed air supply and release the pressure in the plant before performing any check or replacement of parts of the pump.

S SPARE PARTS COLUMNS TOP

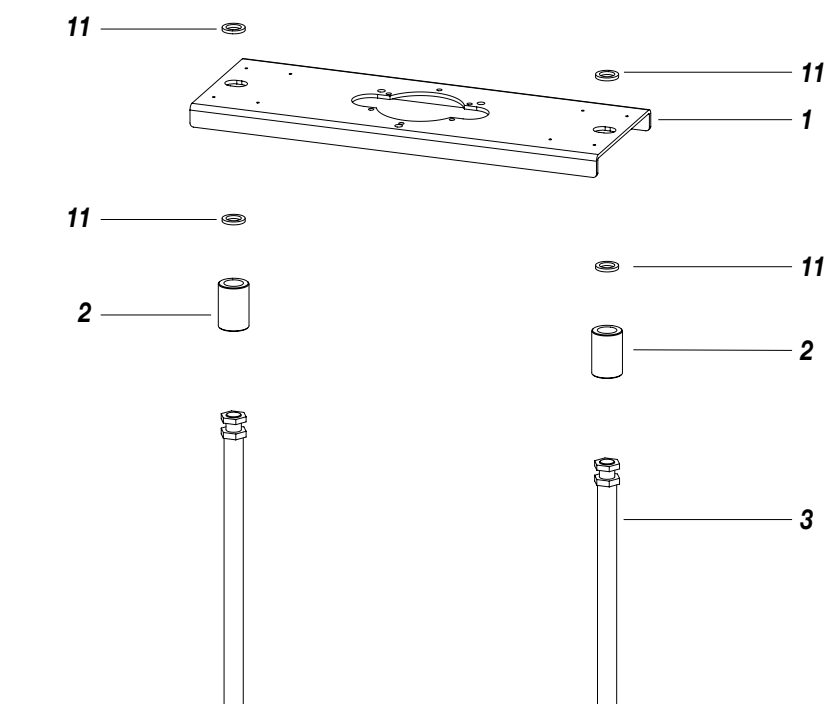


Fig. 1S

Pos.	Code	Description
1	510101	Pump mounting bracket
2	510096	Bushing

Pos.	Code	Description
3	510412	Cylinder + base + screws
11	28738	Washer D20

T SPARE PARTS BASE

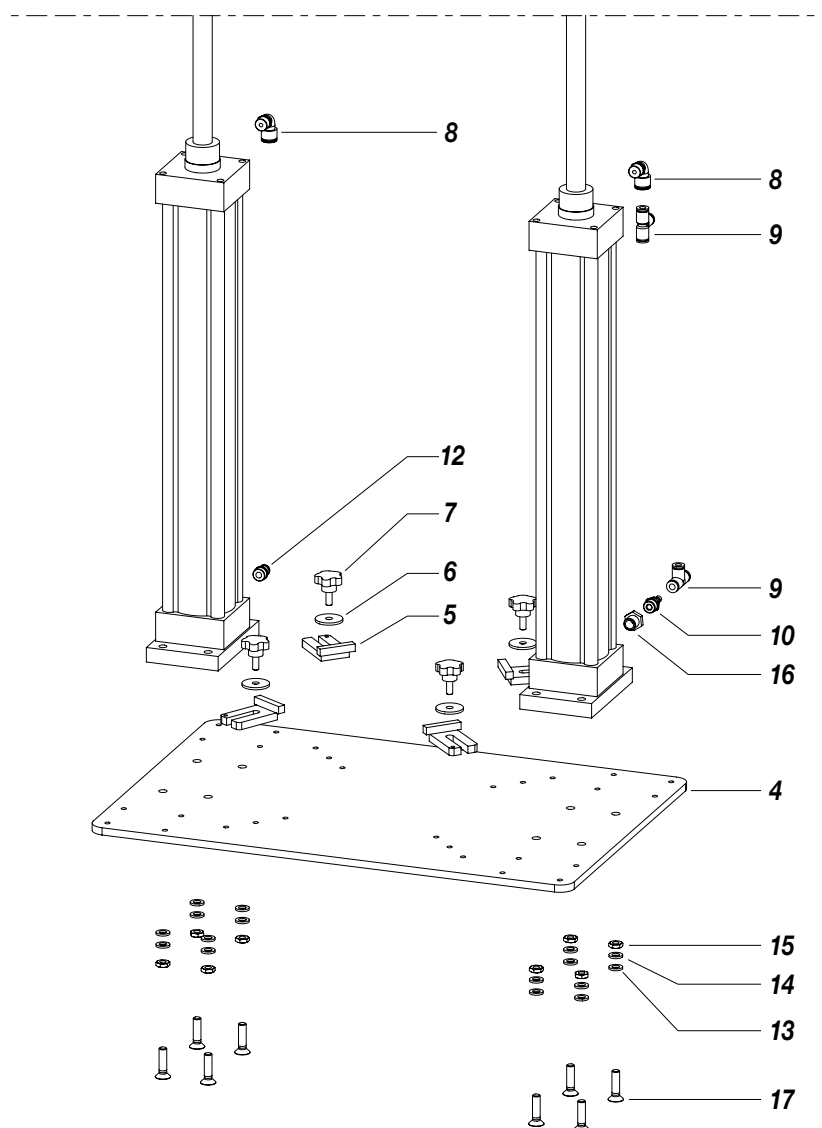


Fig. 1T

Pos.	Code	Description
4	510091	Base plate hoist
5	510036	Clamp
6	95153	Washer D8
7	510037	Lobe handwheel M8
