



LEADING THROUGH INNOVATION

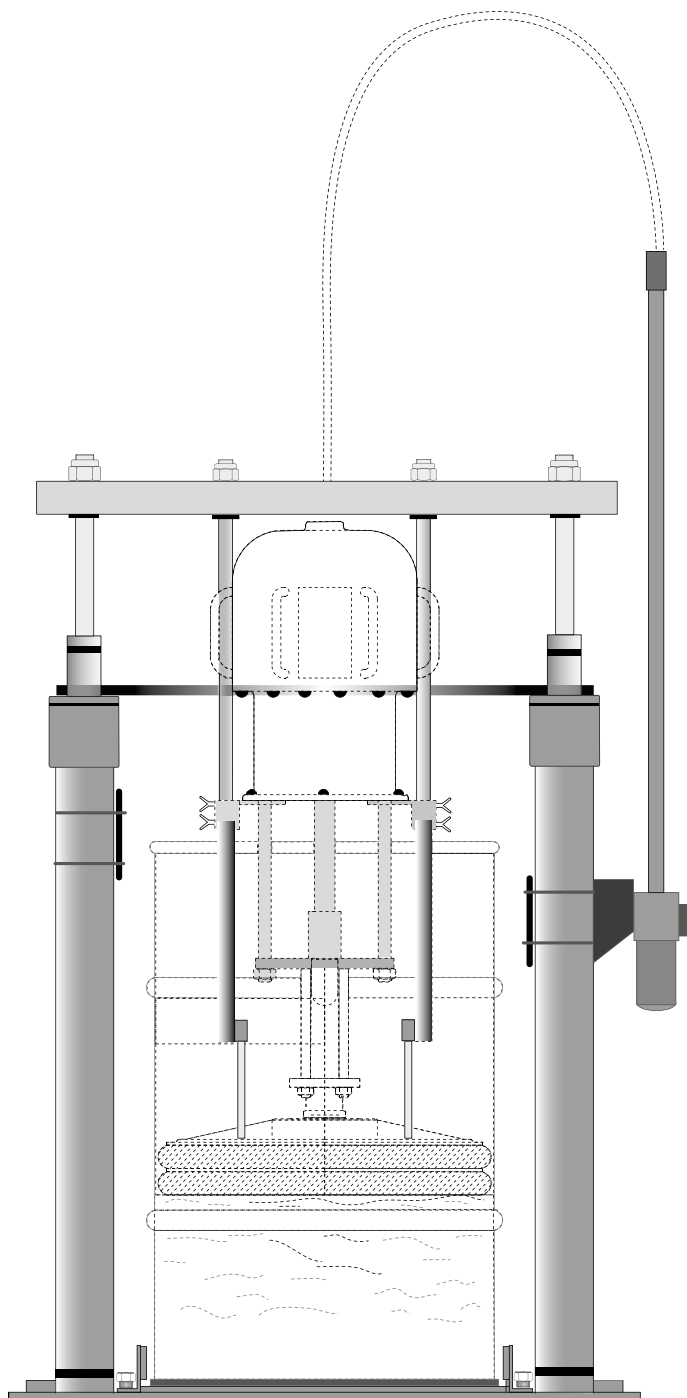
EN

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# PNEUMATIC HOIST

twin mast for 200lt cylindrical drums

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

## B TECHNICAL DATA

PNEUMATIC HOIST 200	
Max air pressure	7 Bar
Air inlet diameter	3/8"
Weight	200 Kg
Pressing plate	Double gasket Cod. 510100
Ground fixing	# 4 expansion bolts
Drum type	Cylindrical - 200 litres
Drum inner diameter (D)	572mm
Maximum drum height (E)	990mm
Length (A)	910 mm - max 1260 mm
Height (B)	1535 mm (closed)
	2035 mm (open)
	2535 mm (with hose)

PNEUMATIC HOIST 200	
Width (C)	825 mm
Pump type	NOVA 55:1
	OMEGA 28:1
	OMEGA 40:1
	VEGA 45:1
	SIRIO 33:1
	SIRIO 22:1
	SIRIO 60:1
	GHIBLI 26:1

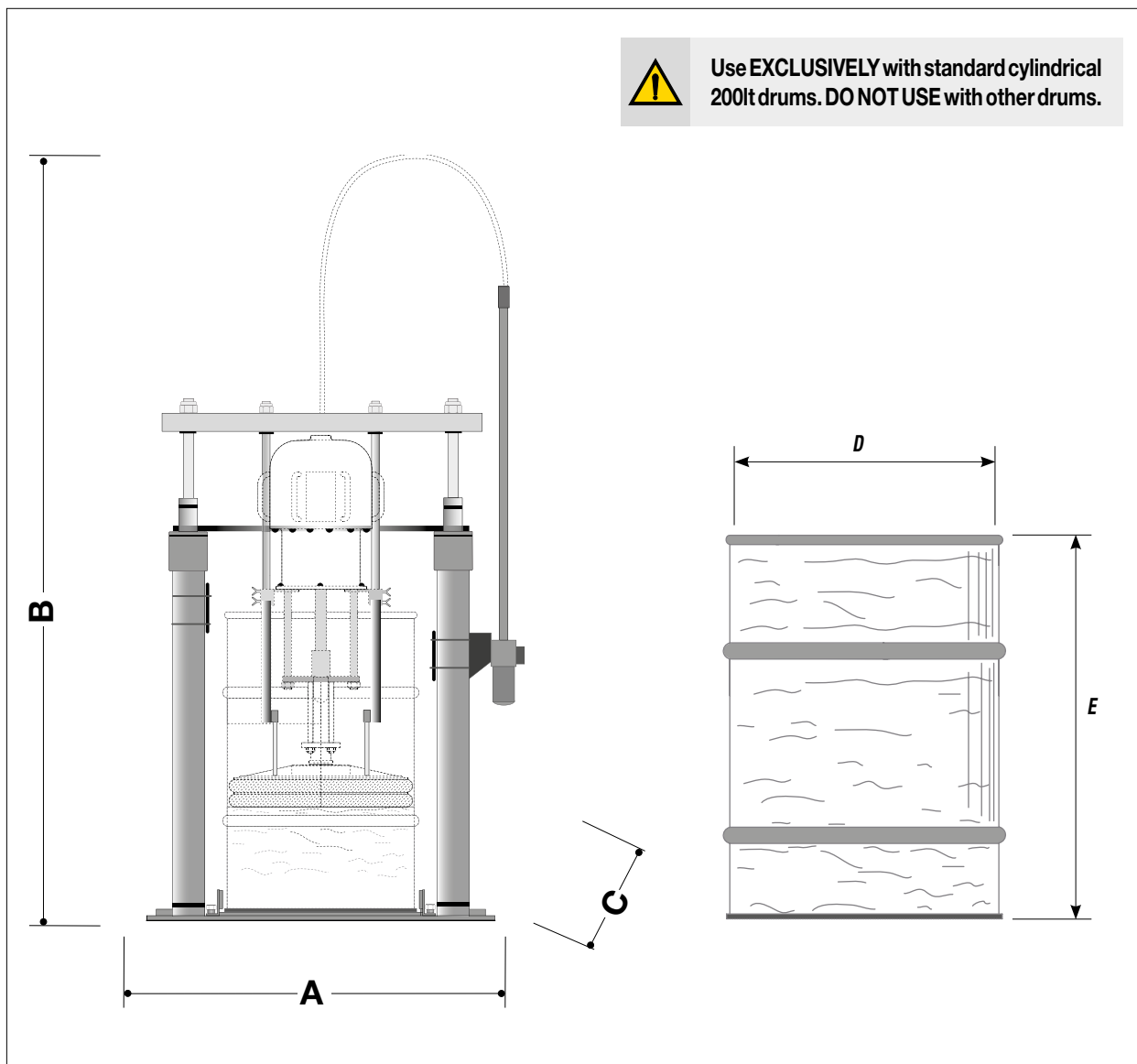


Fig. 1

## D 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.

## E 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.

## F 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 CONNECTIONS 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 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 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).

