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Manuale Cod. 150140

INSTRUCTION MANUALL

SAMOA®

LEADING THROUGH INNOVATION

EN

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PNEUMATIC HOIST

twin mast for cylindrical 200lt drums

two-hand control

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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 200 litres drums two-hand control

INDEX

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.

- 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.

- It indicates an accident risk or serious damage to equipment if this warning is not followed.

FIRE AND EXPLOSION HAZARD
- Solvent and paint fumes in work area can ignite or explode.
- **To help prevent fire and explosion:**
  - 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.

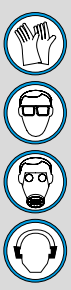
- It indicates wound and finger squashing risk due to movable parts in the equipment.
- Tenersi lontano dalle parti in movimento.
- Do not use the equipment without the proper protection.
- Before any inspection or maintenance of the equipment, carry out the decompression procedure explained in this manual, and prevent any risk of the equipment starting unexpectedly.

- Report any risk of chemical reaction or explosion if this warning has not been given.
- (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.

- It indicates important recommendations about disposal and recycling process of products in accordance with the environmental regulations.

- 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:**
  - (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.

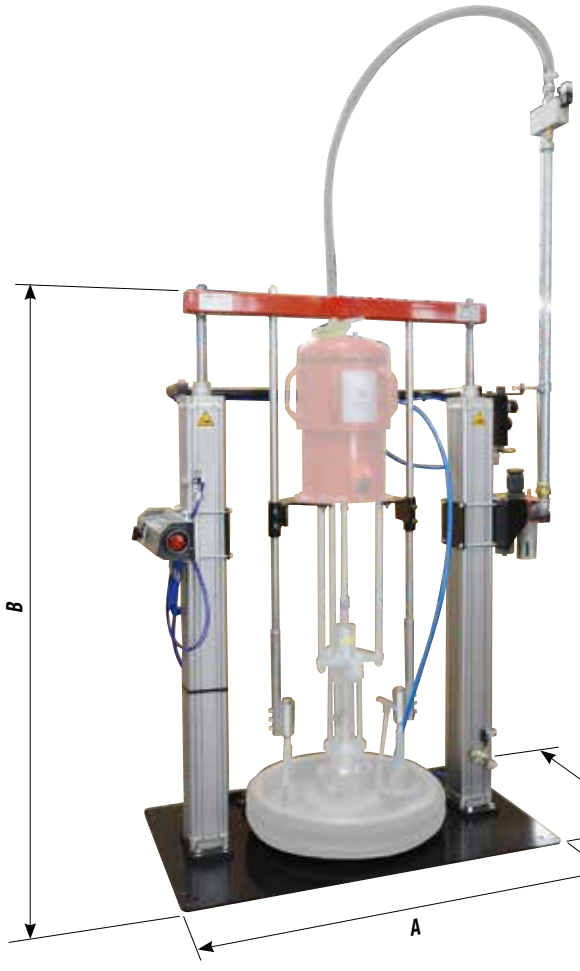
If high pressure fluid pierces your skin, the injury might look like "just a cut", but it is a serious wound!
Get immediate medical attention.



- 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 TECHNICAL DATA

PNEUMATIC HOIST 200	
Max air pressure	7 Bar
Air inlet diameter	1"
Weight	200 Kg
Flat disc pressing	Single or double gasket
Ground fixing	N° 4 expansion bolts
Drum type	Cylindrical - 200 litres
Drum inner diameter (D)	572mm
Maximum drum height (E)	990mm
Length (A)	1080 mm - max 1260 mm
Height (B)	1570 mm (closed)
	2670 mm (open)
	3000 mm (with hose)
Width (C)	640 mm
Pump type	NOVA 55:1
	OMEGA 28:1 - 40:1
	SIRIO 60:1
	GHIBLI 26:1
	VEGA 45:1



Use EXCLUSIVELY with standard cylindrical 200lt drums. DO NOT USE with other drums.

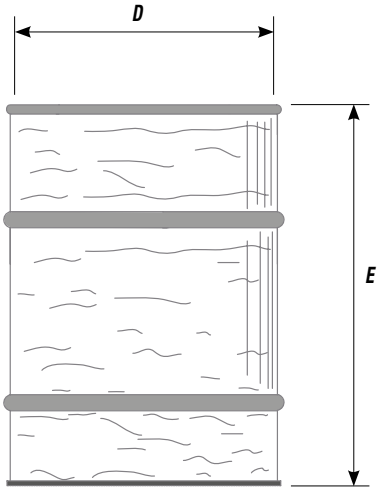


Fig. 1

C 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 qualified 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 necessary 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 damage 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.

D 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.**

E SAFETY RULES

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 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.
- 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.
- (IF PROVIDED) **NEVER** POINT THE SPRAY GUN AT YOURSELVES OR AT OTHER PEOPLE. THE CONTACT WITH THE CASTING CAN CAUSE SERIOUS INJURIES.
- IN CASE OF INJURIES CAUSED BY THE GUN CASTING, SEEK IMMEDIATE MEDICAL ADVICE SPECIFYING THE TYPE OF THE PRODUCT INJECTED. **NEVER** UNDERVALUE A WOUND CAUSED BY THE INJECTION OF A FLUID.
- 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.

- (IF PROVIDED) 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.

The high speed of travel of the product in the hose can create static electricity through discharges and sparks. It is suggested to earth the equipment.
The pump is earthed through the earth cable of the supply.
The gun is earthed through the high pressure flexible hose.
All the conductors near the work area must be earthed.

Never spray over flammable products or solvents in closed places.
Never use the tooling in presence of potentially explosive gas.
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.

Avoid approaching too much to the pump piston rod when the pump is working or under pressure. A sudden movement of the piston rod can cause wounds or finger squashing.

If the product to be used is toxic, avoid inhalation and contact by using protection gloves, goggles and proper face shields.

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

THESE INSTRUCTIONS REFER TO THE CORRECT USE OF THE PNEUMATIC HOIST.

IN ADDITION, READ CAREFULLY THE INSTRUCTIONS CONTAINED IN THE RELATED MANUALS THE DIFFERENT COMPONENTS (*PNEUMATIC PUMP, DELIVERY GUN, ETC.*) WHICH CAN BE USED WITH THE PNEUMATIC HOIST.

- 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.
- DO NOT MODIFY THE SUPPLIED PARTS, ALWAYS A LOOK REGULARLY TO YOUR SYSTEM'S COMPONENTS. REPLACE ANY DAMAGED OR WORN PARTS.
- TIGHTEN AND CHECK ALL THE RACCONDI OF CONNECTION BETWEEN PUMP, HOSE AND GUN BEFORE OPERATING EQUIPMENT.
- DO NOT GET TOO CLOSE TO THE HOIST DURING HIS MOVEMENTS.

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

Do not dispense 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.

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

F REFERENCE STANDARDS

The reference documentation for the design and manufacture of the equipment is as follows:

- **Directive 2006/42/EC** on the approximation of the laws of the Member States relating to machines.
- **EN ISO 12100-1/-2** - Safety of machinery - General design principles - Risk assessment and risk reduction.

G 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 containermaterial.**
- **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* 1 *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 (1).**

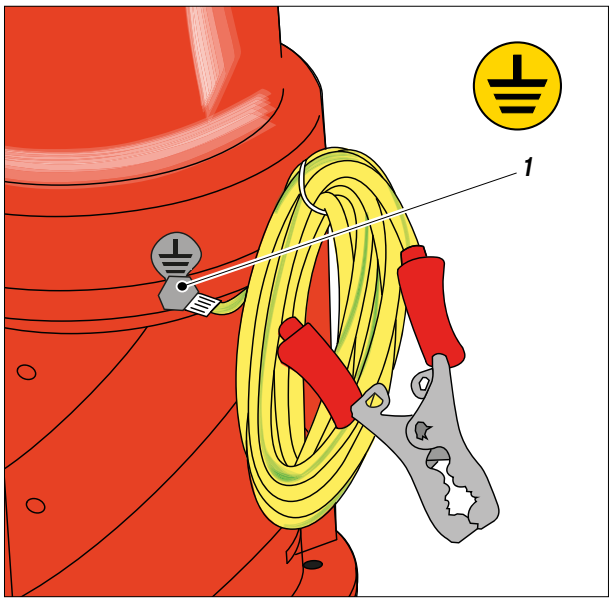


Fig. 1

H USE CORRECT

The mast hoist is suitable for work with metal drums of 200 liters.

- The drum (**1**) must be correctly positioned between the two columns (**2**) and securely attached to the base plate using the clamps (**3**).

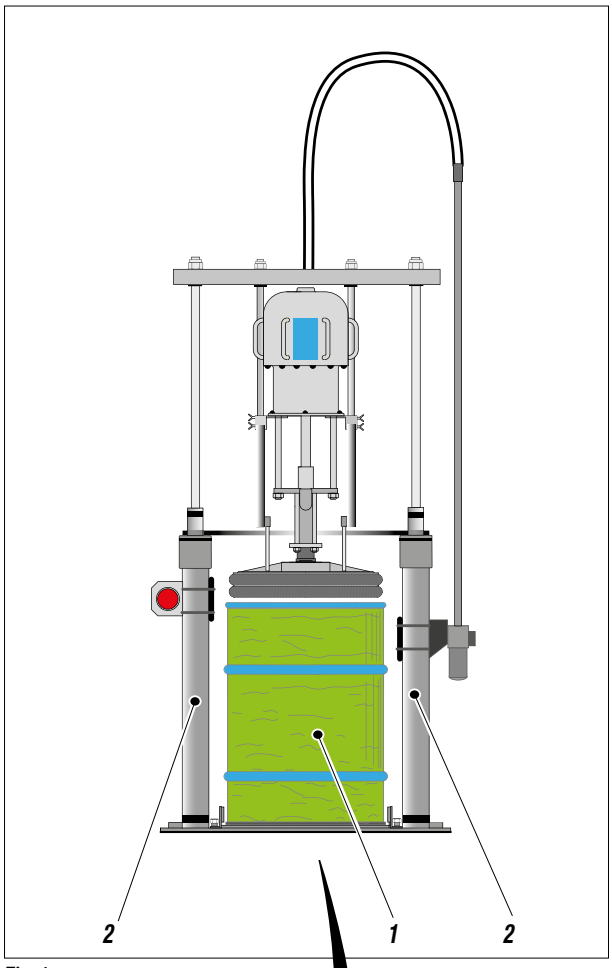


Fig. 1

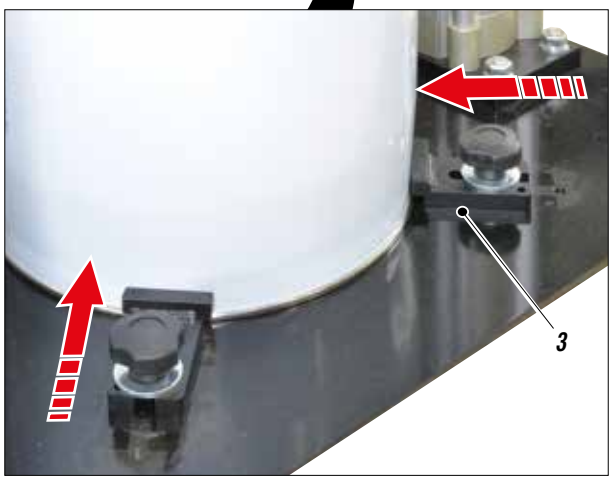


Fig. 2

- The drum must not be deformed or damaged.

Fig. 3

- 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.

STOP

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

I INSTALLATION

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.

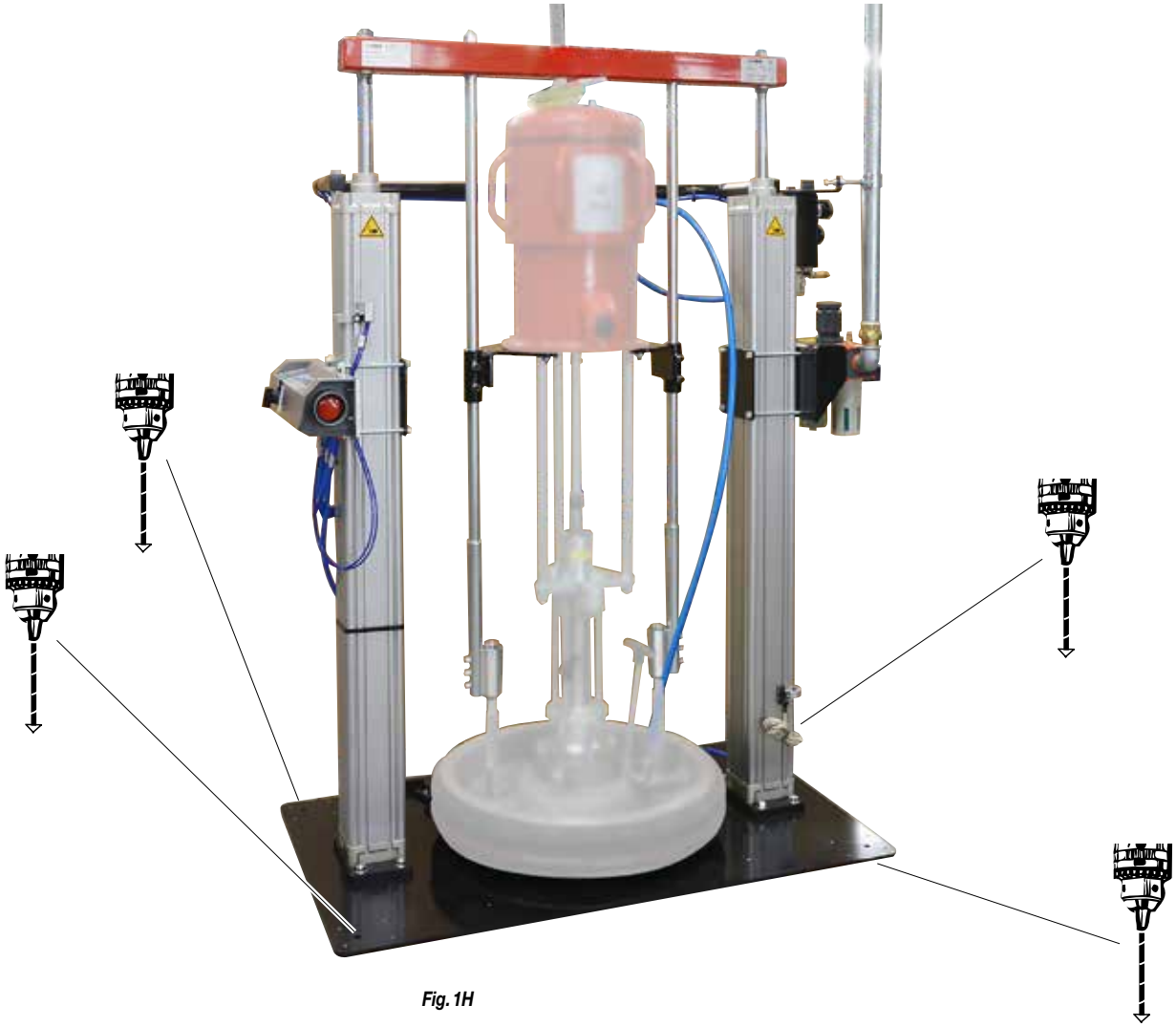
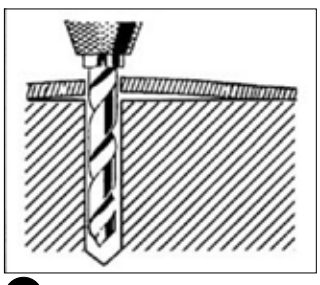
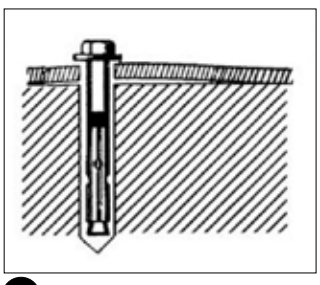