8	91410	Elbow 3/8 hose D10
9	510049	T-piece with quick coupler hose D10
10	5197/1	Attack 3/8 pipe D10

Pos.	Code	Description
12	5390	3/8 hose quick coupler D10
13	33005	Schnor washer D10
14	81033	Flat washer D10
15	95158	Nut M10
16	5258	3/8-1/4 reduction
17	510003	Screw M10x40 TSP

U SPARE PARTS AIR UNIT

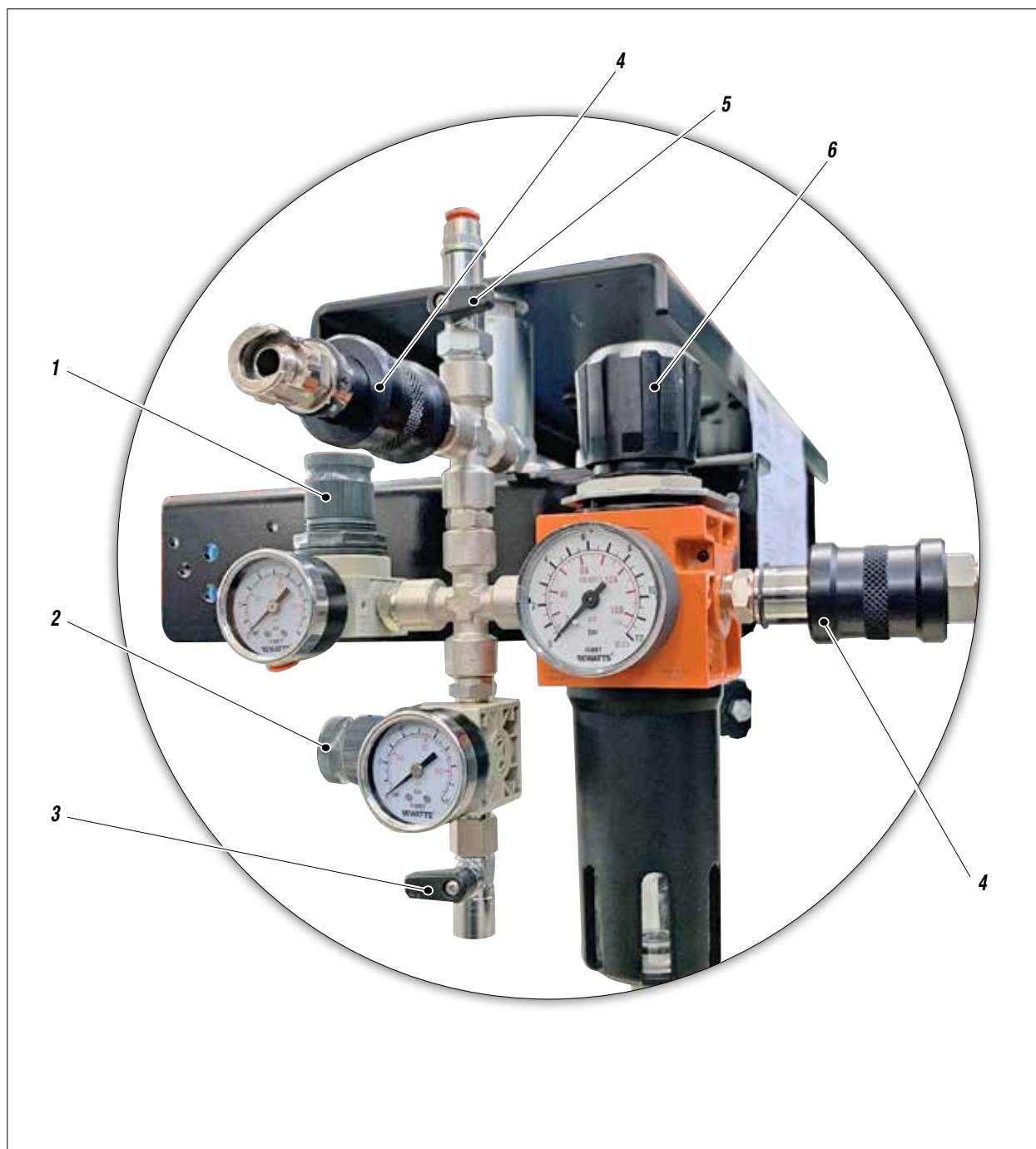


Fig. 1U

Pos.	Code	Description
1	3344	Lifting cylinder pressure regulator
2	3344	Follower plate air pressure regulator
3		Manual follower plate air inlet valve