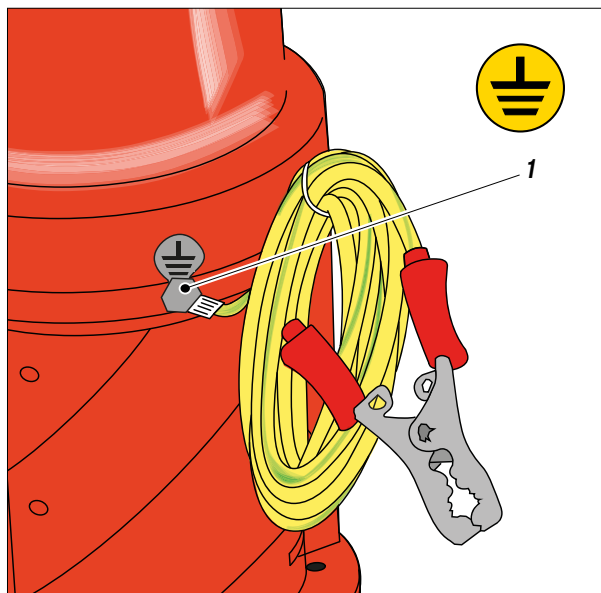


Fig. 1



## 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).

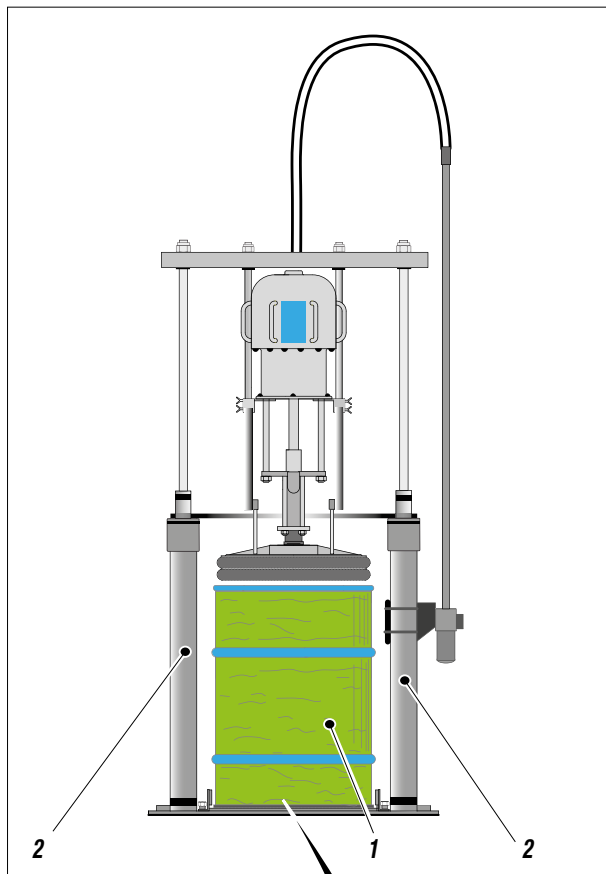


Fig. 1

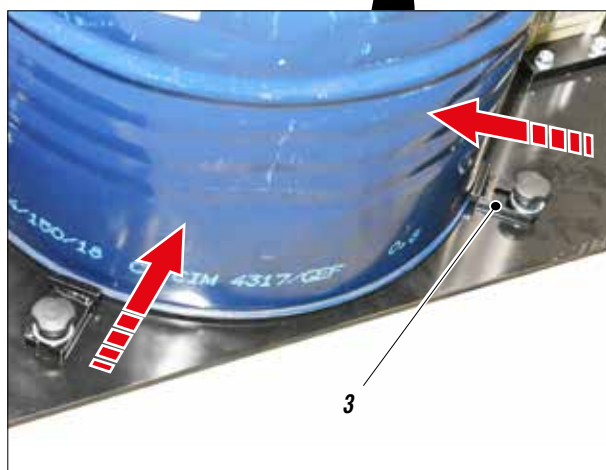


Fig. 2

- 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.*



**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.

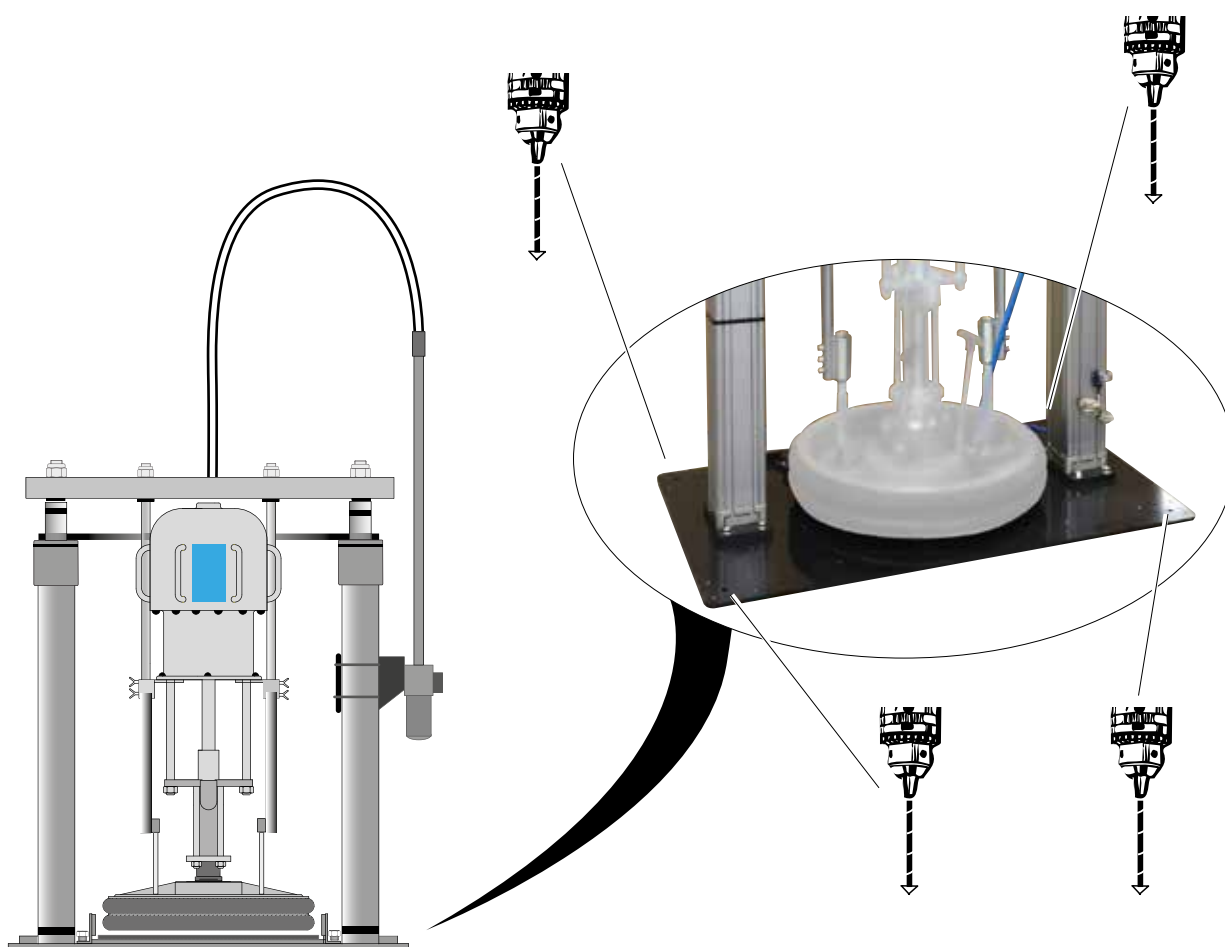
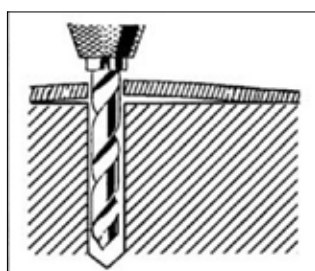
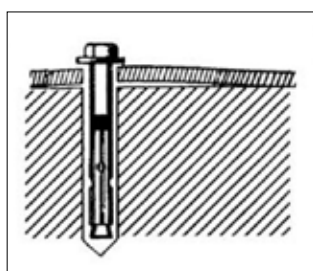


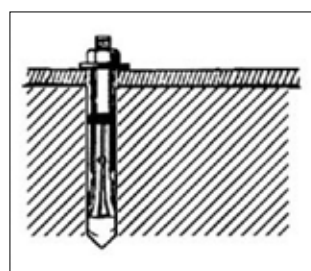
Fig. 1



**1** Drill



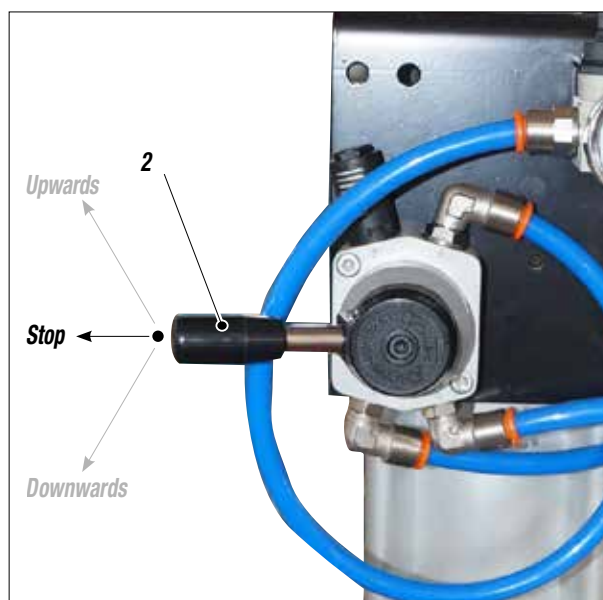
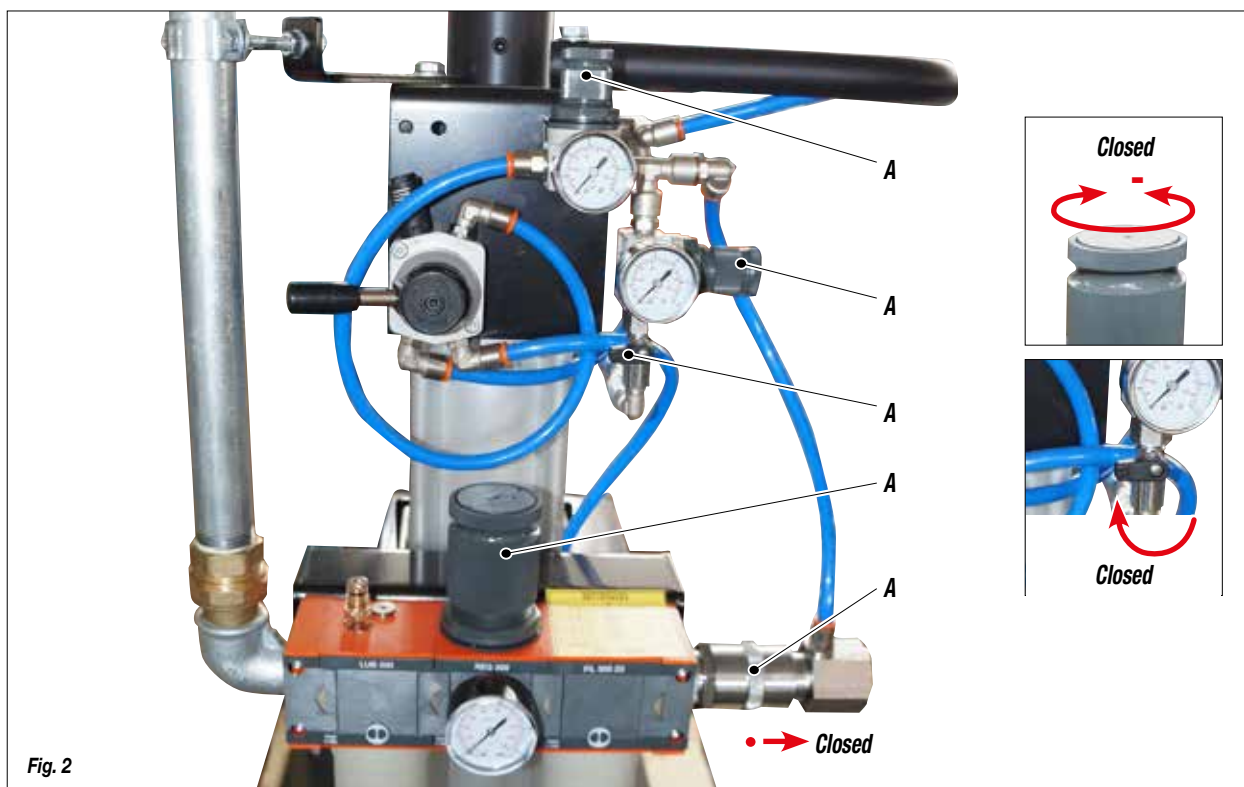
**2** Insert the dowel



**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).



- Make sure the air pressure valve (1) 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 that the control lever (2) is in the intermediate position (**Stop**).