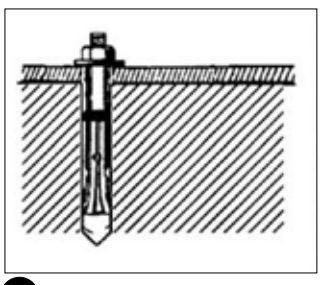
Fig. 1H



1 *Drill*



2 *Insert the dowel*



3 *Screw the dowel*

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 air regulators (**A**) are closed. (Turn the adjusting knob clockwise to close it).

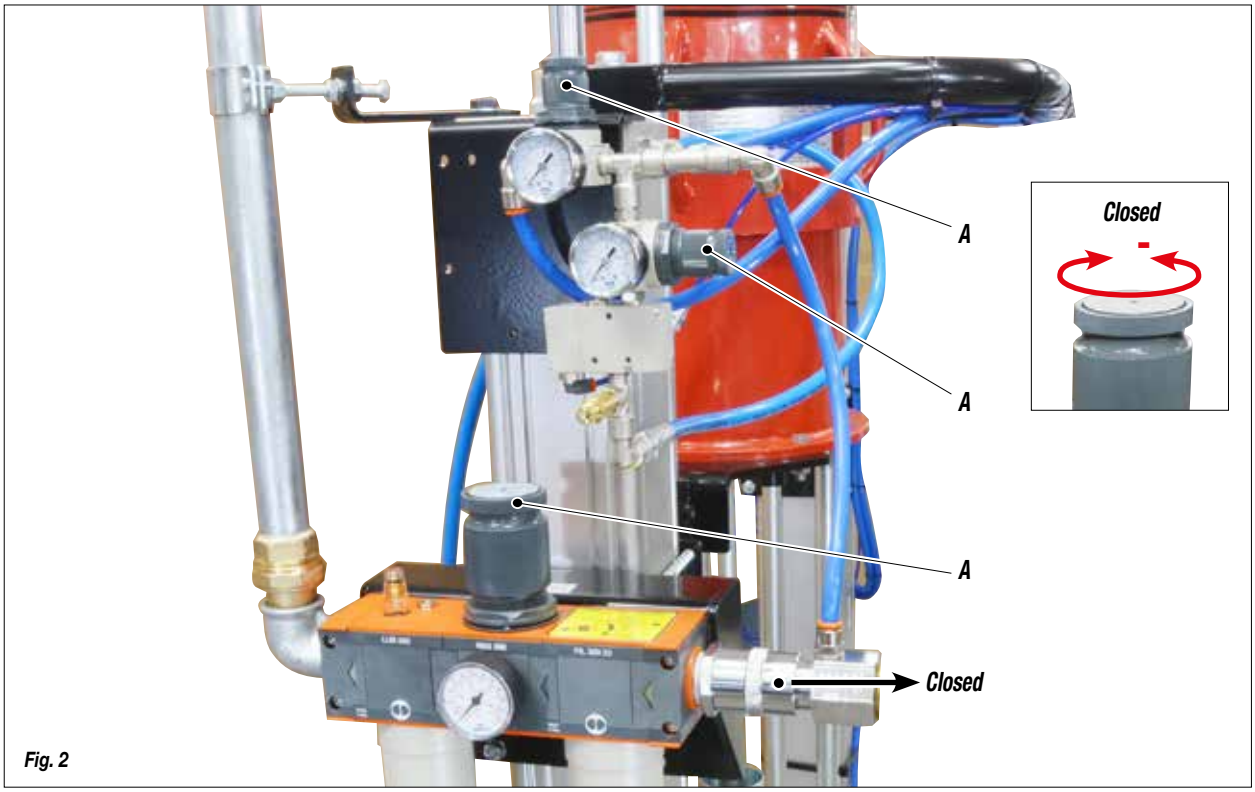


Fig. 2

Fig. 3

- Make sure the air pressure valve (**1**) to the pressure plate is closed.

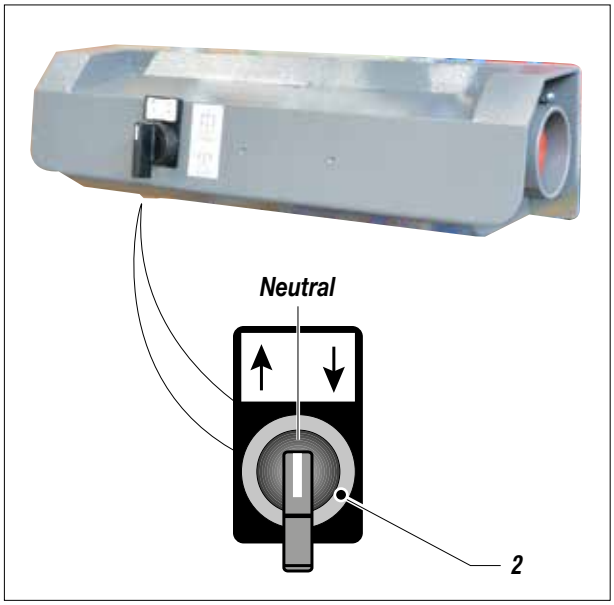


Fig. 4

- Make sure the air hose to the air pump is attached to the piston and the pump.
- Make sure that the selector (**2**) is in the intermediate position (**Neutral**).

J PNEUMATIC CONNECTION

Connect the hoist and pump to the pneumatic air supply as shown in the Figure.
Make sure that the air is always clean and lubricated.

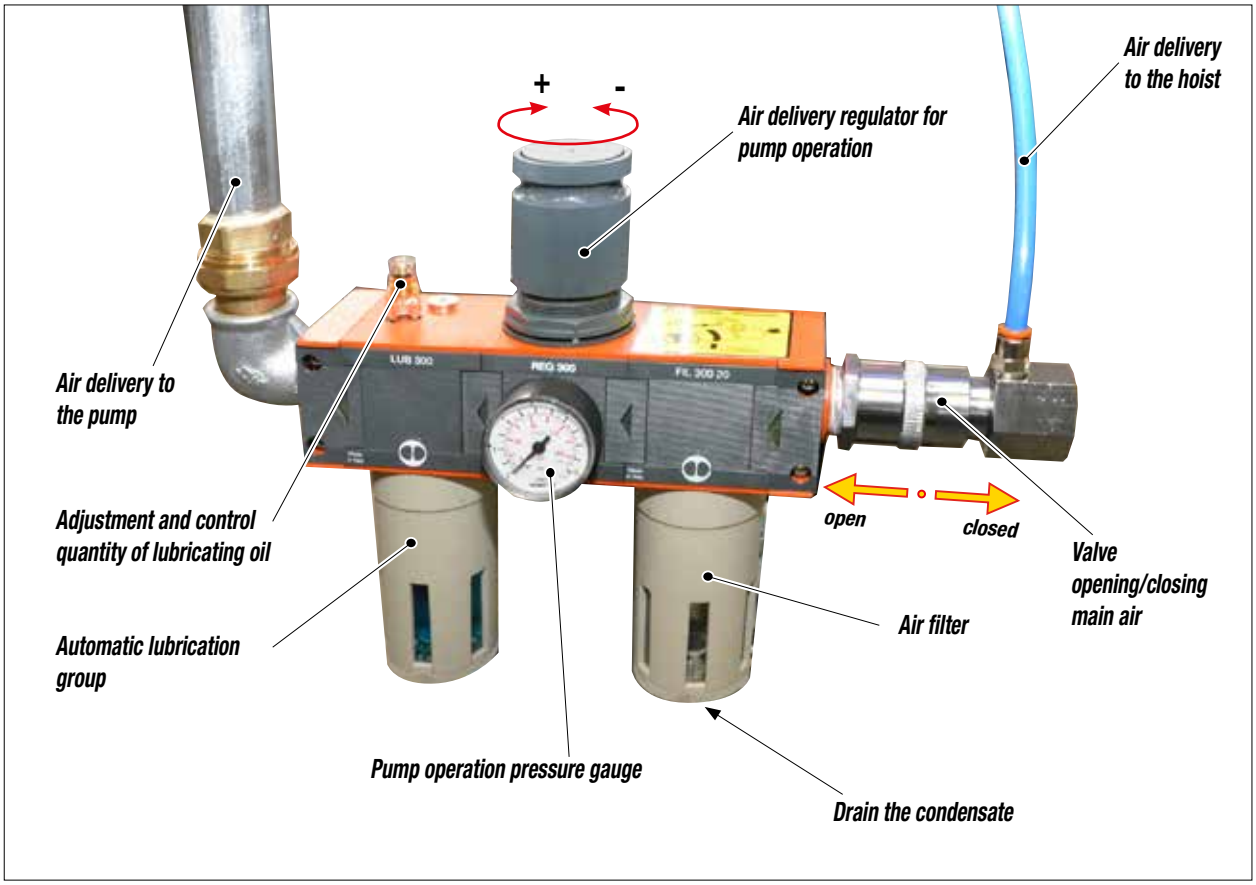


Fig. 1

K PRINCIPLE OF OPERATION

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

The use of hoist allows you to drive the pump suction unit during aspiration produced directly within 200 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.

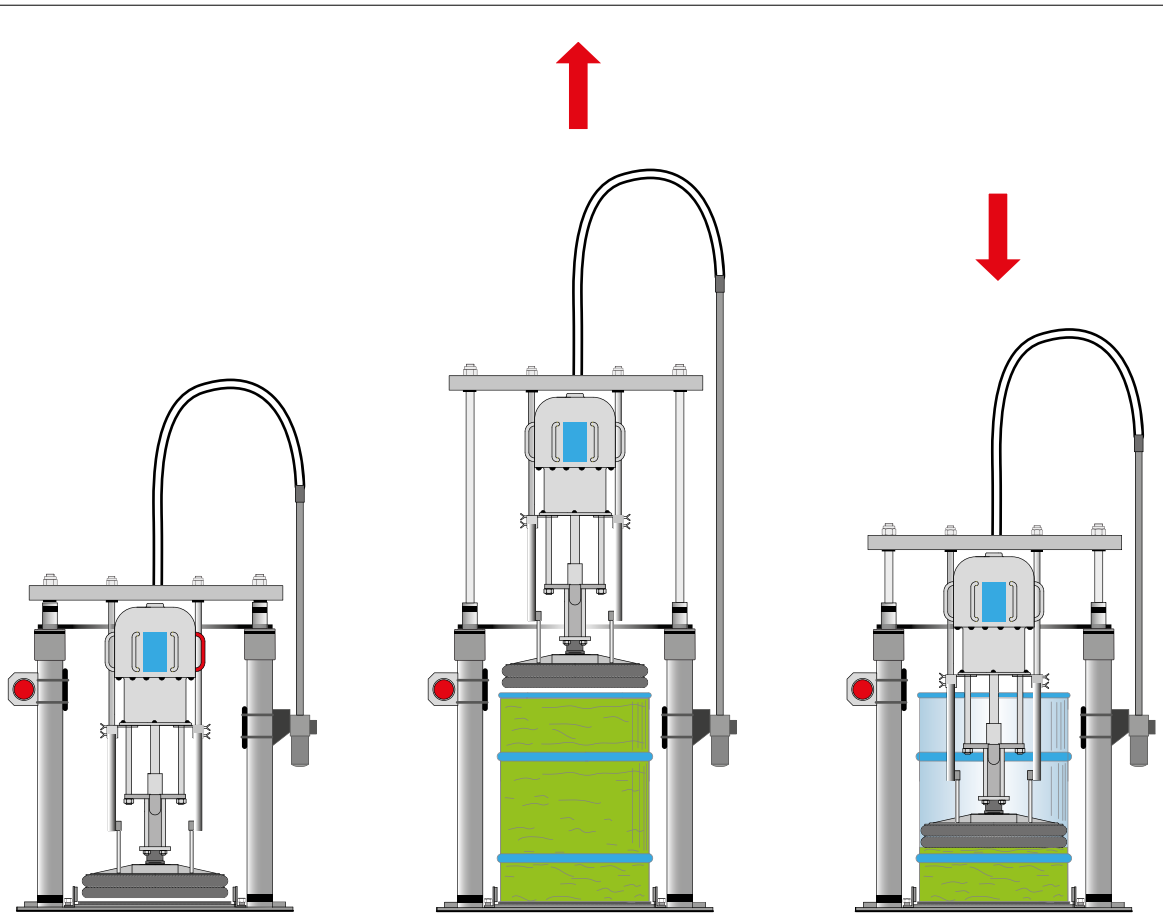
Suction pump at the base of the unit is fitted with a pressure plate that is used to compress the material thus ensuring a steady stream during use.