Pos.	Code	Description
4	22057	Slide valve 3/3
5		ON/OFF Flow regulator
6	91107	Pump pressure regulator

V SPARE PARTS BI-MANUAL CONTROL



Fig. 1V

Pos.	Code	Description
1	5100011	Bi-manual control

Z PNEUMATIC DIAGRAM

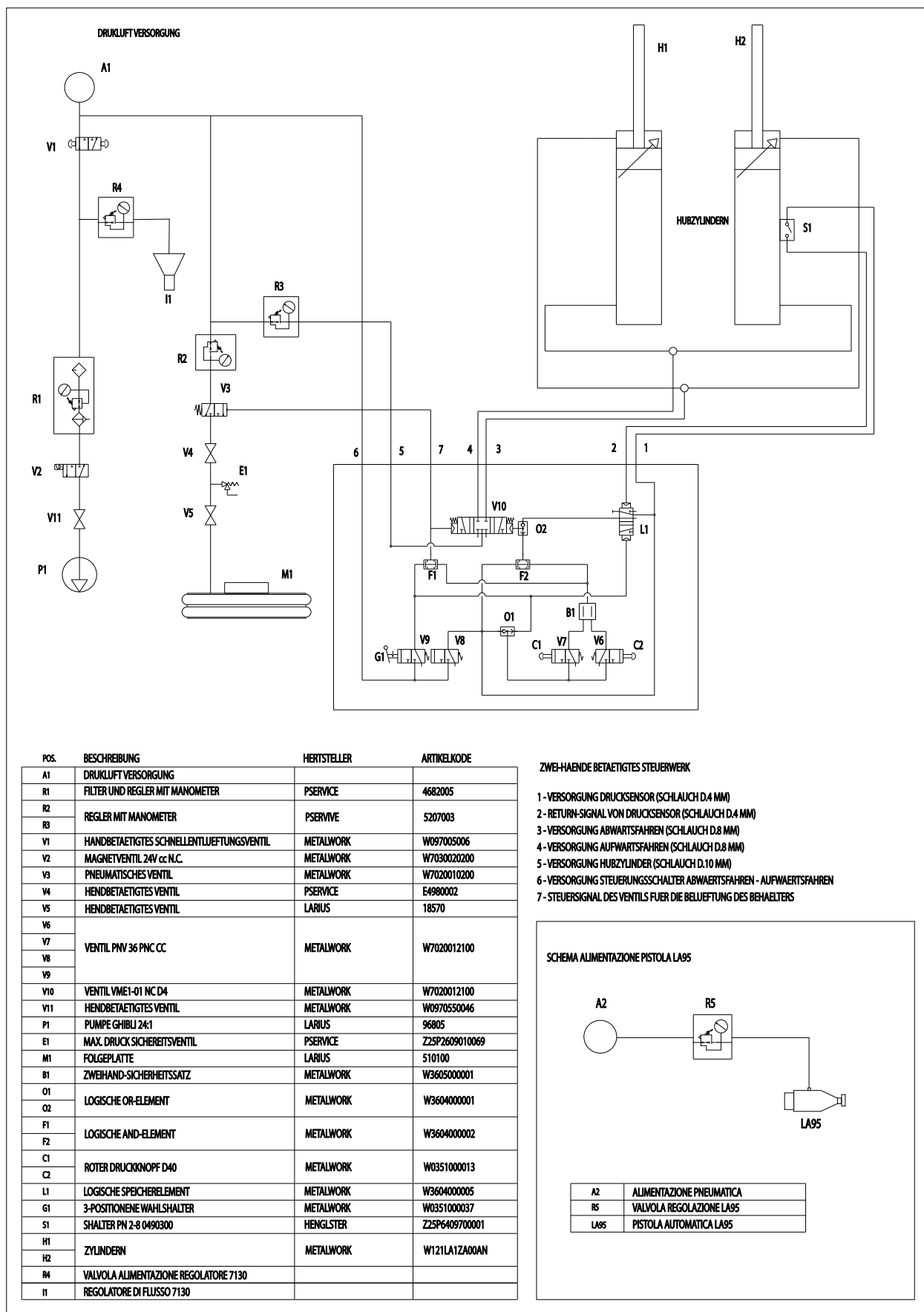


Fig. 12

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