## 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.

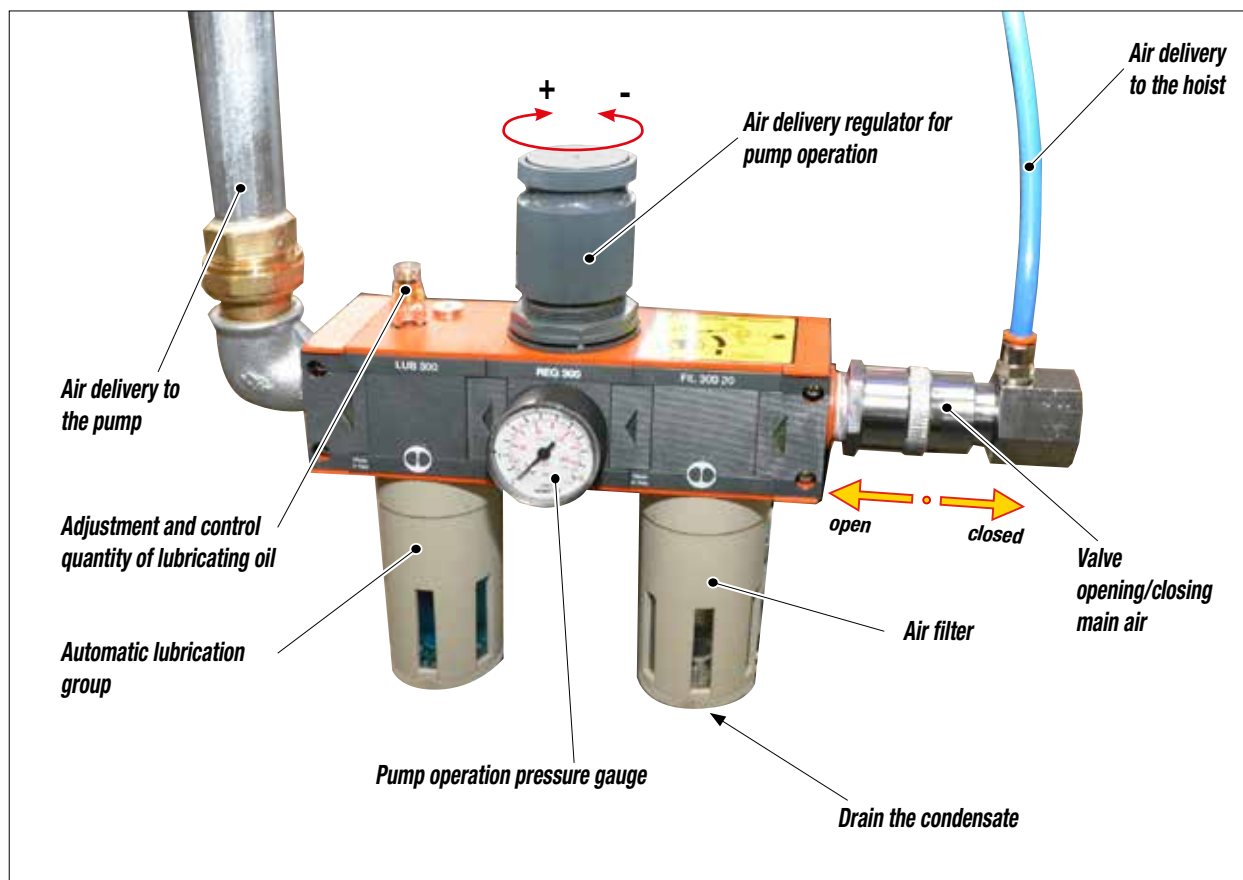


Fig. 1

## K PRINCIPLE OF OPERATION

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

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

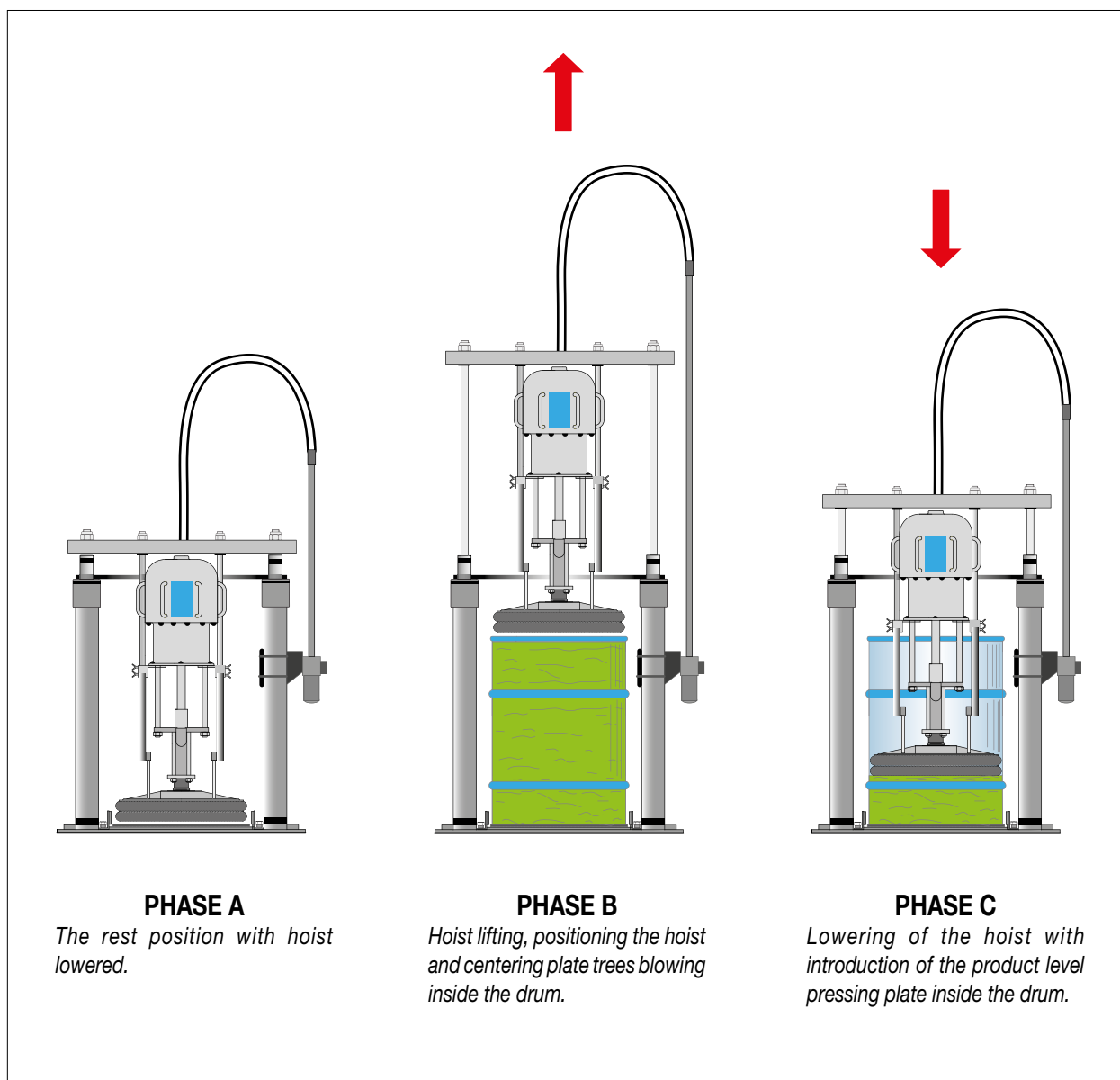


Fig. 1

## L DESCRIPTION OF THE EQUIPMENT

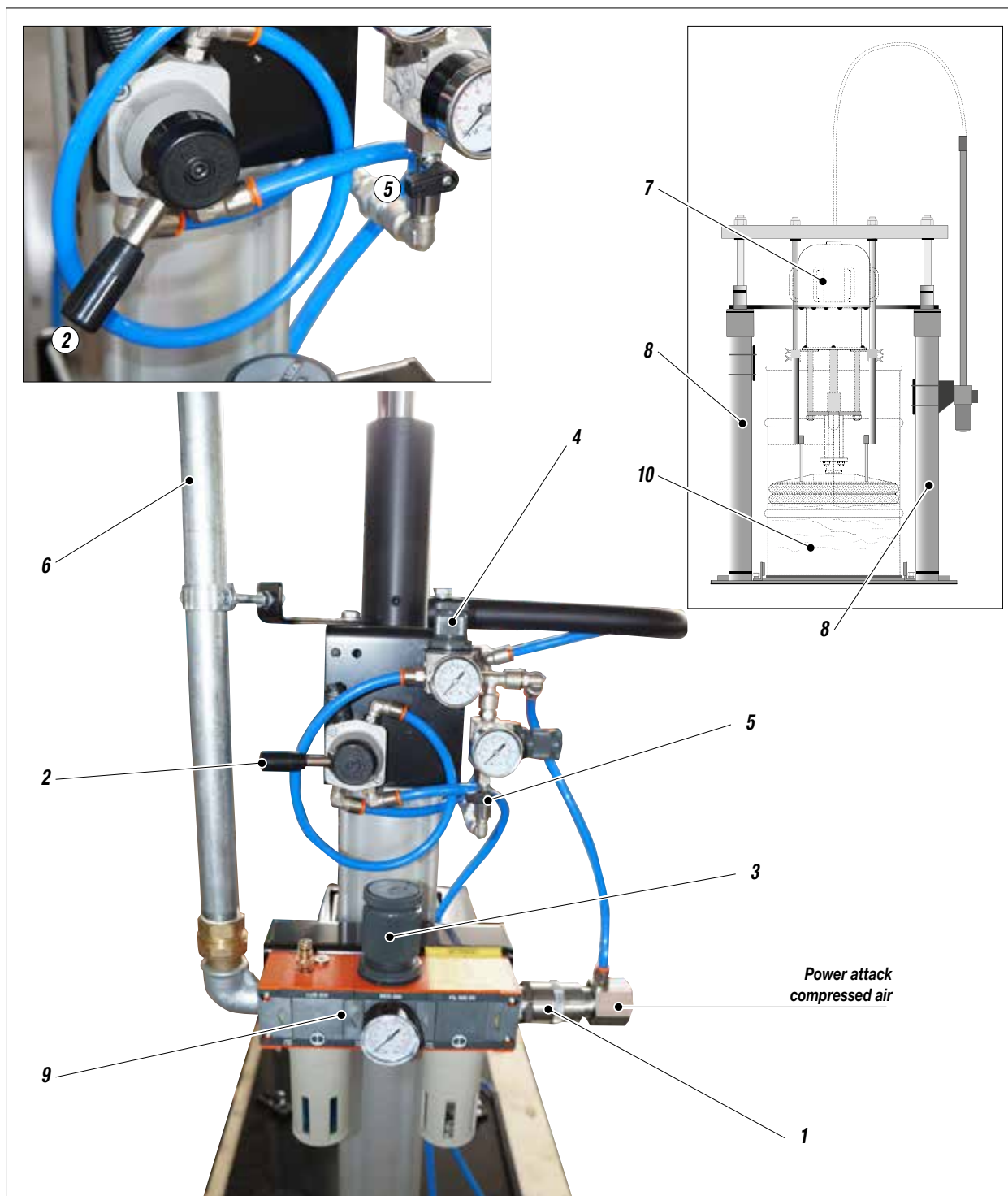


Fig. 1

Pos.	Description
1	Main pump air opening/closing valve
2	Manual valve for pneumatic extrusion ram up/down
3	Pump air regulation valve
4	Lifting cylinder pressure regulator
5	Supply air pressure plate valve

Pos.	Description
6	Delivery hose for air pump
7	Pump motor
8	Lifting cylinders
9	Air treatment group for pump
10	Product drum