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.

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



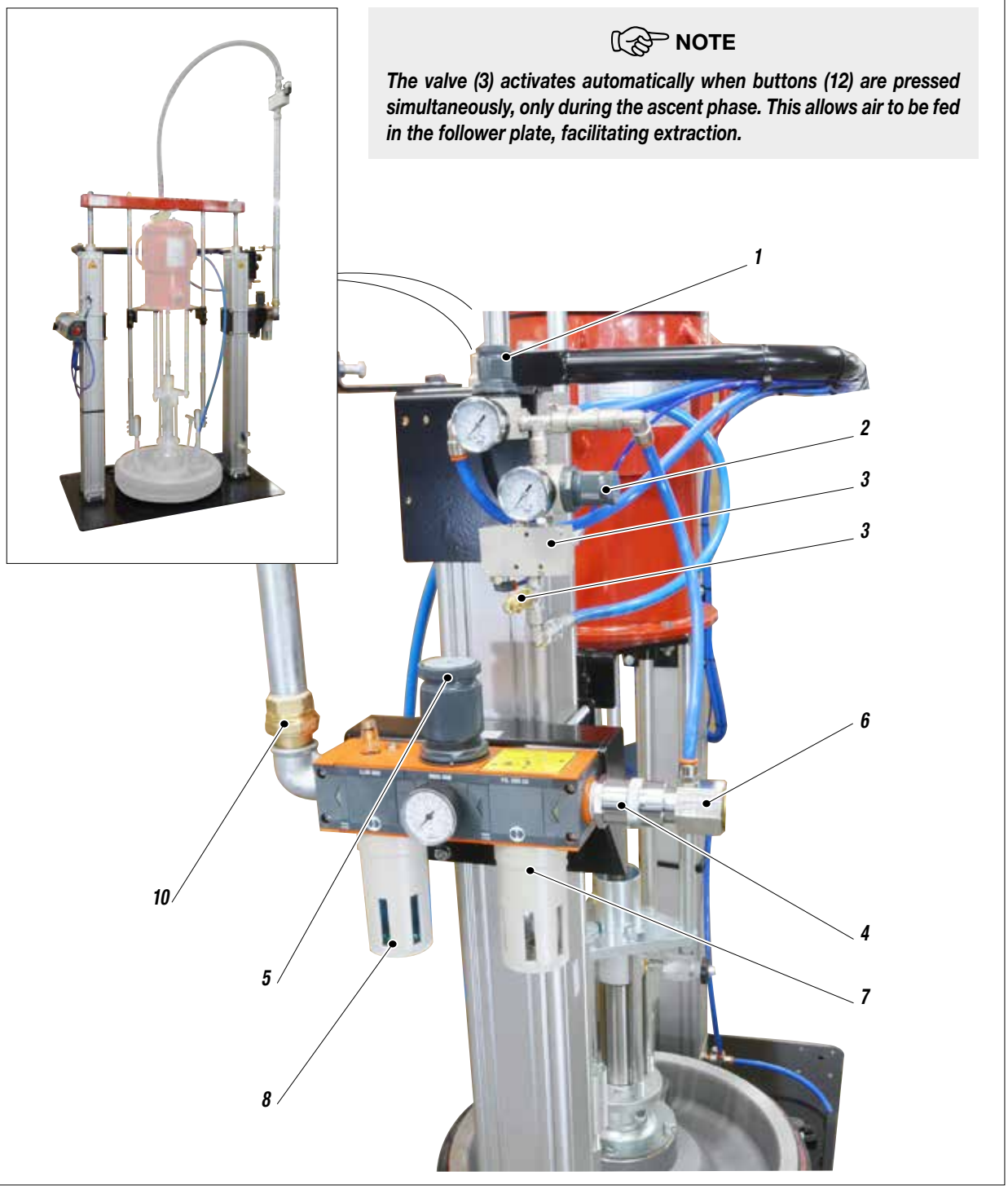
PHASE A
The rest position with hoist lowered.

PHASE B
Hoist lifting, positioning the hoist and centering plate trees blowing inside the drum.

PHASE C
Lowering of the hoist with introduction of the product level pressing plate inside the drum.

Fig. 1

L DESCRIPTION OF THE EQUIPMENT



NOTE

The valve (3) activates automatically when buttons (12) are pressed simultaneously, only during the ascent phase. This allows air to be fed in the follower plate, facilitating extraction.

Fig. 1

Pos.	Description
1	Lifting cylinder pressure regulator
2	Follower plate air pressure regulator
3	Automatic follower plate air inlet valve
4	Rapid discharge valve
5	Pump pressure regulator

Pos.	Description
6	Main air supply
7	Air filter
8	Air lubricator
9	Safety valve
10	Joint fitting

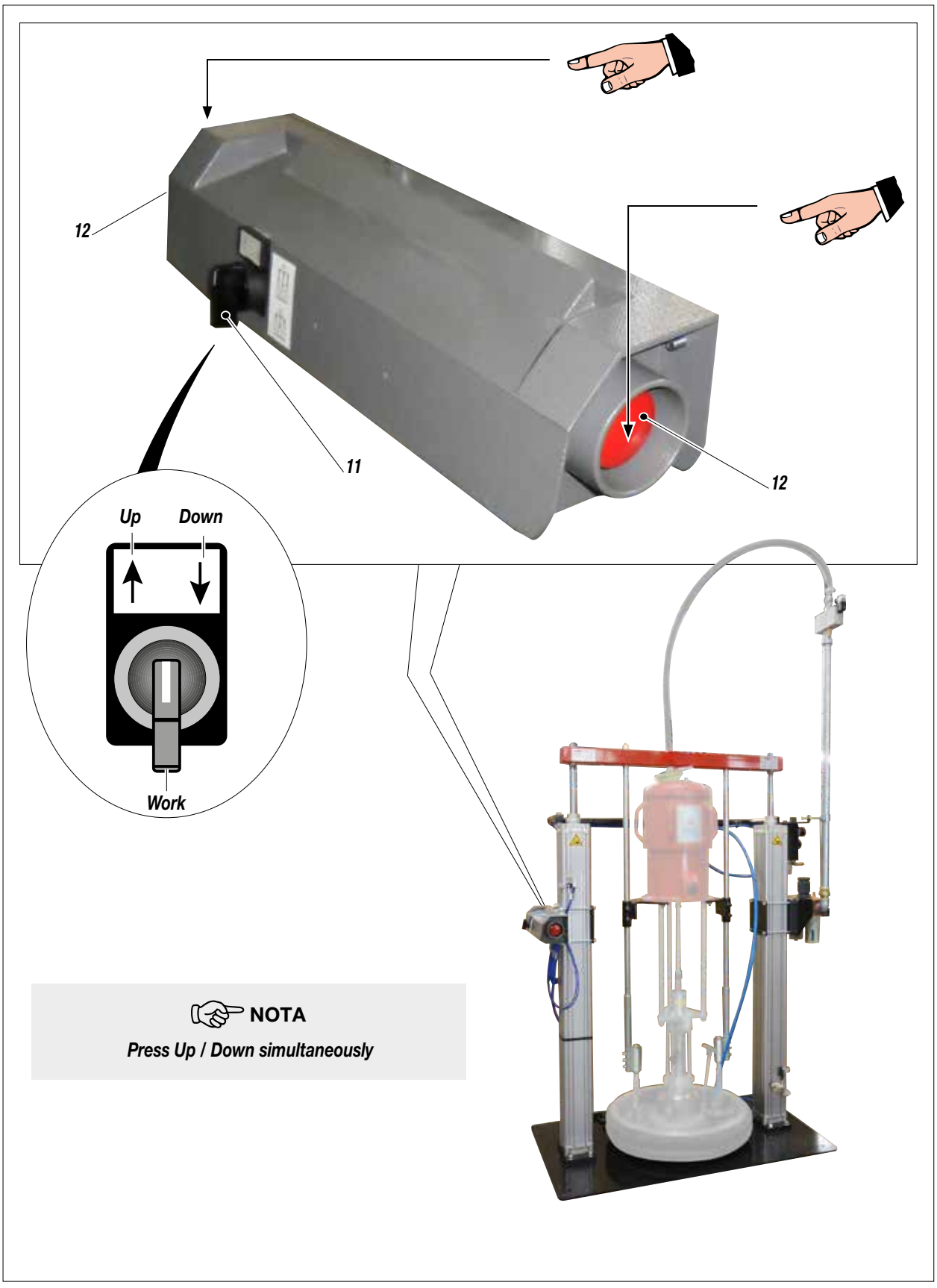


Fig. 2

Pos.	Description
11	Up-Down-Work selector switch

Pos.	Description
12	Two-hand Up / Down control buttons

NOTE

24 Vdc normally closed solenoid valve (13) installed on the air delivery to the pump

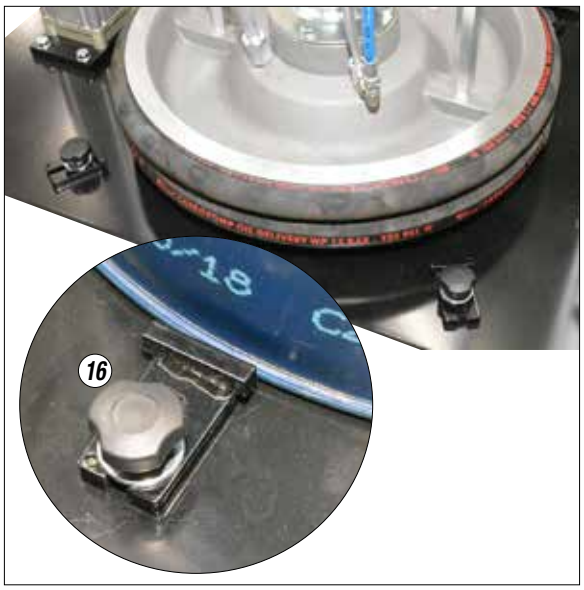


Fig. 3

Pos.	Description
13	Air pump delivery solenoid valve or pneumatic valve
14	Manual inlet valve

Pos.	Description
15	Air delivery to follower plate
16	Drum locking terminals

M PROCEDURE FOR INSERTING THE PRESSING 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

Check all the fittings for connection of the various components (pump, hose, gun etc.), before using the appliance.
Avoid approaching too much to the hoist during lifting and lowering.

Carefully follow the directions below to open the pressing plate in the drum:

- Open the main air supply to the hoist.
- Regulate cylinder pressure to at least 1 bar on the corresponding regulator (**1**).

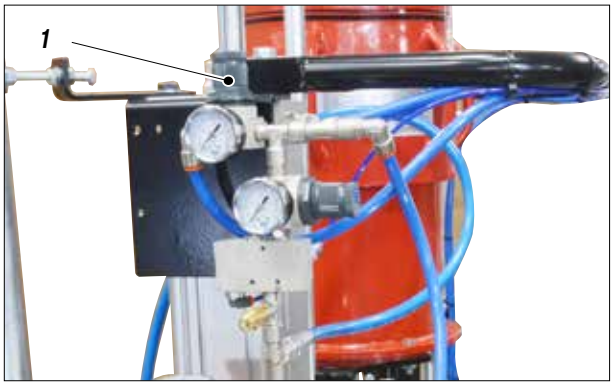


Fig. 1

Turn the selector (**2**) to the up position.

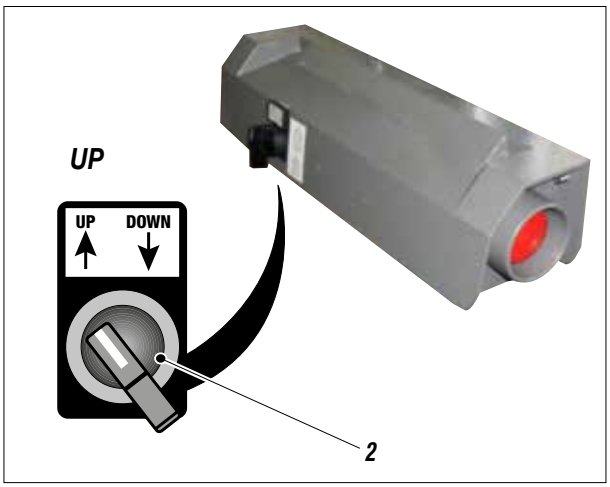


Fig. 2

- Press the two control buttons (**3**) simultaneously.
- Let the hoist reach its maximum height.

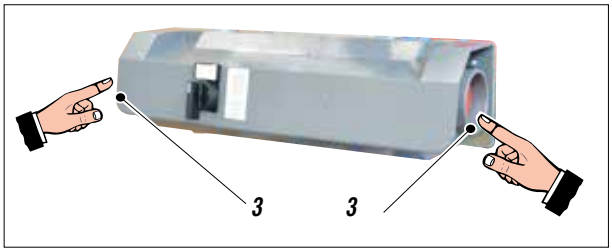


Fig. 3

NOTE

If the hoist does not rise, gradually increase the hoist lifting pressure until it starts to rise. (To increase the pressure, turn the knob (M1) clockwise).

- Remove the cover from the drum by 200 litres (**4**) to be used and place it between the clamps (**9**) on the plate (**5**).

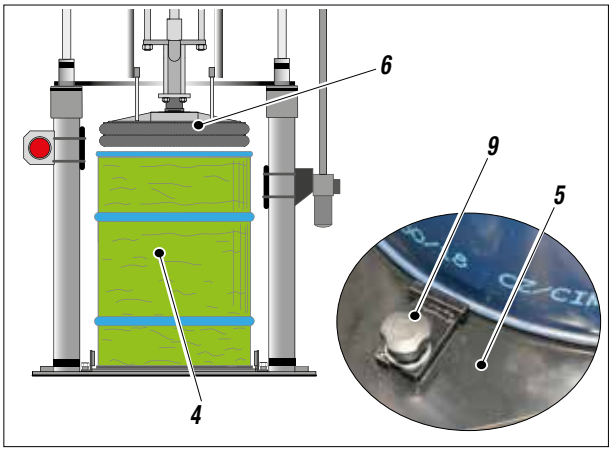


Fig. 4

Check that the drum (4) does not have excessive dents that can cause the pressing plate (6) of the hoist to block inside the drum.