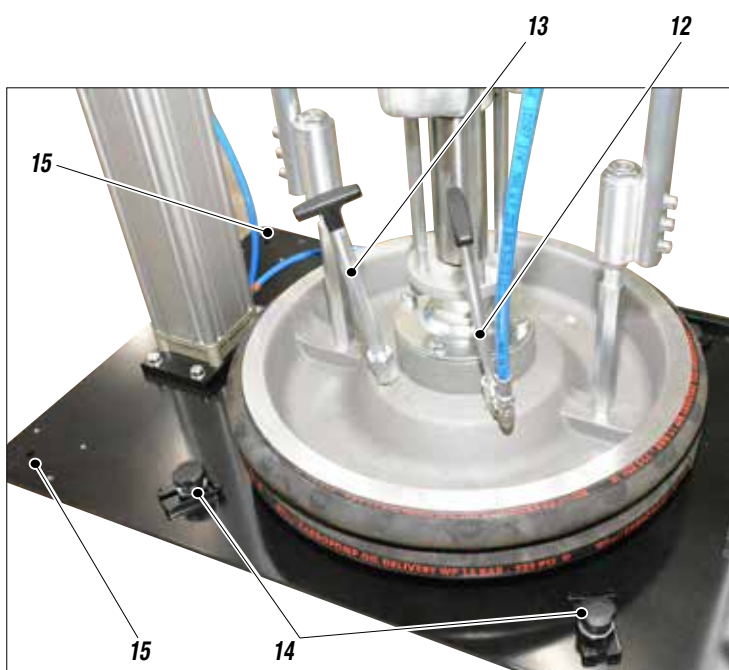


Fig. 2

Pos.	Description
4	Lifting cylinder pressure regulator
11	Air intake regulator in the drum
12	Air intake valve for extraction
13	Relief valve

Pos.	Description
14	Product drum locking terminals
15	Holes for hoist securing
16	Purge valve for pump priming
17	Pressing plate

## 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 air supply (1).

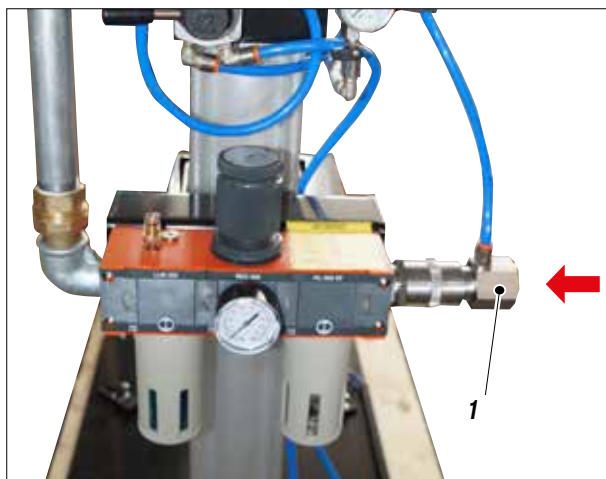


Fig. 1

- Turn the control lever (2) upward.

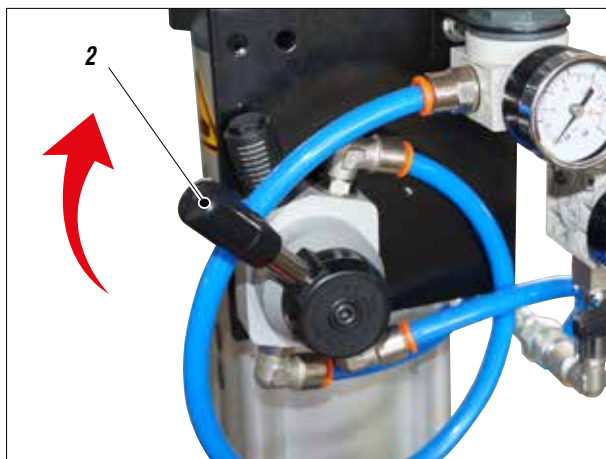


Fig. 2

- Using the regulator (3), gradually increase supply pressure to the pneumatic cylinder (4) until lifting begins. Let the hoist reach its maximum height.

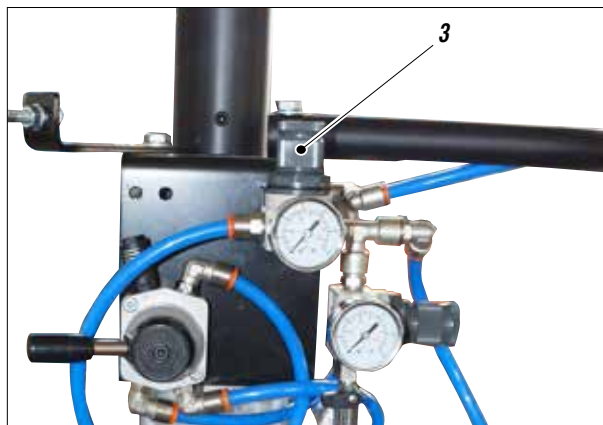


Fig. 3

- Remove the cover from the drum by 200 litres (5) to be used and place it between the clamps (6) on the plate (8).

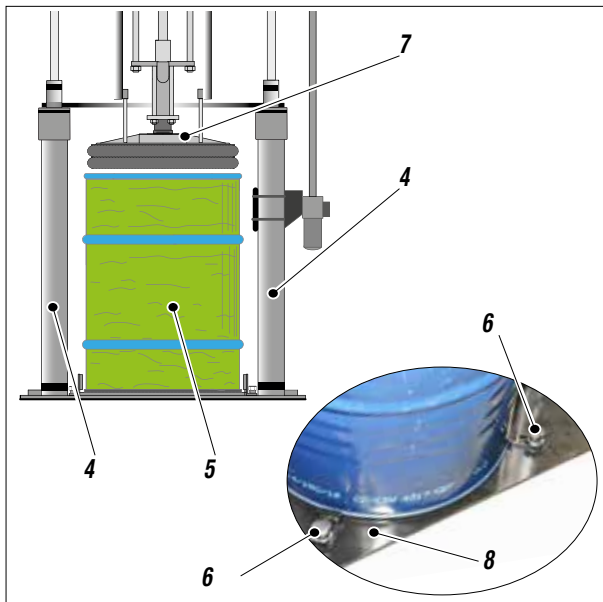


Fig. 4



Check if there are dents on the drum (5), as these could cause the pressing plate (7) to lock during descent.

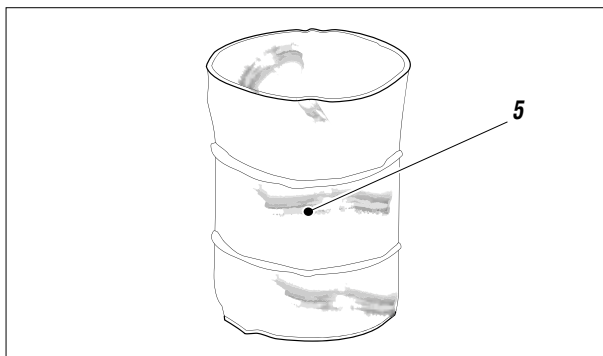


Fig. 5



- Rotate the control lever (2) downward until the pressing plate (7) arrives near the edge of the drum.

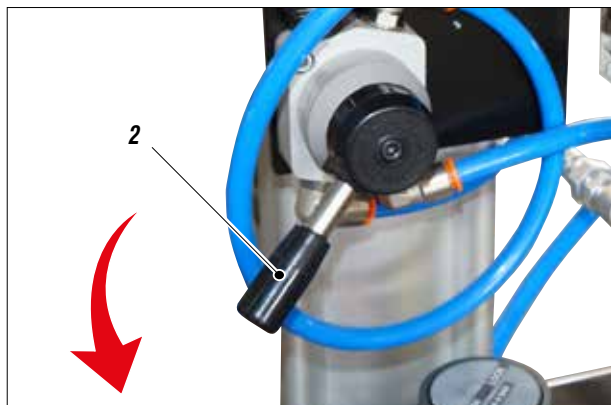


Fig. 6

- Stop the descent of the hoist by turning the control lever (2) to the intermediate position.

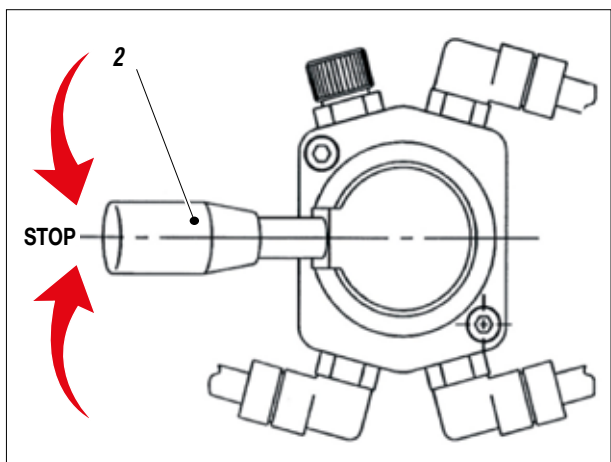


Fig. 7

- Center the drum (5) correctly on the plate (8) so that it is aligned with the pressing plate (7).
- Lock the clamps (6) to secure the drum (5).

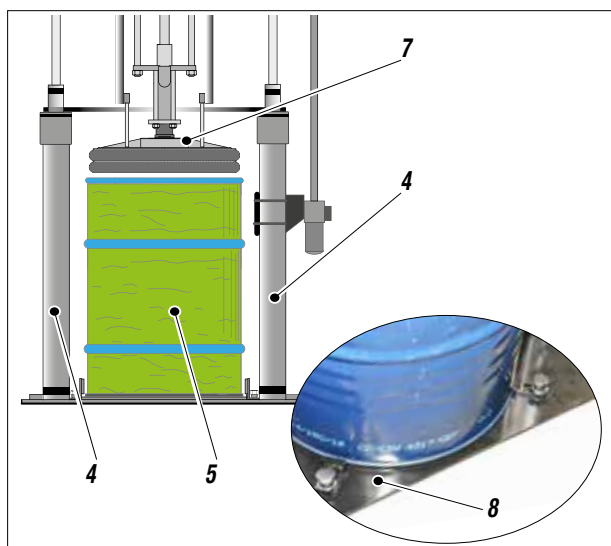


Fig. 8

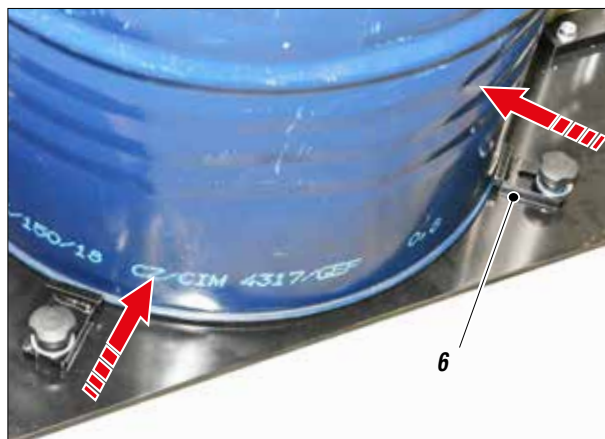


Fig. 9

- Grease the pressing plate gasket (7) and the internal surface of the drum.



Fig. 10

- Close the relief valve (9) located on the pressing plate (7).

**NOTE**

*The rod (9) of the vent valve must not be completely unscrewed.*

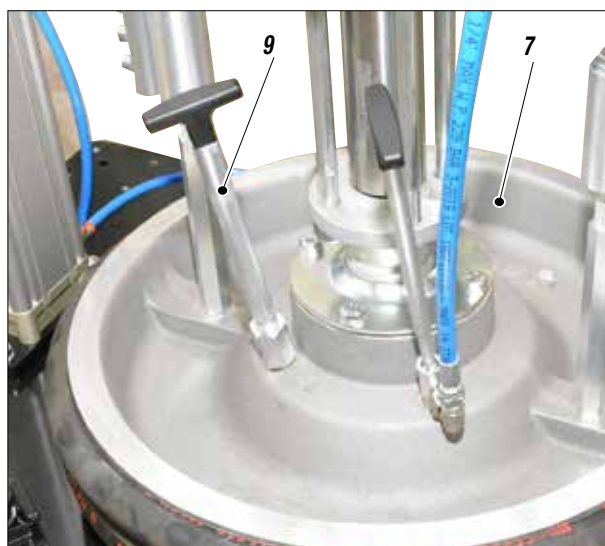


Fig. 11

- Lower the pressing plate (7) by turning the control lever (2) downwards until the plate enters the drum and positions itself on the product.

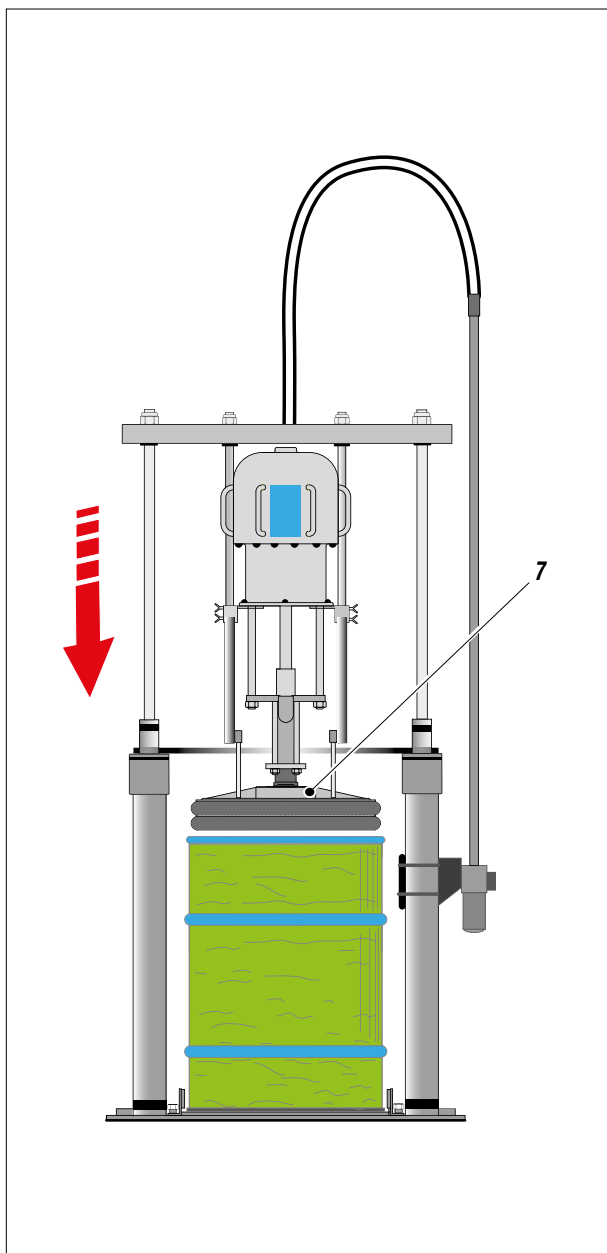


Fig. 12

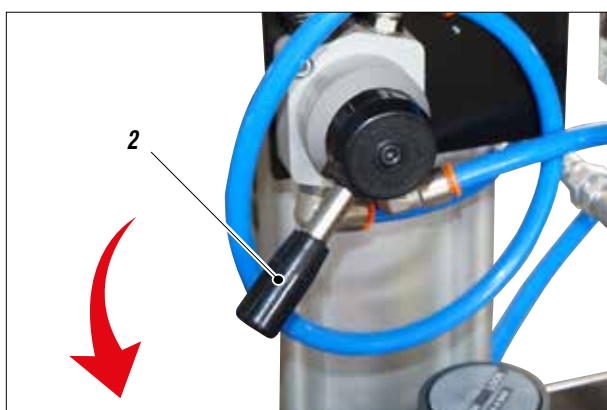


Fig. 13



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

- Close the vent valve (9) when the product starts to come out in the absence of air bubbles.



Fig. 14

**NOTE**

*If the pressing plate inclines when inserting the drum, rotate the control lever up. 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.**

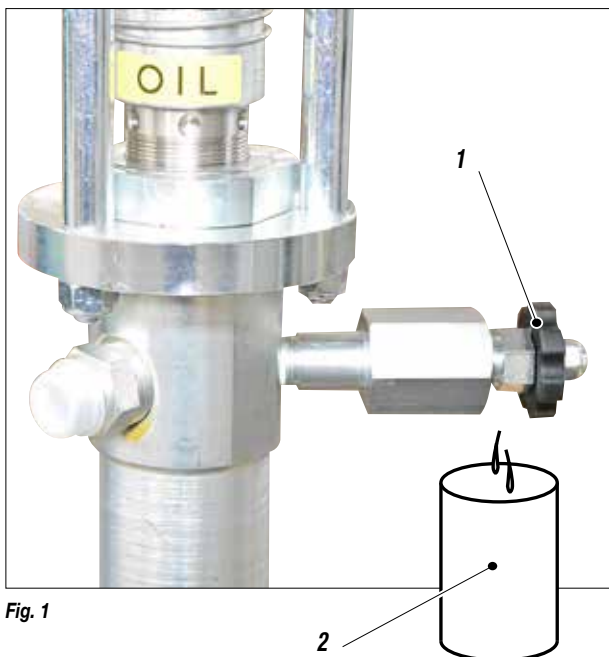


**KEEP IN MIND THAT THE EXTRUSION RAM IS ALWAYS HAND PUSH. ONCE THE GASKET HAS ENTERED INTO THE DRUM, THE PRESSING PLATE-PUMP LOCK MAY MOVE SUDDENLY TO REACH THE SURFACE OF THE PRODUCT. BE CAREFUL OF HANDS AND KEEP HEAD AWAY FROM MOVING MACHINE PARTS.**

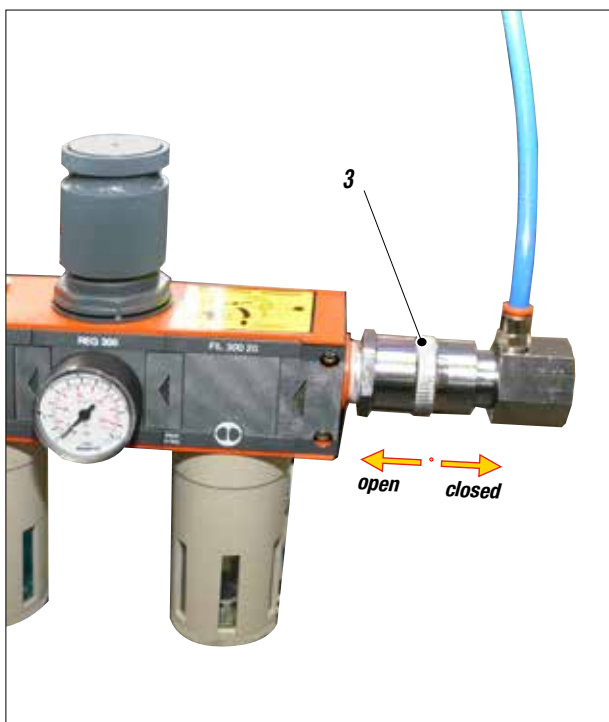
- The hoist is now ready for operation. It may be necessary to act on the hoist thrust air regulator to increase the pressure of the hoist.

## N PUMP PRIMING PROCEDURE

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



- 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.

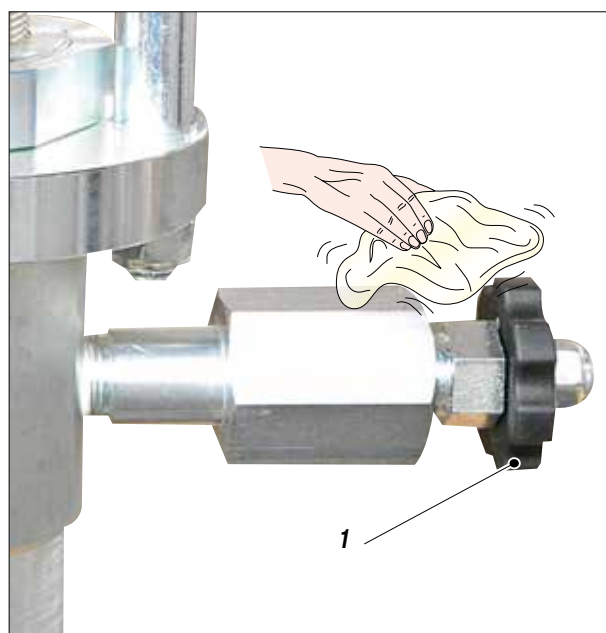


- Acting on the knob (N4) of the air regulator, increase the pump supply pressure up to the minimum value necessary for its operation.



Fig. 3

- 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.



## O OPERATION

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

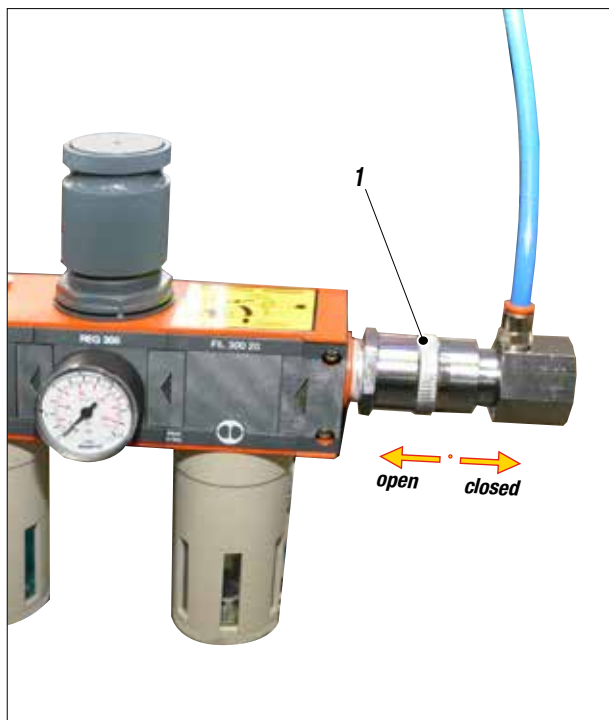


Fig. 1

- 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. 30

### NOTE

*When using the hoist, the control lever (05) must usually be left in the lowered position.*

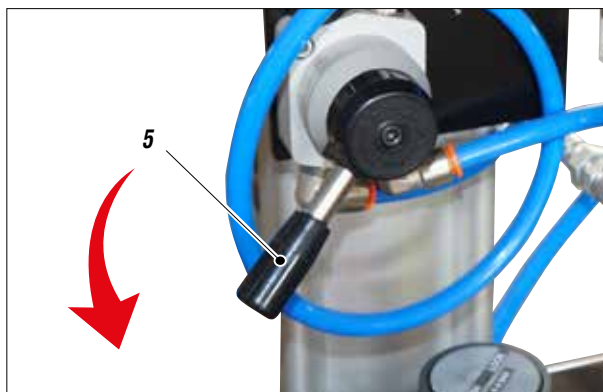


Fig. 4



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:

- Move the control lever (1) to the "Stop" position.