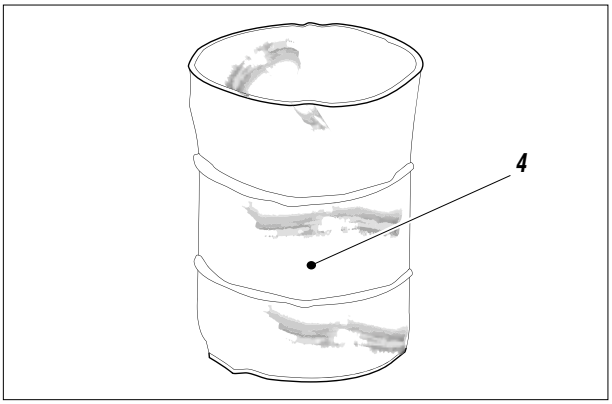


Fig. 5

- Turn the selector (**2**) to the down position.
- Press the two control buttons (**3**) bringing down the pressing plate (**6**) until it arrives near the edge of the drum and stop the descent of the hoist.

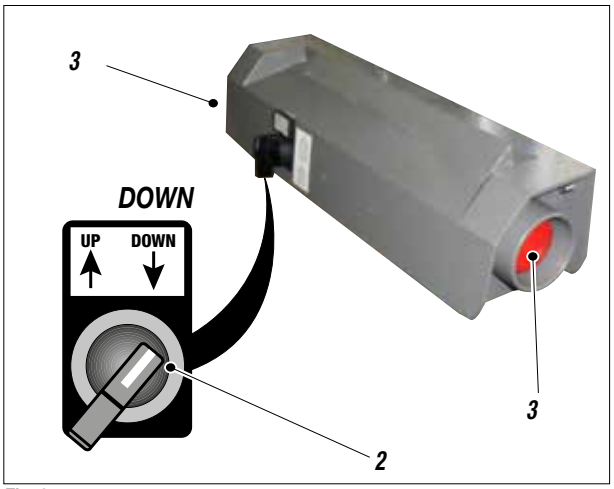


Fig. 6

- Center the drum correctly so that it is aligned with the pressing plate (**6**).
- Lock the clamps (**7**) to secure the drum (**4**).

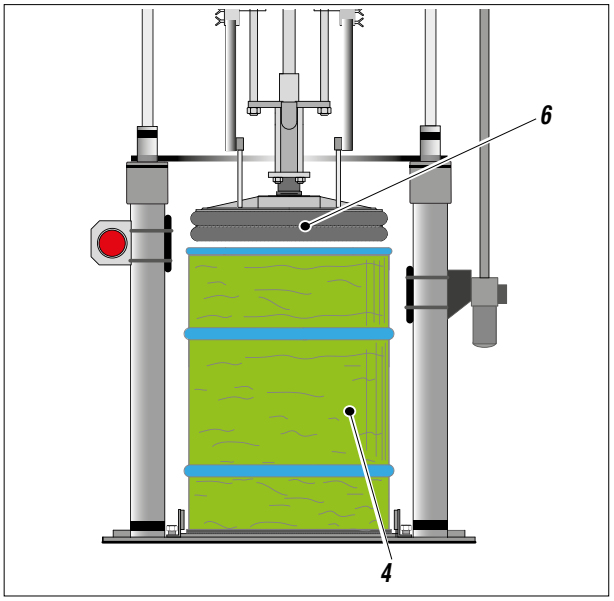


Fig. 7

Fig. 8

- Grease the pressing plate gasket (**6**) and the internal surface of the drum.

Fig. 9

- Close the relief valve (**8**) located on the pressing plate (**6**).

NOTE

The rod (8) of the vent valve must not be completely unscrewed.

Fig. 10

- Lower the pressing plate (**6**) by simultaneously pressing the two buttons of the two-hand control (**3**) until the plate enters the drum and positions itself on the product.

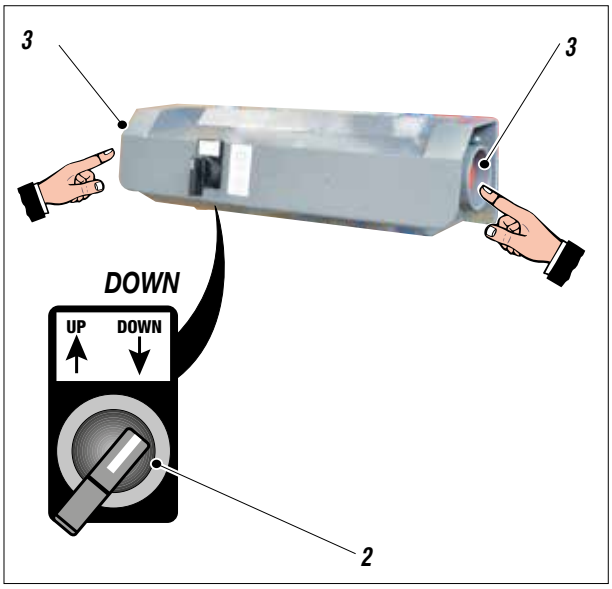


Fig. 11

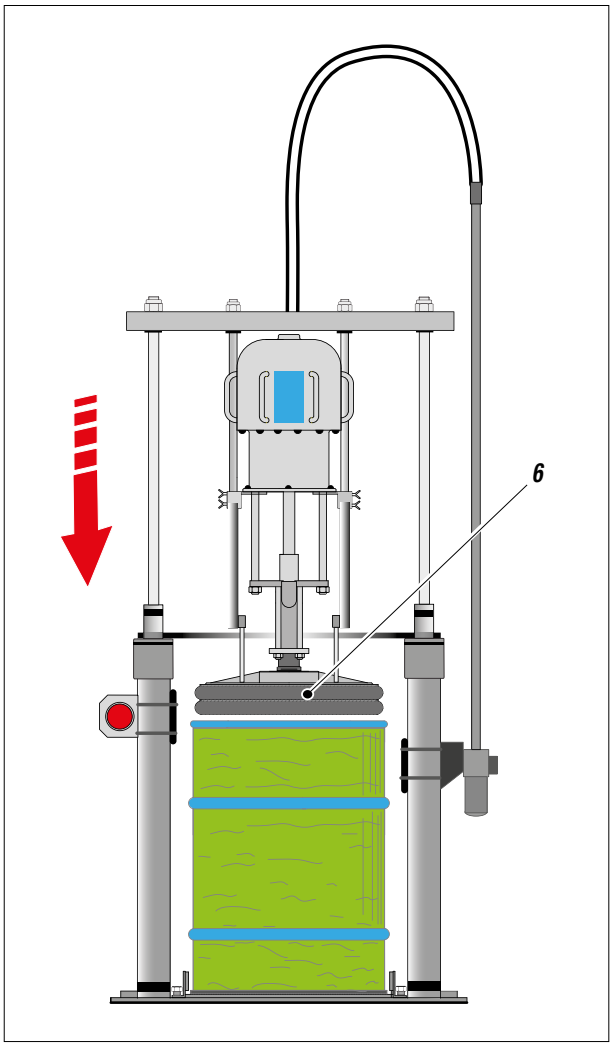


Fig. 12

NOTE

After the descent of the hoist and with the pressing plate inserted inside the drum in contact with the product, leave the selector (2) in the down position during use.

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

- Close the drain valve (**M8**) when the product starts to come out in the absence of air bubbles..

Fig. 13

NOTE

If the pressing plate inclines when inserting the drum, bring the switch of the two-hand control upwards. Rise the pump and then repeat the operation.

The pressing plate may suddenly come out when removing it from the drum: BE CAREFUL OF HANDS AND KEEP 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 PRESSING 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 the hoist will push autonomously without having to press the two-hand control buttons. It may be necessary to act on the hoist thrust air regulator to increase the pressure of the hoist.

N PUMP PRIMING PROCEDURE

- Open the vent valve (**1**) of the pump.

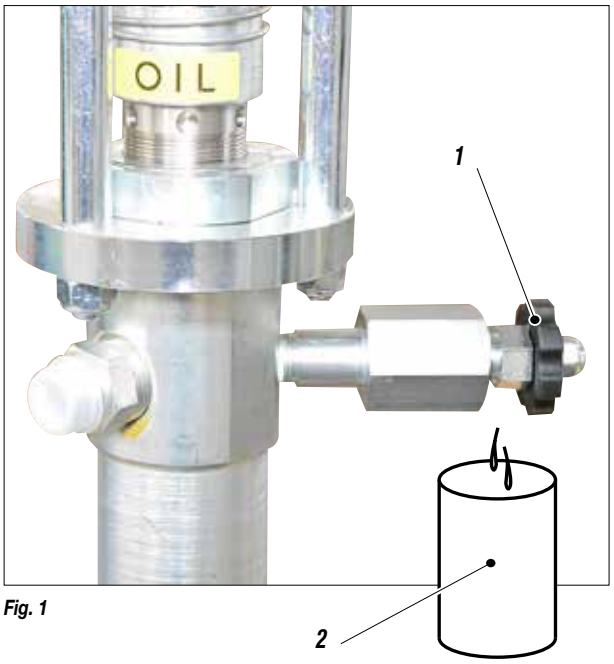


Fig. 1

- Get a can (**2**) to collect the product leaking from the drain valve.

- Open the air opening/closing valve (**3**) of the air regulator that supplies the pump.

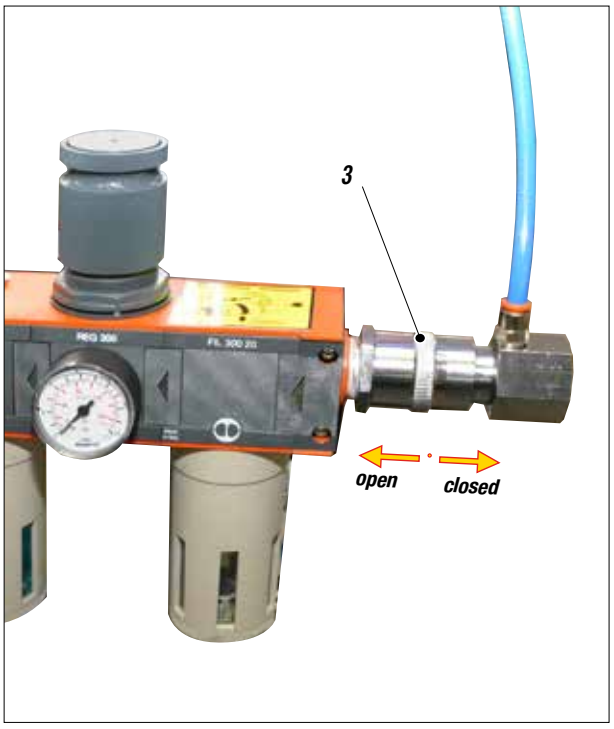


Fig. 2

- Acting on the knob (**4**) of the air regulator, increase the pump supply pressure up to the minimum value necessary for its operation.

Fig. 3N

- Start the pump until the product comes out of the drain valve (**1**).
- Close the valve (**1**).
- Clean any product residues that have come out of the valve to avoid damaging the machine.

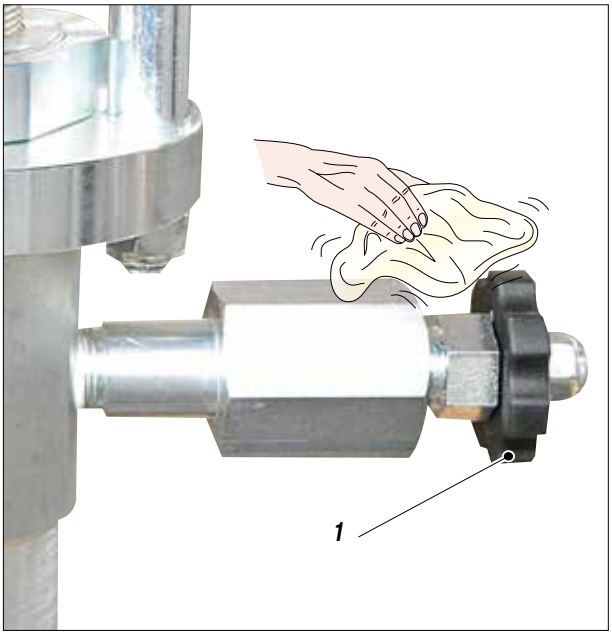


Fig. 4

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O OPERATION

- Open the air opening/closing valve (**1**) of the air regulator to the pump.

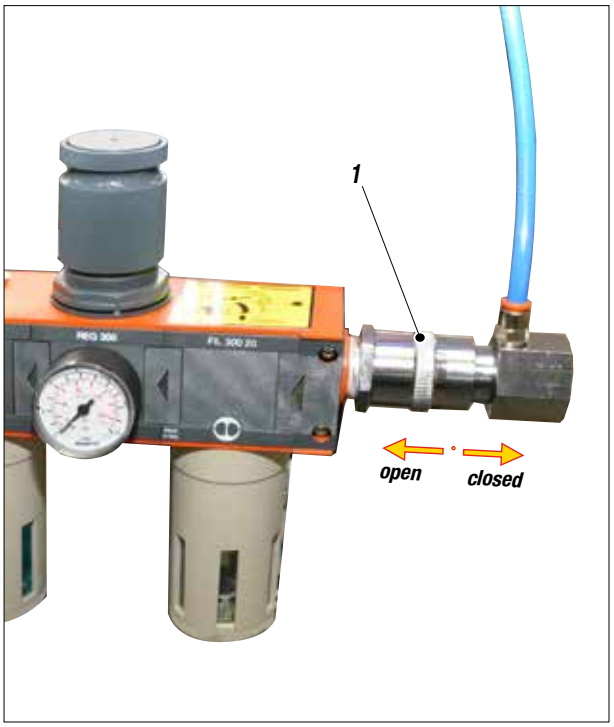


Fig. 1

- Acting on the knob (**2**) of the air regulator, increase the pump supply pressure up to the value necessary for its operation.