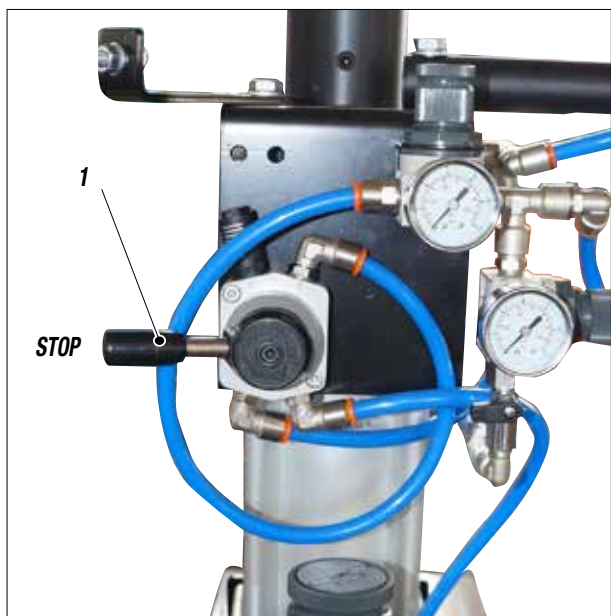


Fig. 1

- Make sure that the regulators (2) and (3) are at 0 bar.
- Open the air intake tap (4) in the drum.

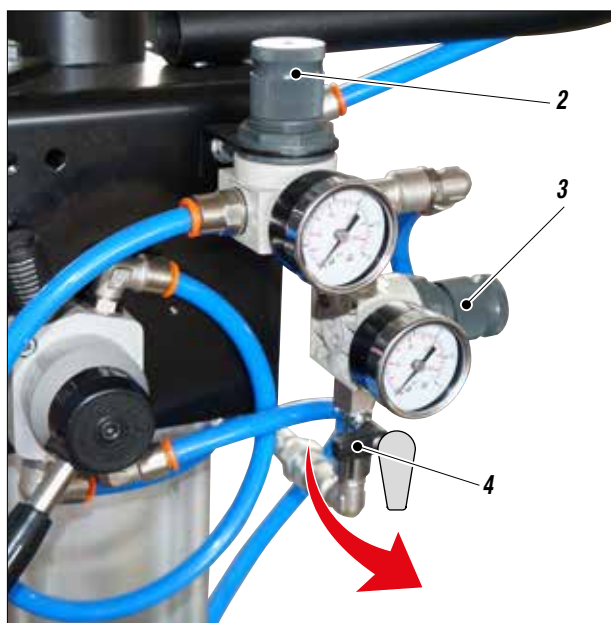


Fig. 2

- Open the air inlet valve (5) in the drum.



Fig. 3

- Move the control lever (1) upwards.

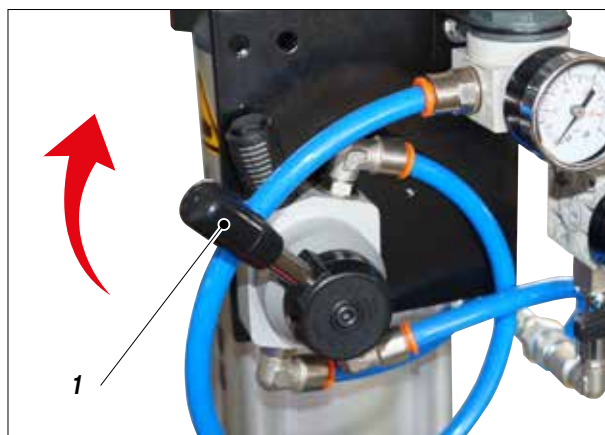


Fig. 4

- Gradually increase air pressure on the regulators (2) and (3) up to about 1 bar to raise the hoist.
- 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.

### **NOTE**

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

## Q 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.

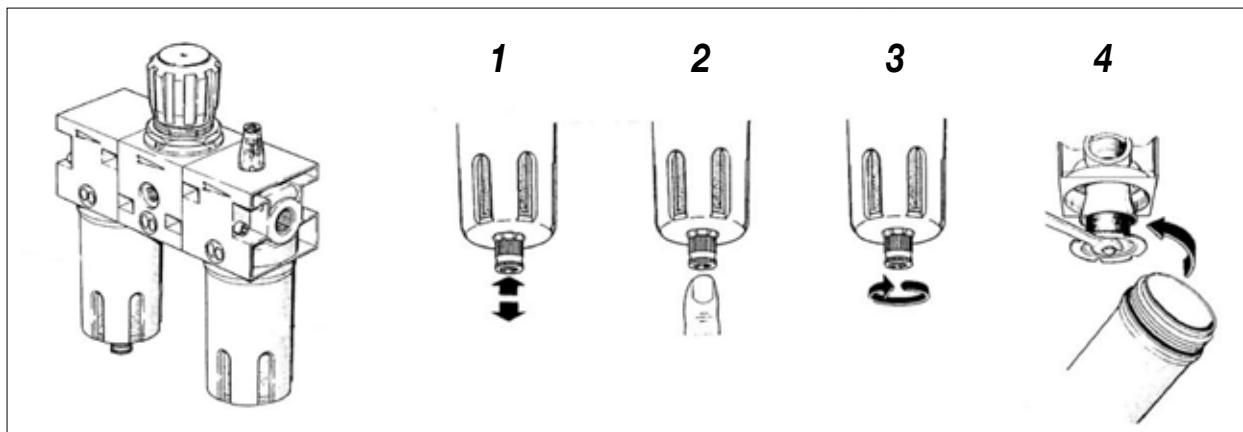


Fig. 1

- 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.

### LUBRICATOR

- 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

## R PROBLEMS AND REMEDIES

Problem	Cause	Solutions
The hoist does not lift	Hoist supply air is too low.	Increase air pressure supply of the hoist.
	The two-way valve knob is not rotated upward.	Turn the knob upwards.
	The pressing plate is locked in the trunk.	Gradually open the valve for air venting in order to promote the release of the pressure plate from the stem.
Leaking material from the edges from the stem	Flat seals blowing worn.	Replace the gaskets.
	The two-way valve knob is turned down and the connecting air supply of the hoist is excessive.	Turn the knob in the middle position or reduce air pressure.



Always close the compressed air supply and release the pressure in the system before any type of control or replacement of pump parts or hoist.

## S AUTO PARTS AUCTION

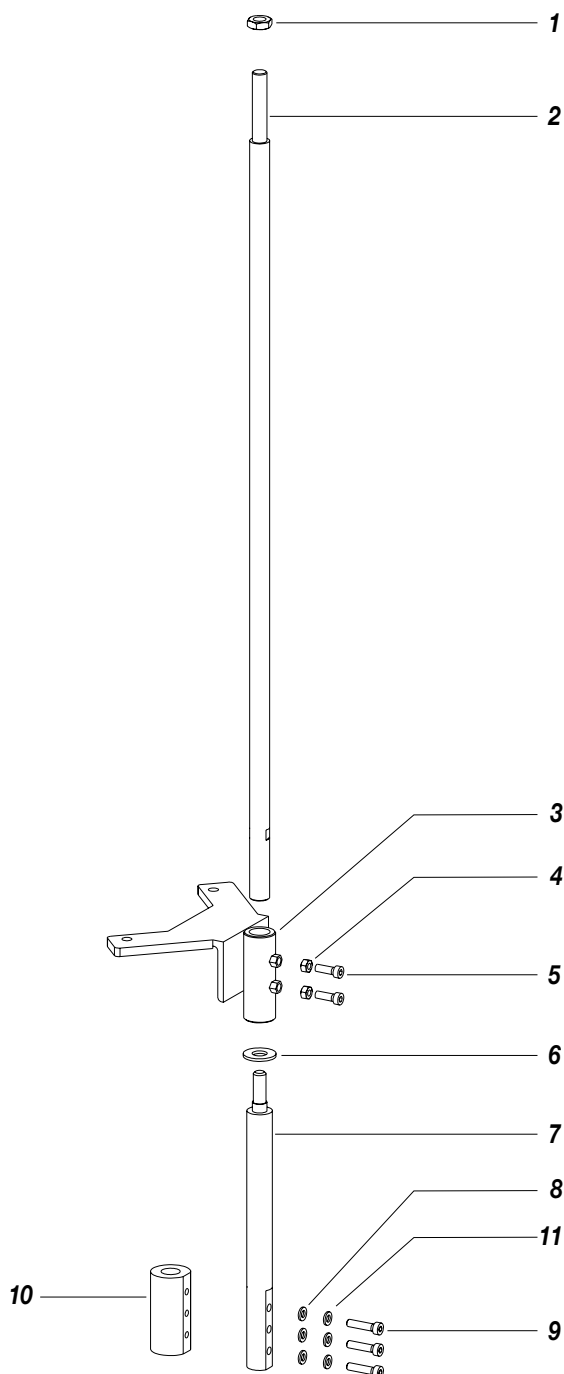


Fig. 1

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



## T UPPER STRUCTURE PARTS

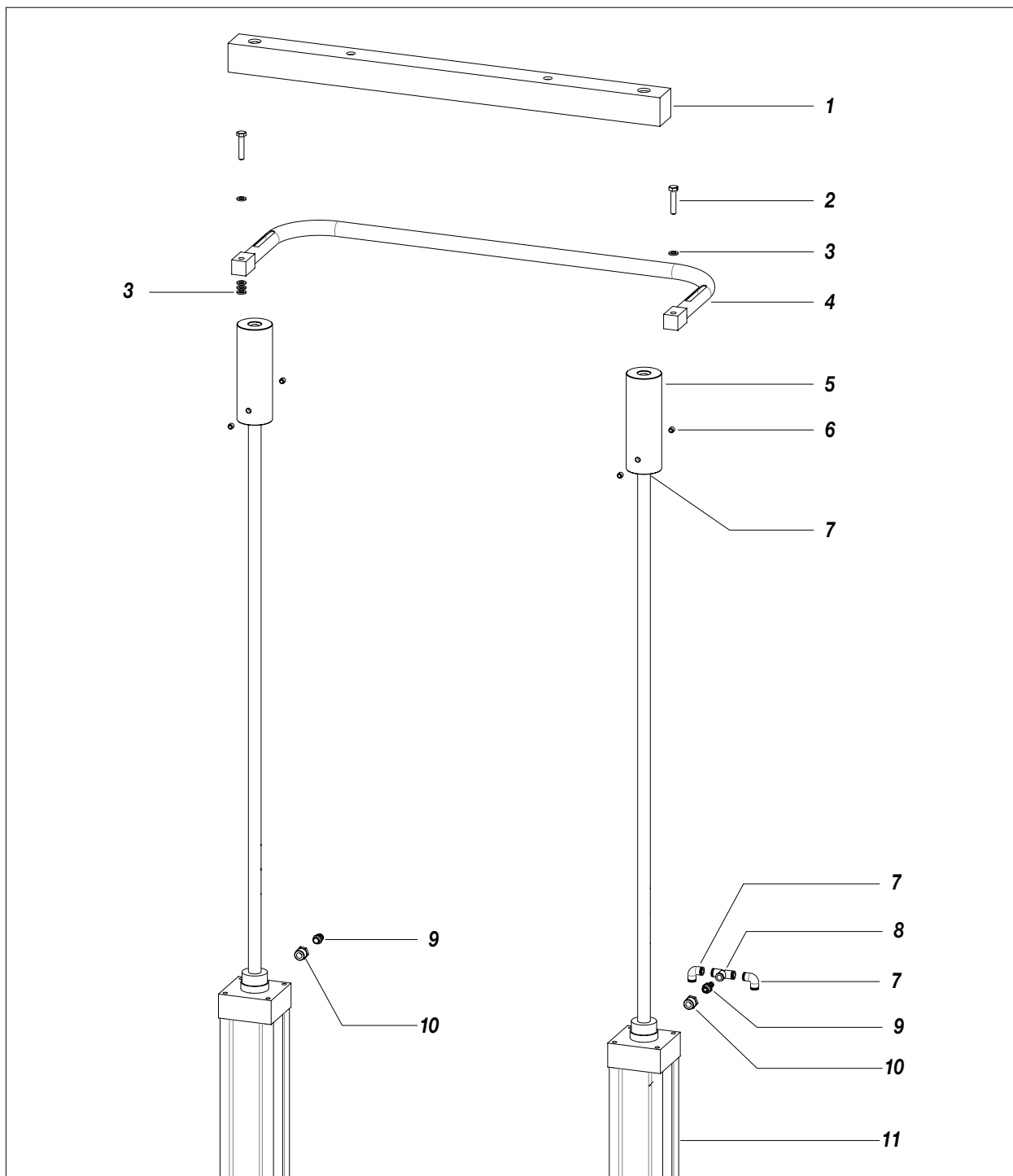


Fig. 1

Pos.	Code	Description
1	510018	Cross
2	4738	Screw
3	81033	Washer
4	510086	Rear bar
5	96124	Bushing
6	510079	Wheel

Pos.	Code	Description
7	5359	Attack 90°
8	510049	"T" attack
9	5546	attack 1/4 "d = 10 mm
10	5356	Reduction M-F
11	510104	Pneumatic cylinder

## U SPARE BASE STRUCTURE PARTS

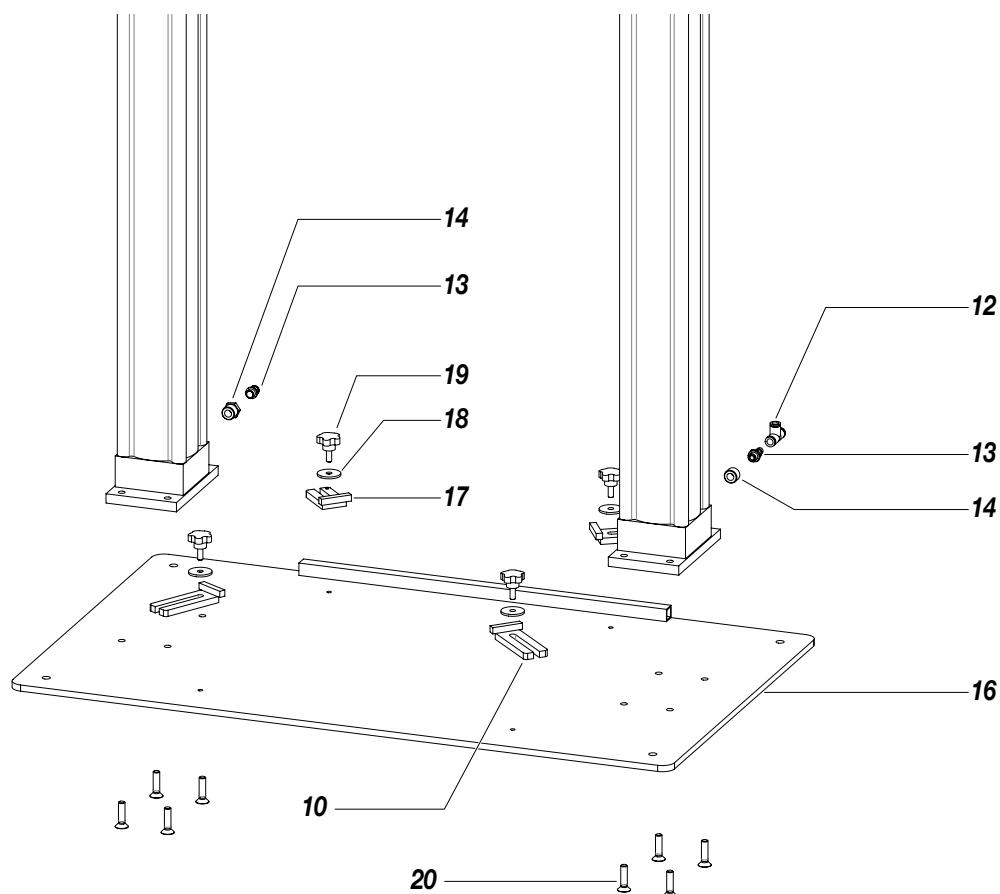


Fig. 1

Pos.	Code	Description
10	510035	Clamp long
12	510049	"T" quick coupler
13	5549	Fitting 1/4 "D = 10 mm
14	5356	1/2 M reduction "-F/4"
16	510087	Bed hoist

Pos.	Code	Description
17	510036	Short Terminal
18	95153	Washer
19	510037	Knob
20	510003	Screw

## V SPARE AIR GROUP

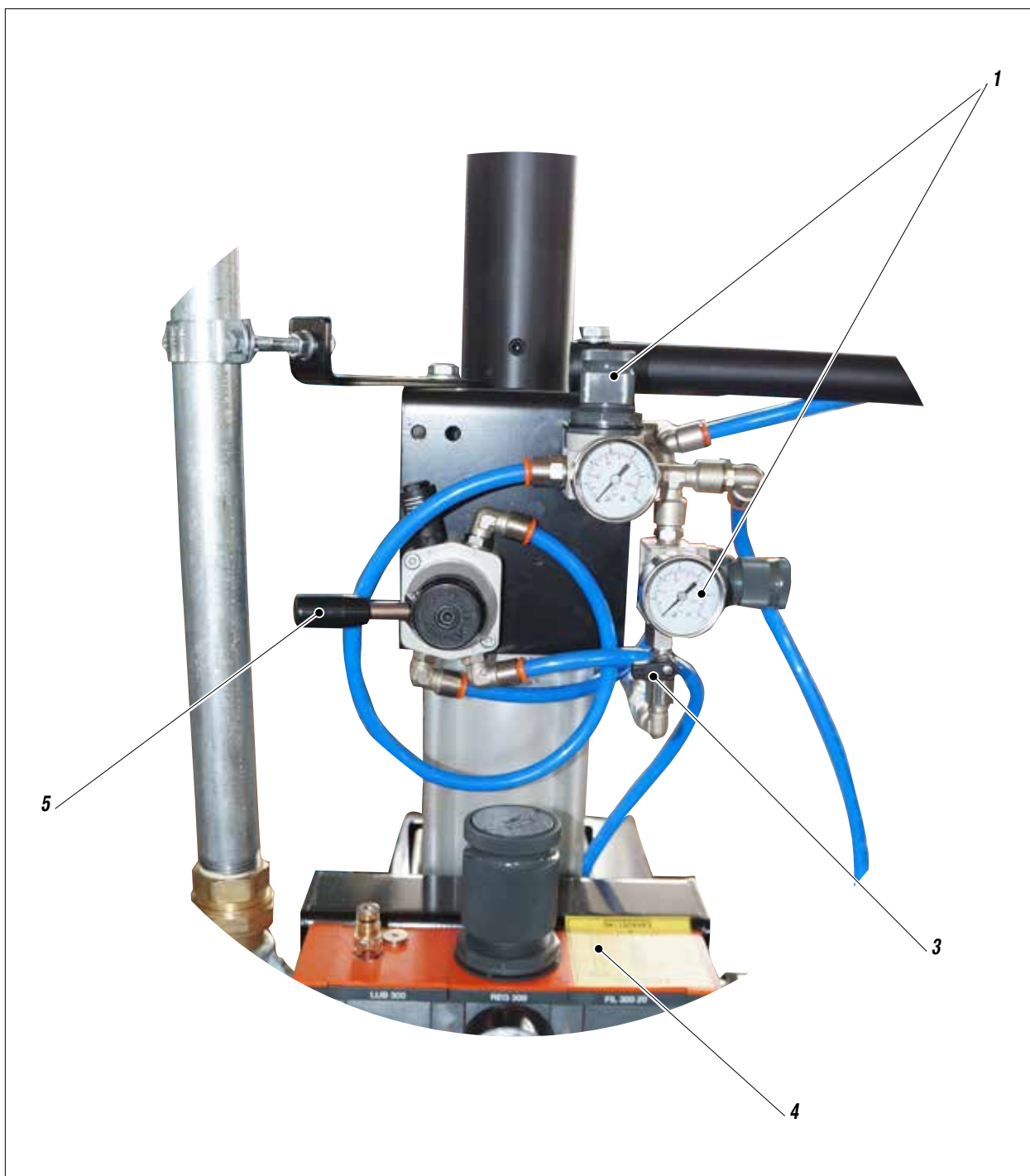


Fig. 1

Pos.	Code	Description
1	3345	Regulator
3	4004	Manual valve

Pos.	Code	Description
4	95350+96259	FRL air treatment group
5	30532	Double action valve