Fig. 2

- The pump will start sucking product and will go under pressure. It will stop once equilibrium is reached and will restart every time the gun or dispensing valve is opened.
- In case of difficulty in pump suction, slowly open the drain valve (***3***) located on the pressing plate (***4***) and close it when the product comes out of the drain item.

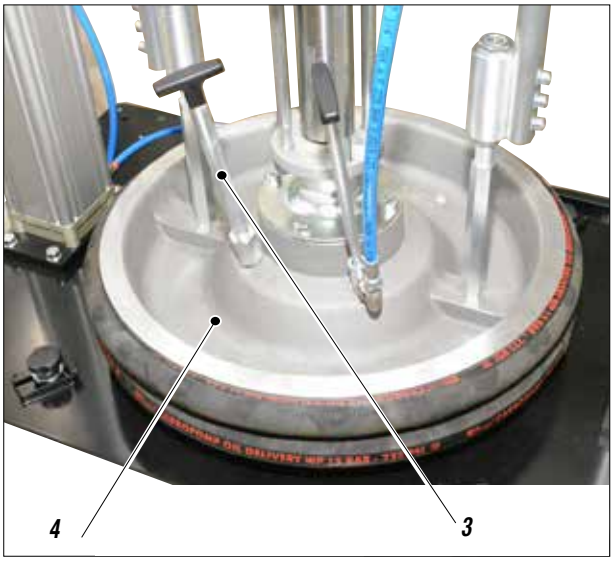


Fig. 3

NOTE

When using the hoist, the selector (O5) should usually be left in the down position.

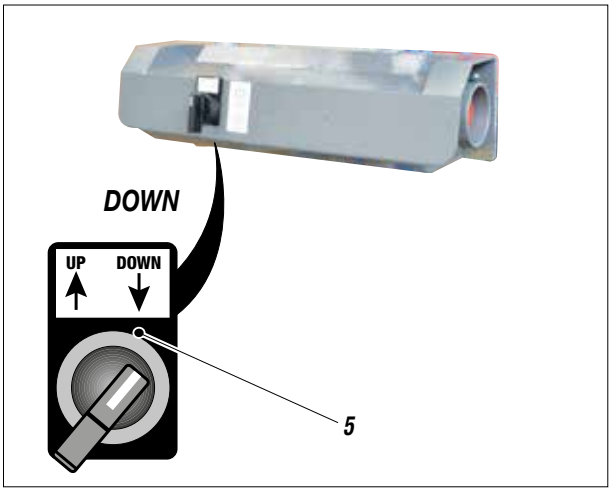


Fig. 4

Avoid getting too close to the hoist during ascent and descent. The pressing plate may suddenly come out when removing it from the drum: be careful of hands and keep 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 pressing 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.

P PROCEDURE FOR EXTRACTION THE PRESSING PLATE IN THE DRUM

To extract the pump and pressure plate from the frame, proceed as follows:

• Make sure that the regulators (**1**) and (**2**) are at 0 bar.

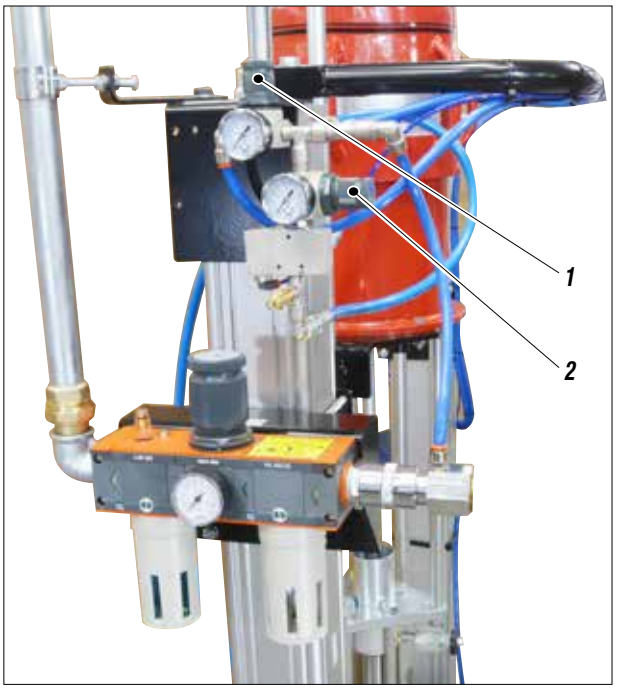


Fig. 1

• Move the two-control selector (**3**) to neutral position.

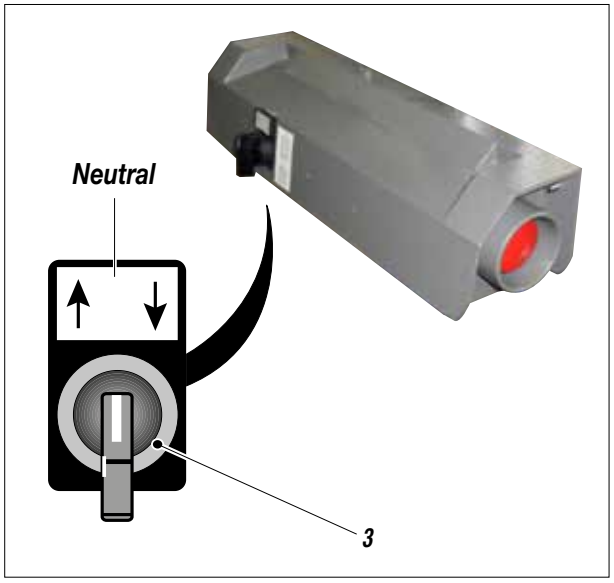


Fig. 2

• Open the tap (**4**).

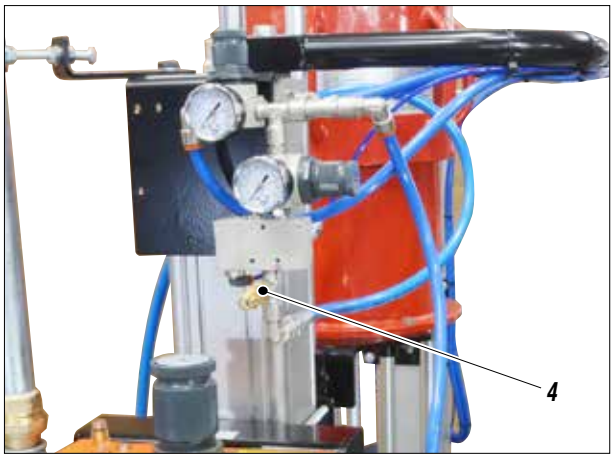


Fig. 3

• Open the air inlet valve drum (**5**).

Fig. 4

• Gradually increase air pressure on the regulators (**1**) and (**3**) up to about 1 bar to raise the hoist.

• Move the selector of the two-hand control (P3) to the up position and press the two buttons (**5**).

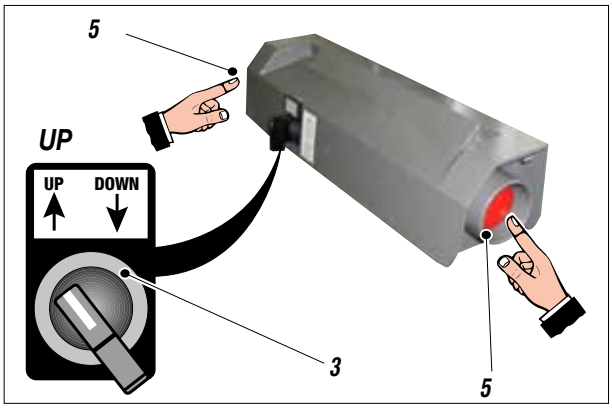


Fig. 5

• Once the pressing plate has been removed, the drum can be removed from the hoist.

• Close the air intake tap (**4**) and the valve (**5**) in the drum.

The pump may have sudden movements during the escape from the drum. Keep away from moving parts.

Q SENSOR POSITIONING

The extrusion ram is equipped with a sensor ***(1)***, positioned on one of the two cylinders (***2***), beyond which hand push becomes automatic, excluding the two-hand control.

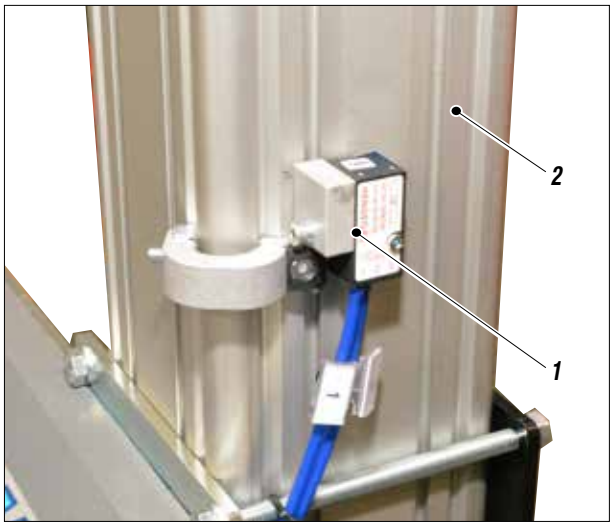


Fig. 1

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.
If you wish to move the sensor to another position:

- Move the selector ***(3)*** to the "**UP**" position and bring the extrusion ram in the maximum cylinder extension position. The pump ***(4)*** is therefore at the maximum height possible.

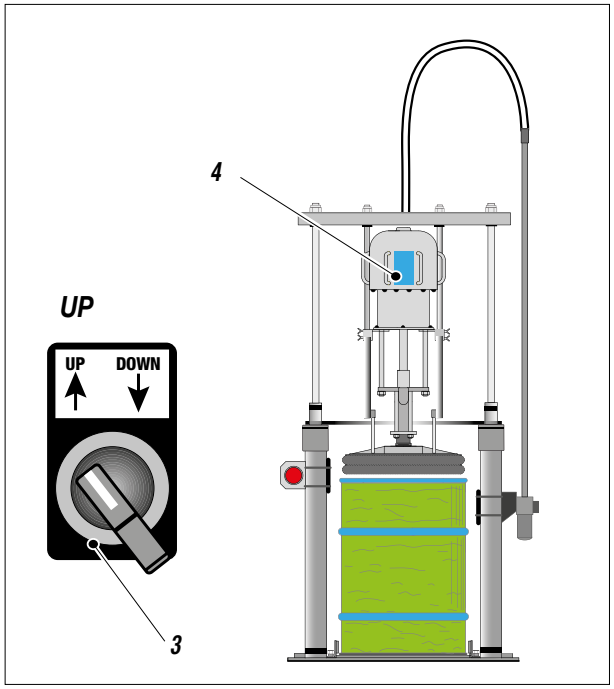


Fig. 2

- Disconnect the sensor from the pneumatic cylinder by unscrewing the locking screw. Extrusion ram movement will be possible manually using the two-hand control.
- Set the selector to "**DOWN**". Using the two-hand control (***5***), position the pump at the height at which you want the sensor to intervene and leave the selector on the "**DOWN**" position.

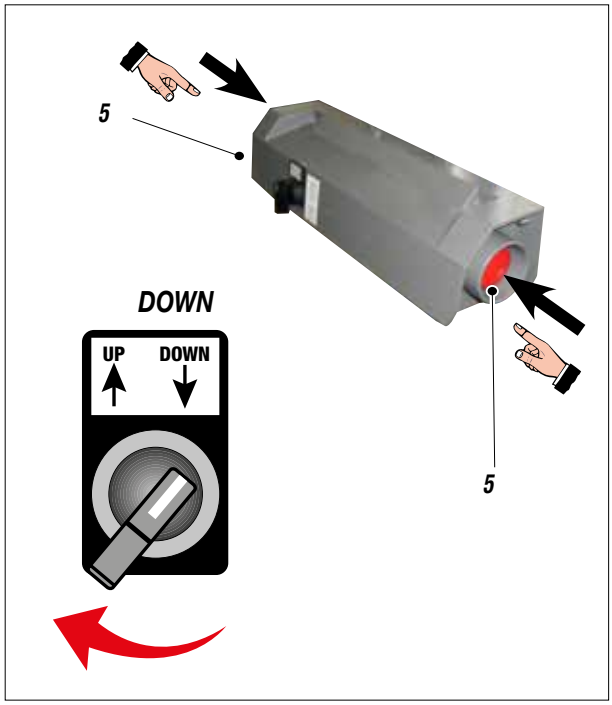


Fig. 3

- Disconnect the air hose (***6***) of the sensor entering into two-hand control input.

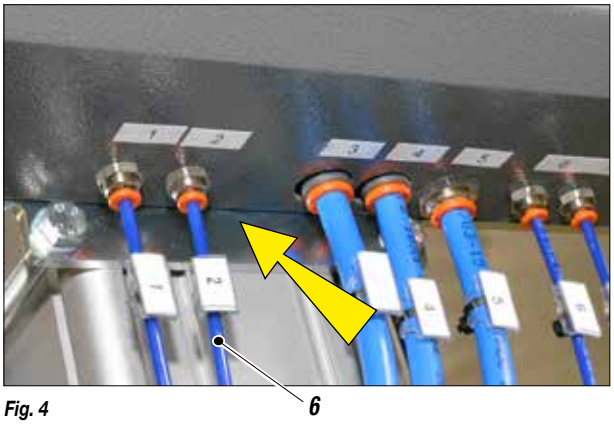


Fig. 4

- Now, sliding the sensor 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.
- Lock the sensor at this point using a locking screw.

- Move the two-control selector to neutral position (**7**).

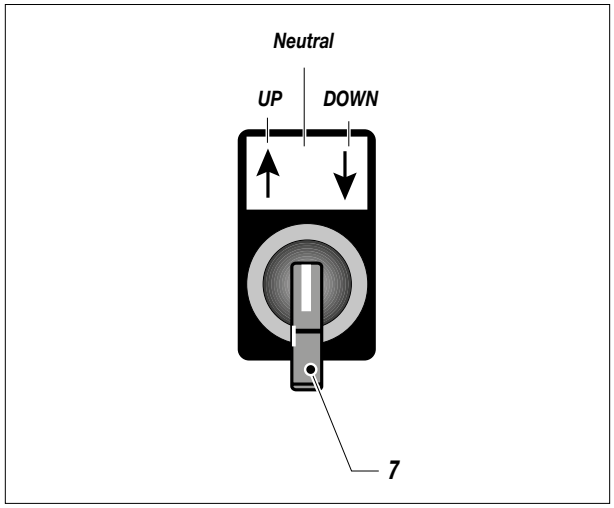


Fig. 5

- Re-attach the previously removed air hose on the two-hand control input.

NOTE

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.

R ROUTINE MAINTENANCE

- Periodically make sure that air supply remains clean and lubricated.
- Periodically check the pressure plate gasket.
- Follow the instructions given in the various component manuals.

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

AIR TREATMENT GROUP CONTROL

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

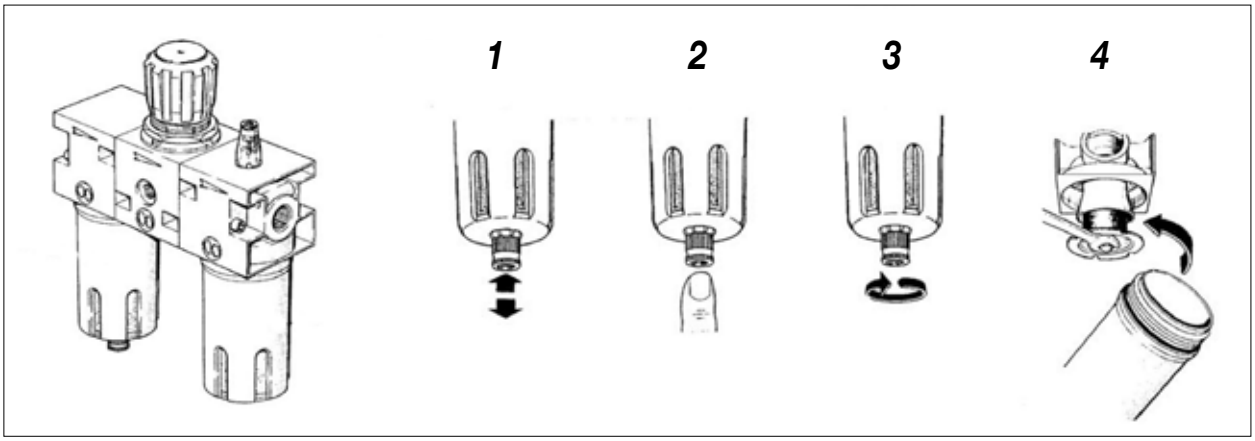


Fig. 1

- With the button in the center position the faucet is semiautomatic, 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 group.

LUBRIFICATOR

- For proper lubrication, set the lubrication through the screw, so as to dispense 1 drop approximately every 30 seconds.
- Adjusting you can do by looking at the fall of the drop itself.
- Keep lubricator cup filled with a mixture of water and antifreeze liquid (ratio 4:1). Refilling is necessary when the level is at a minimum.
- The oil level can be seen through the glass container. The container should be clean with a damp cloth before filling.

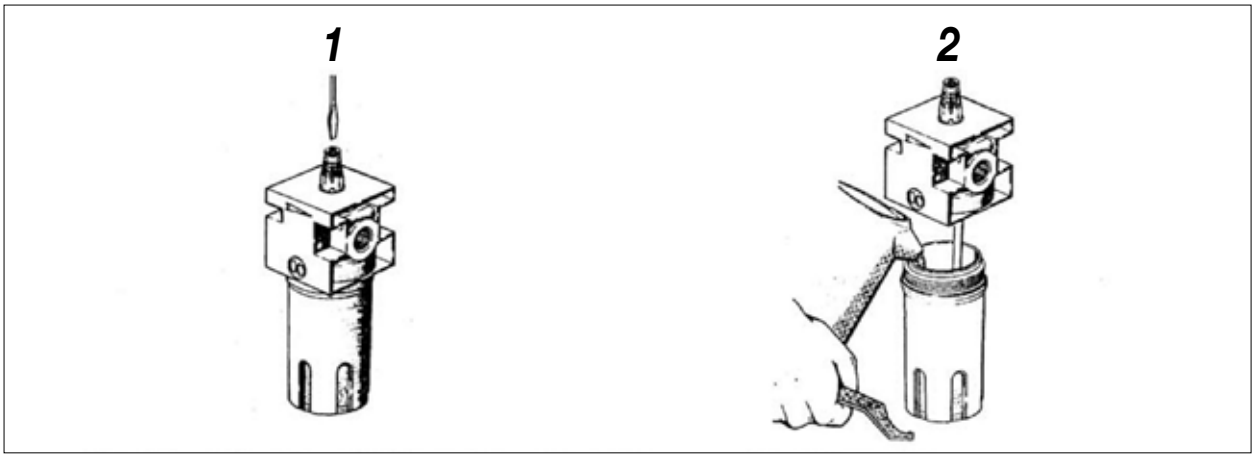


Fig. 2

S PROBLEMS AND REMEDIES

Problem	Cause	Solutiones
The hoist does not lift	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 pressing 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	Chovel plate gasket worn	Replace the gasket
	The feed air pressure of the pneumatic cylinder is too hogh	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

T SPARE BAR PARTS

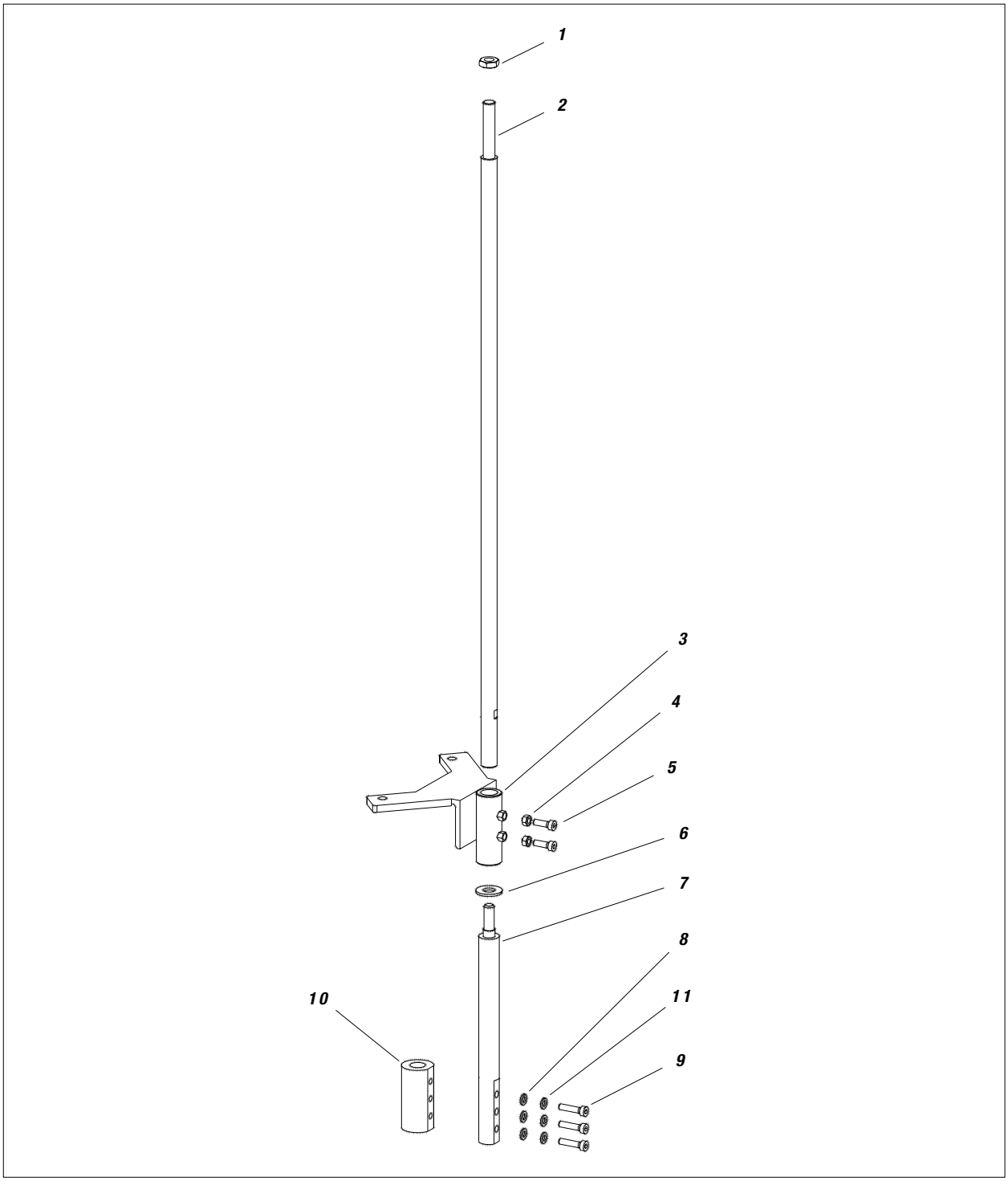


Fig. 1

Pos.	Code	Description
1	95013	Nut
2	510013/1	Top locking bar
3	510012	Pump support
4	4108	Nut
5	96031	Screw
6	510013/4	Washer

Pos.	Code	Description
7	510013/2	Top of the bottom
8	34009	Washer
9	81032	Screw
10	510013/3	Plate fixing sleeve press
11	32024	Washer

U SPARE UPPER STRUCTURE PARTS

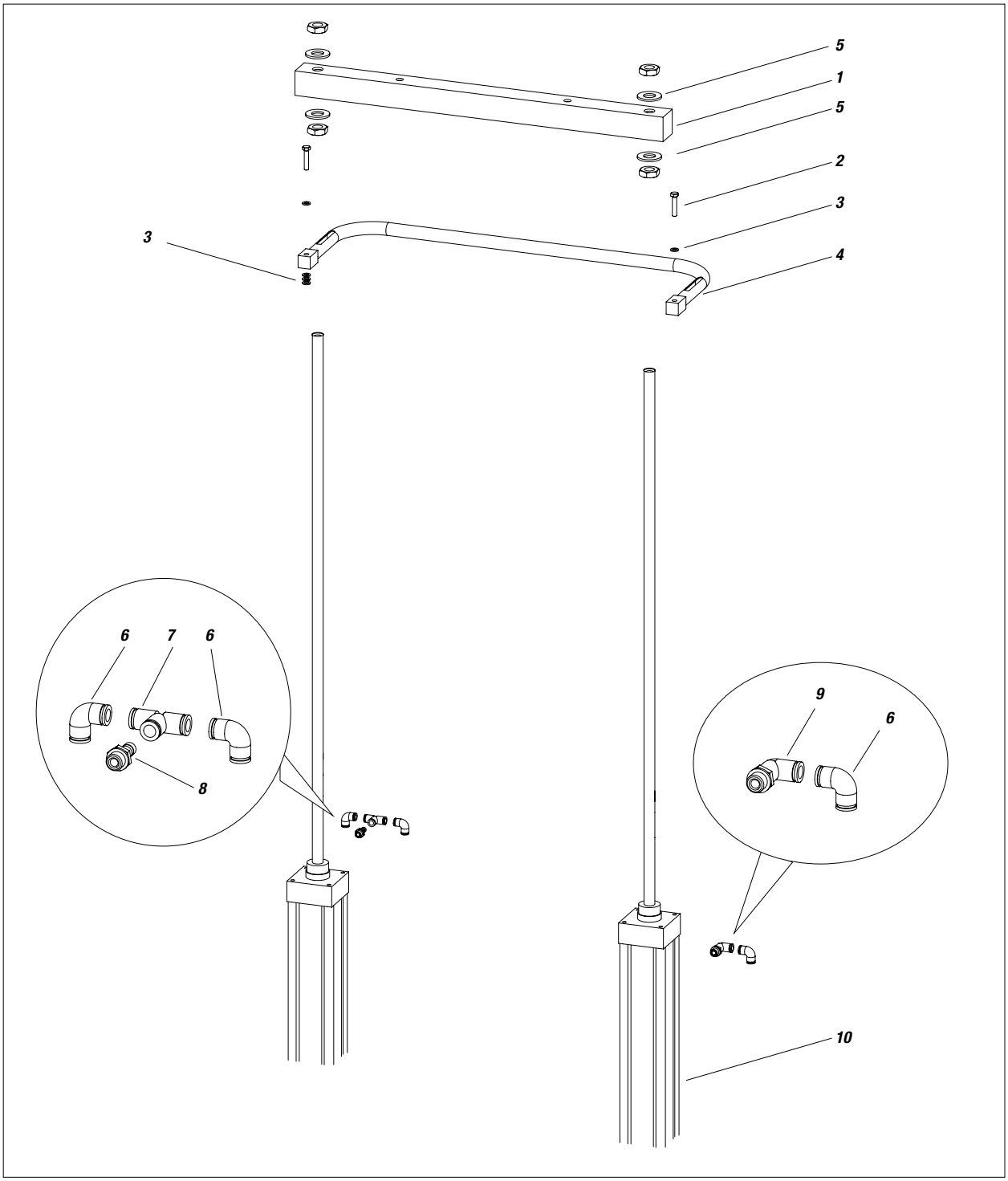


Fig. 1

Pos.	Code	Description
1	510018	Cross
2	4738	Screw
3	81033	Washer
4	510086	Rear bar
5	95110	Washer

Pos.	Code	Description
6	5359	Attack 90°
7	510049	"T" attack
8	5597/2	Attack 1/2" d=10 mm
9	19186/1	Fitting 90°
10	510104	Pneumatic cylinder

V SPARE LOWER STRUCTURE PARTS

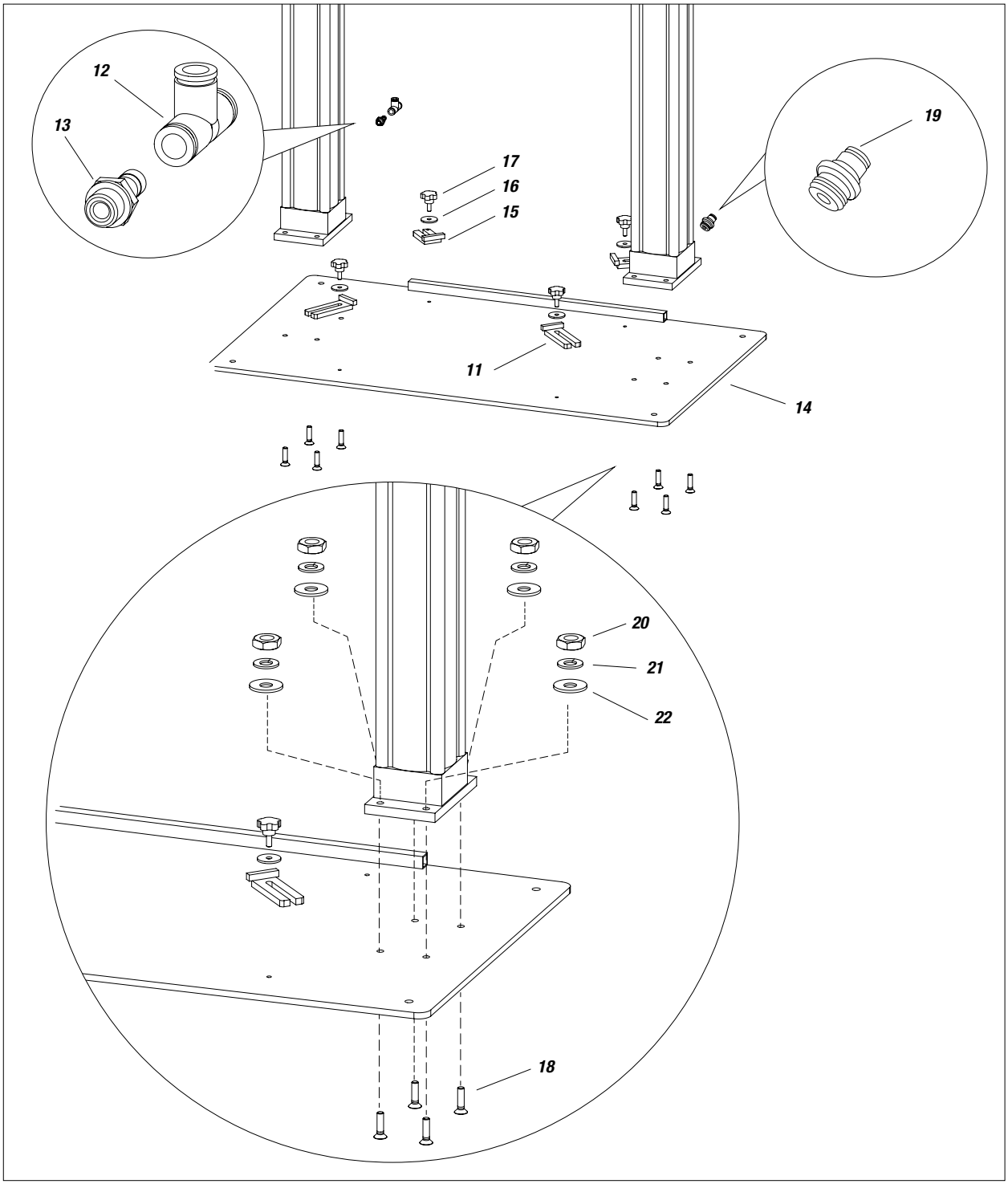


Fig. 1

Pos.	Code	Description
11	510035	Clamp long
12	510049	"T" quick coupler
13	5597/2	Fitting 1/2 "D = 10 mm
14	510087	Bed hoist
15	510036	Short Terminal
16	95153	Washer

Pos.	Code	Description
17	510037	Knob
18	510003	Screw
19	8056/1	Fitting
20	95158	Nut
21	95096	Open washer
22	81033	Washer

W SPARE AIR UNIT PARTS

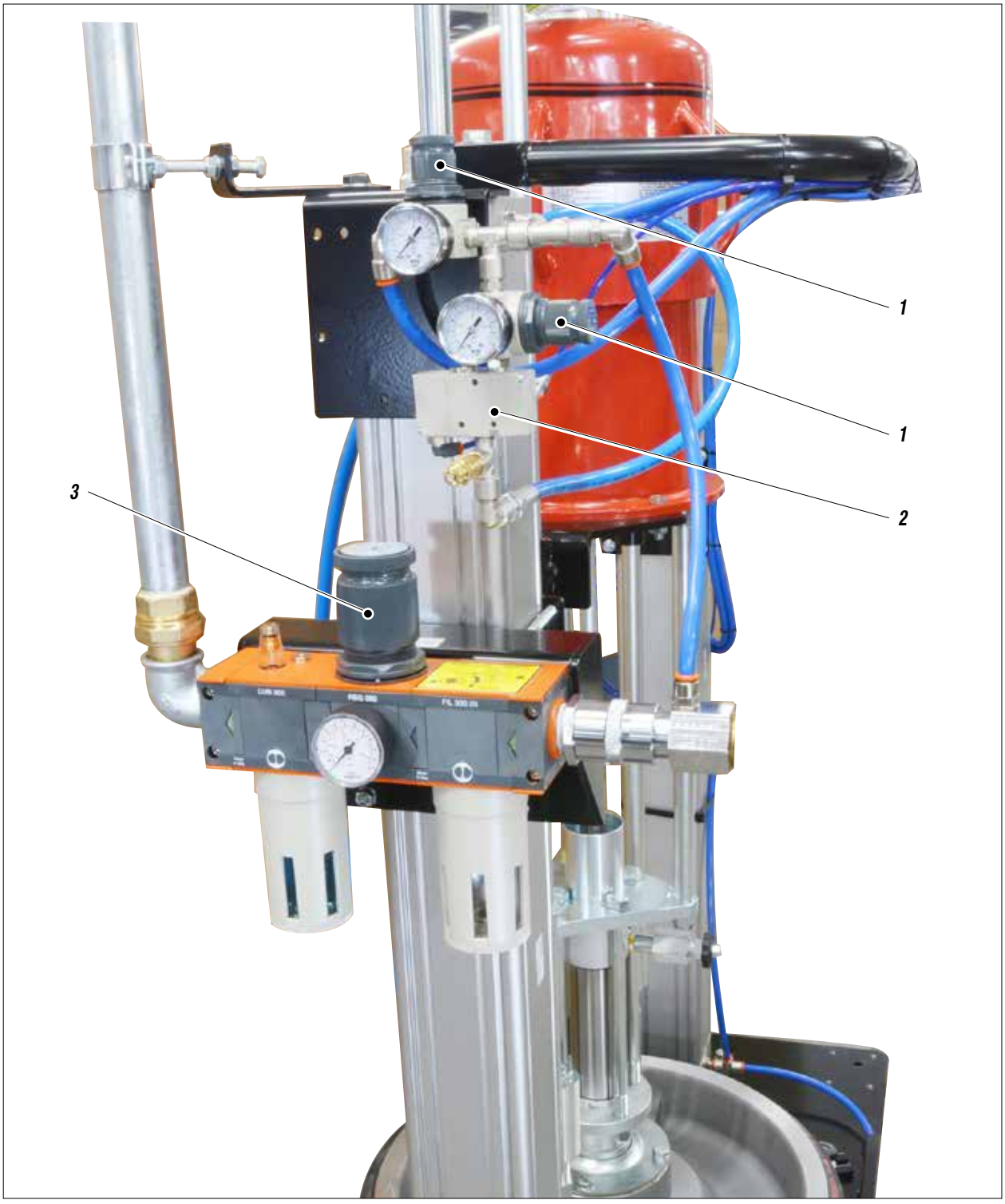


Fig. 1

Pos.	Code	Description
1	3345	Regulator
2	5649	Complete solenoid valve
3	95350 96259	FRL air treatment group

X SPARE TWO-HAND CONTROL PARTS

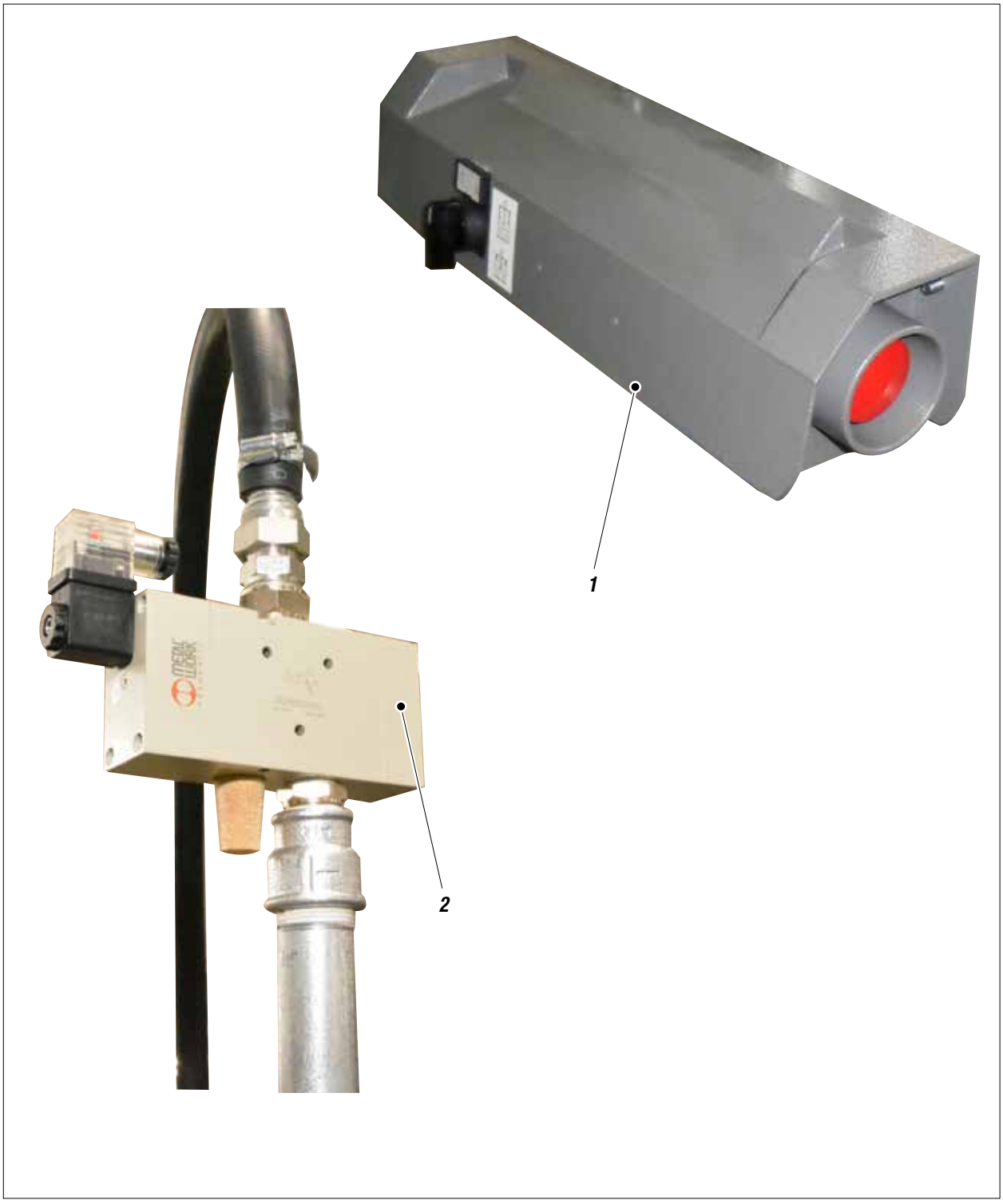


Fig. 1

Pos.	Code	Description
1	510001	Two-hand control
2	5650	Air pump delivery solenoid valve or pneumatic valve

Y SPARE FLAT DISC PRESSING PARTS

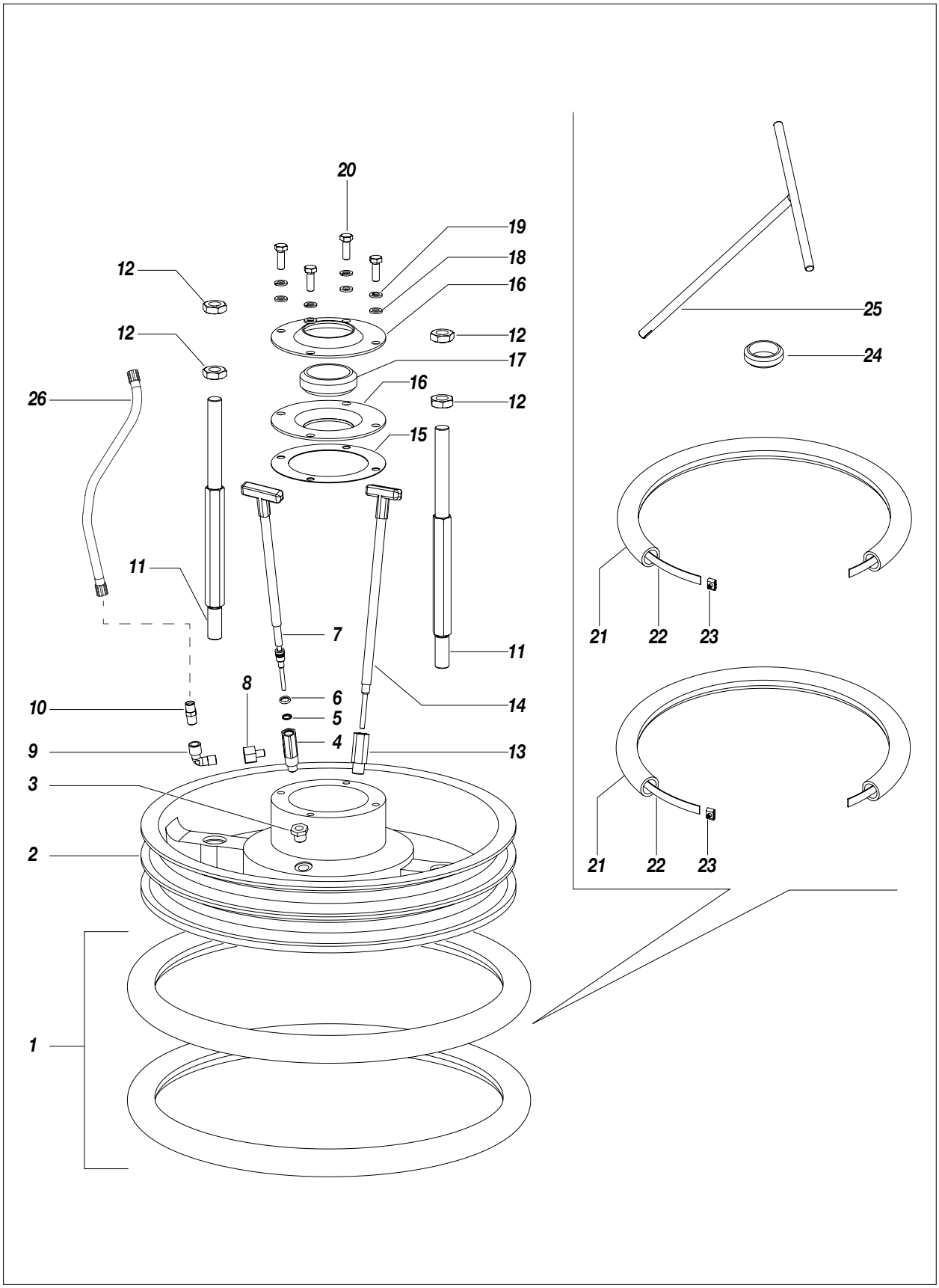


Fig. 1

Pos.	Code	Description
1	510702/1	Flat gaskets blowing
2	510700	Flat disc pressing
3	5258	3/8-1/4 reduction
4	18573	Drain hose
5	918571	Snap ring int. UNI7437-13
6	12572	Or 2037
7	18572/2	Auction
8	22066	1/8 conical reduction M-F-1/4
9	5255	Elbow 1/4 M-F
10	96208	Nipple with 1/4-cyl
11	510010	Threaded screw for fixing plate
12	95007	Nut M20
13	510059/1	Drain rod sleeve

Pos.	Code	Description
14	510780	Complete auction
15	510005	Upper Seal
16	510006	Premianello disk
17	510008	Ring
18	81083	Washer D10
19	85096	Grower washer
20	95156	Screw TE UNI 5739 M10x30
21	510702	Gasket for pressure plate
22	510054	Steel tape 3/4 ''
23	510004	Screw clip 3/4 '' with wheat
24	510005	Upper Seal
25	510055	Adjustment key
26	510715	Air hose

Z SPARE PARTS FRL AIR TREATMENT GROUP WITH GAUGE

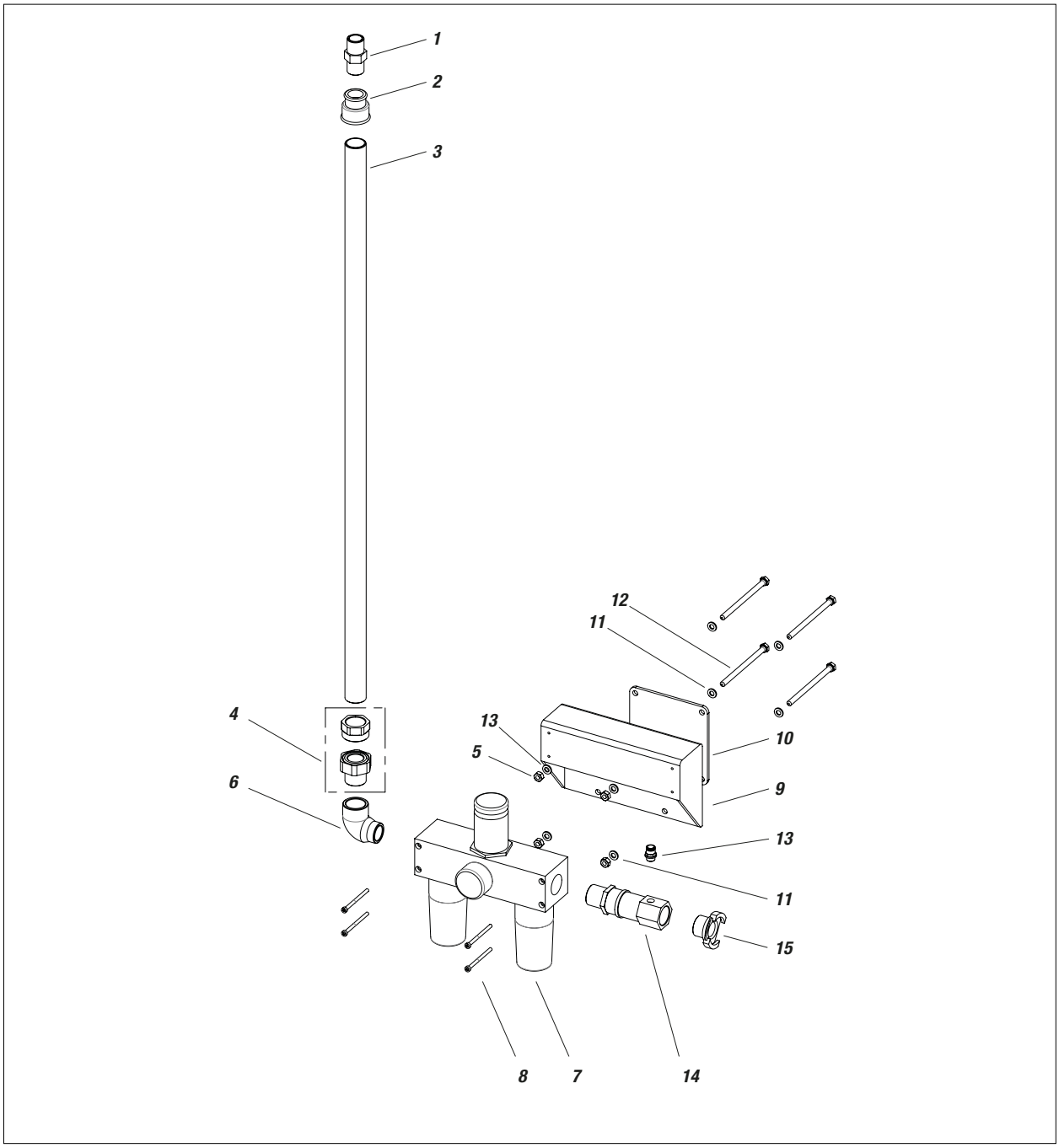
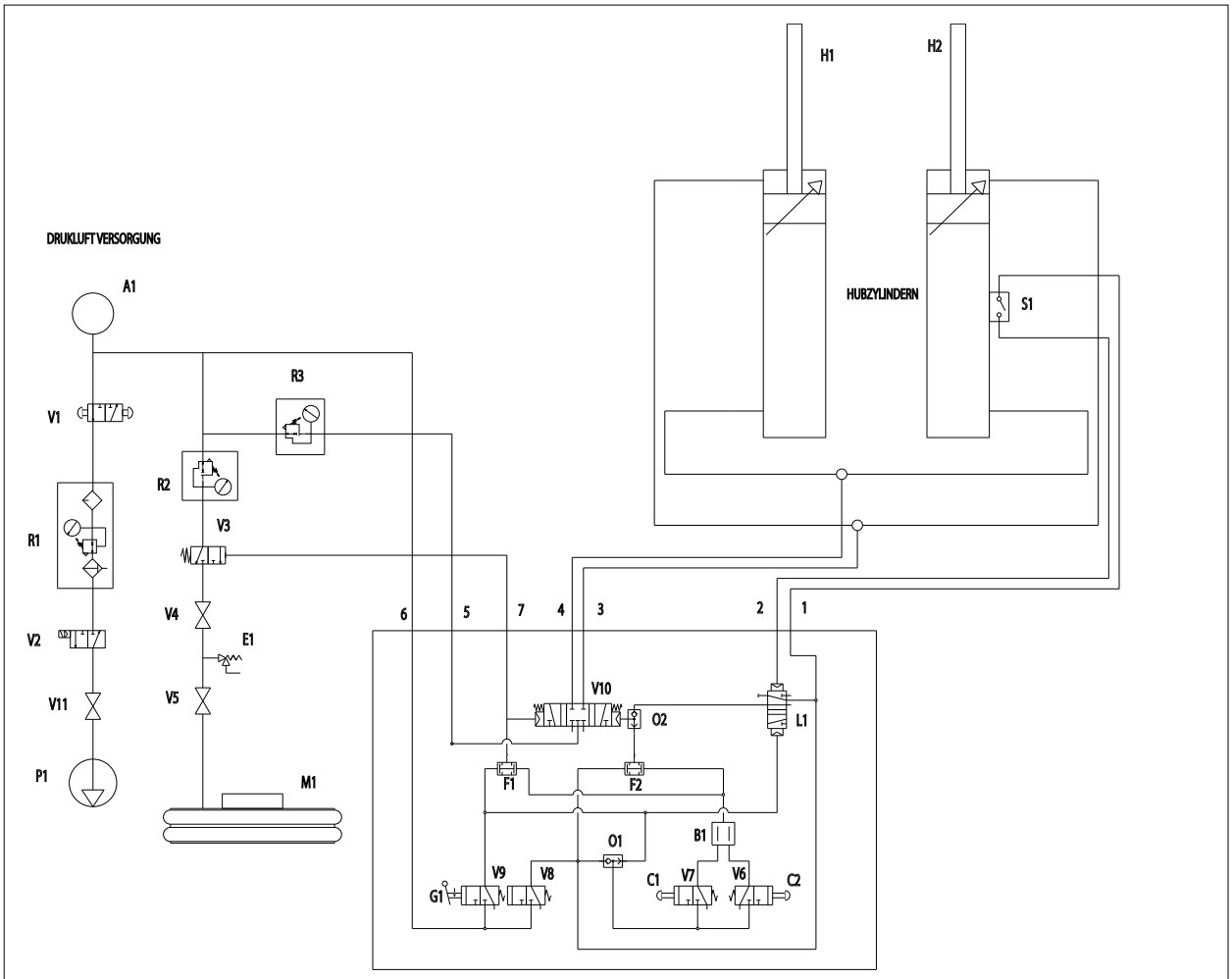


Fig. 1

Pos.	Code	Description
1	95090	Nipple 3/4 with. CIL
2	95313	3/4 ''-1 reduction
3	510111	1 '' tube
4	510052	Sleeve in 3 pieces
5	4108	Nut m8
6	95031	Elbow 1 ''
7	95350 96259	The frl Group 1 '' + pressure gauge

Pos.	Code	Description
8	95325	Screw m5x70 tce
9	510102	BRACKET
10	510103	Skid plate
11	32024	Washer d. 8
12	510029	Screw te m8x130
13	5549	1/4 quick coupler hose d10
14	95323	Valve
15	95302	Fitting

AA PNEUMATIC DIAGRAM



POS.	BESCHREIBUNG	HERTSTELLER	ARTIKELKODE
A1	DRUKLUFT VERSORGUNG		
R1	FILTER UND REGLER MIT MANOMETER	PSERVICE	4682005
R2	REGLER MIT MANOMETER	PSERVIVE	5207003
R3			
V1	HANDBETAETIGTES SCHNELLENTLUEFTUNGSVENTIL	METALWORK	W097005006
V2	MAGNETVENTIL 24V cc N.C.	METALWORK	W7030020200
V3	PNEUMATISCHES VENTIL	METALWORK	W7020010200
V4	HENDBETAETIGTES VENTIL	PSERVICE	E4980002
V5	HENDBETAETIGTES VENTIL	LARIUS	18570
V6	VENTIL PNV 36 PNC CC	METALWORK	W7020012100
V7			
V8			
V9			
V10	VENTIL VME1-01 NC D4	METALWORK	W7020012100
V11	HENDBETAETIGTES VENTIL	METALWORK	W0970550046
P1	PUMPE GHIBLI 24:1	LARIUS	96805
E1	MAX. DRUCK SICHEREITSVENTIL	PSERVICE	Z25P2609010069
M1	FOLGEPLATTE	LARIUS	510100
B1	ZWEIHAND-SICHERHEITSSATZ	METALWORK	W3605000001
O1	LOGISCHE OR-ELEMENT	METALWORK	W3604000001
O2			
F1	LOGISCHE AND-ELEMENT	METALWORK	W3604000002
F2			
C1	ROTER DRUCKKNOPF D40	METALWORK	W0351000013
C2			
L1	LOGISCHE SPEICHERELEMENT	METALWORK	W3604000005
G1	3-POSITIONENE WAHLSHALTER	METALWORK	W0351000037
S1	SHALTER PN 2-8 0490300	HENGLSTER	Z25P6409700001
H1	ZYLINDERN	METALWORK	W121LA1ZA00AN
H2			

ZWEI-HAENDE BETAETIGTES STEUERWERK

1 - VERSORGUNG DRUCKSENSOR (SCHLAUCH D.4 MM)
2 - RETURN-SIGNAL VON DRUCKSENSOR (SCHLAUCH D.4 MM)
3 - VERSORGUNG ABWARTSFAHREN (SCHLAUCH D.8 MM)
4 - VERSORGUNG AUFWARTSFAHREN (SCHLAUCH D.8 MM)
5 - VERSORGUNG HUBZYLINDER (SCHLAUCH D.10 MM)
6 - VERSORGUNG STEUERUNGSSCHALTER ABWAERTSFAHREN - AUFWAERTSFAHREN
7 - STEUERSIGNAL DES VENTILS FUER DIE BELUEFTUNG DES BEHAELTERS

Fig. 1

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DECLARATION OF CONFORMITY

Company

LARIUS srl
Via Antonio Stoppani 21 - 23801 Calolziocorte (LC) ITALY
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Fax: +39 0341 621243

E-mail: larius@larius.com

Declares under his owns resonsibility that the product:

PNEUMATIC HOIST
twin mast for 200 litres drums two-hand control

complies with the directives:	**- EC Directive 2006/42 Machinery Directive**
furthermore to the harmonized standards:	**- UNI ENI ISO 12100-1/-2** **Machinery safety, basic concepts, general principles of design. Basic terminology, methodology. Technical principles.**

This declaration relates exclusevely to the product in the state in which it was placed on the market, and excludes components or modifications which are added or carried out subsequently by end user.

Signature

Calolziocorte, 10 June 2024
Location / Date

Pierangelo Castagna
Managing Director

SAMOA
LEADING THROUGH INNOVATION

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Visit **www.samoaindustrial.com** for more information.

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