## W FLAT DISC PRESSING

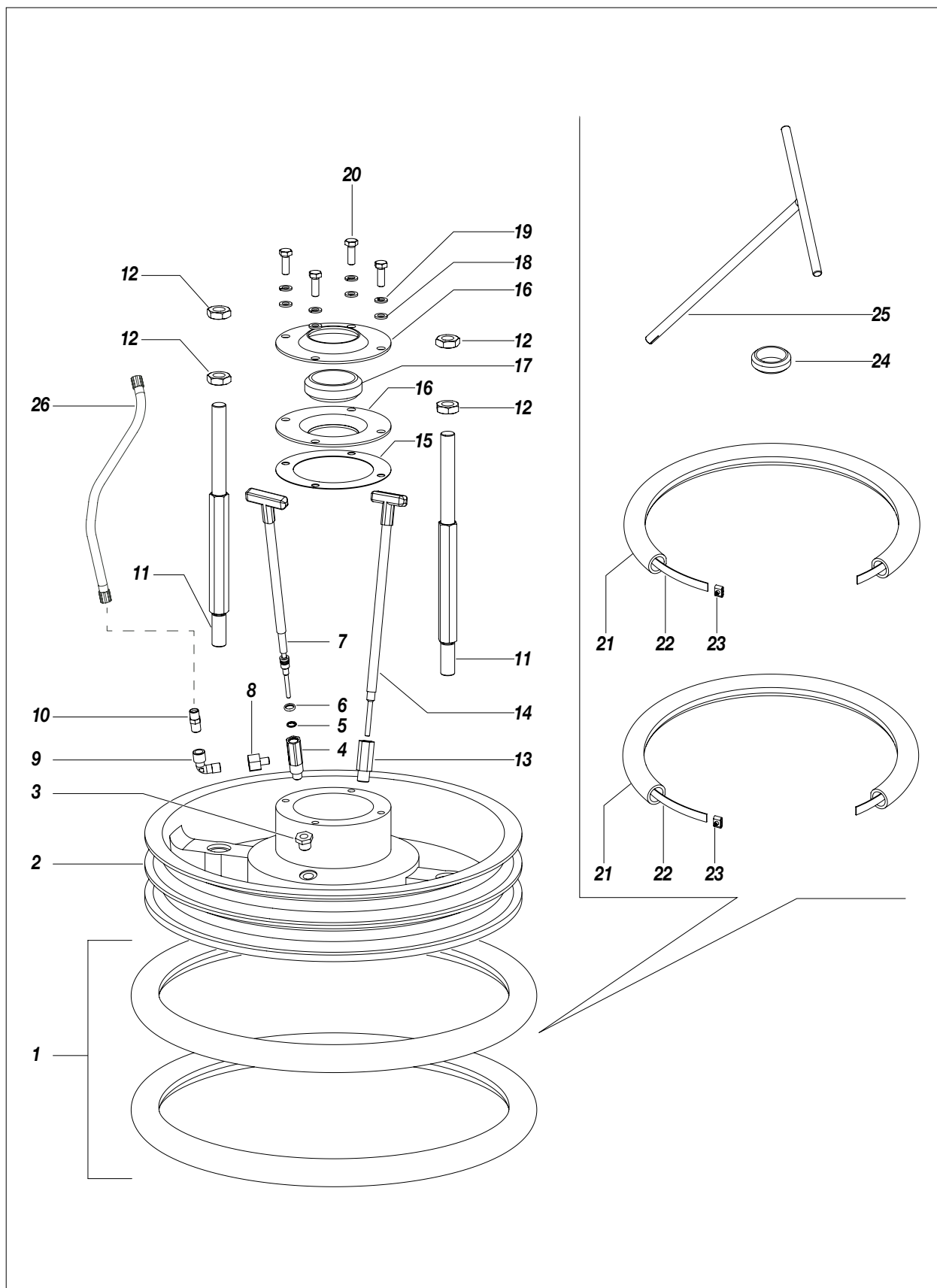


Fig. 1

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

## X FRL AIR TREATMENT GROUP WITH GAUGE

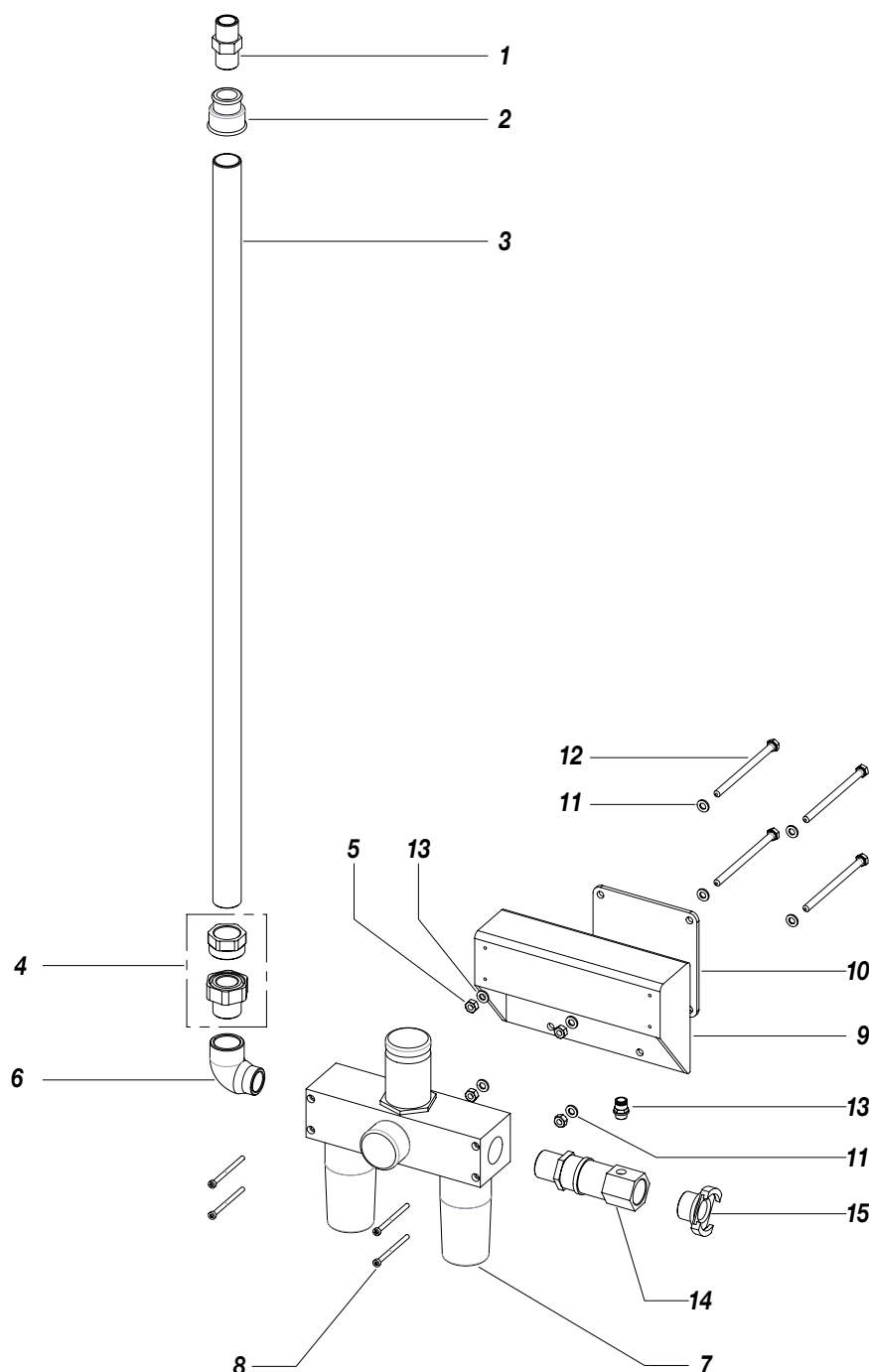


Fig. 1

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
8	95325	Screw M5X70 TCE

Pos.	Code	Description
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

## Y PNEUMATIC DIAGRAM

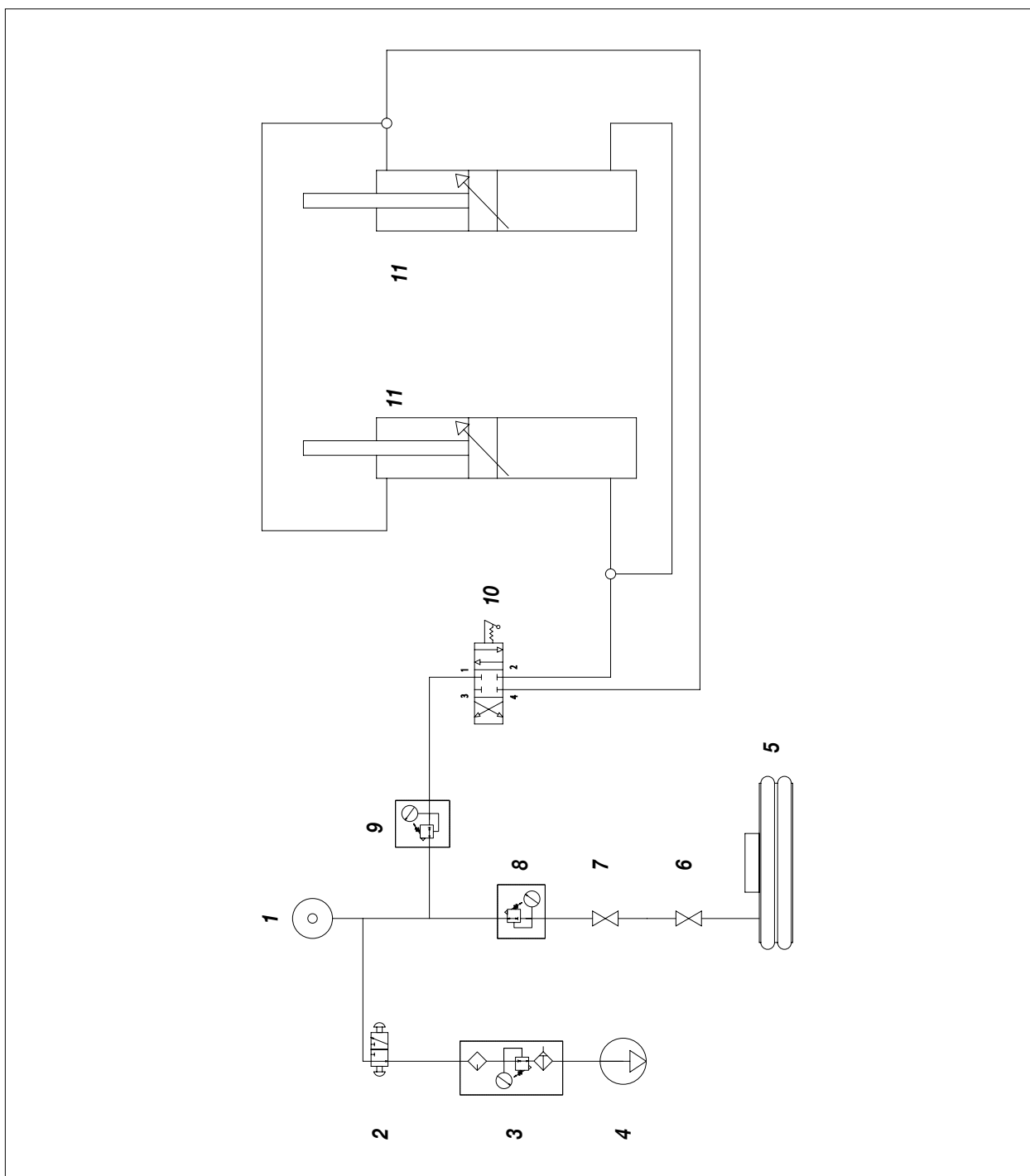


Fig. 1

Pos.	Description
1	Air supply
2	Pump supply valve
3	FRL group pump power
4	Pump
5	Plate pressing
6	Air inlet valve in the stem

Pos.	Description
7	Air valve pressing plate
8	Intake air regulator pressure plate
9	Hoist air regulator
10	Lifting / lowering lever hoist
11	Hoist cylinders

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**DECLARATION OF CONFORMITY****Company**

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Declares under his owns responsibility that the product:

**PNEUMATIC HOIST**  
**twin mast for 200 litres drums lever control**

complies with the directives:

- EC Directive 2006/42 Machinery Directive

furthermore to the  
harmonized standards:

- UNI EN ISO 12100-1/-2  
Machinery safety, basic concepts, general principles of design. Basic terminology, methodology. Technical principles.

This declaration relates exclusively 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.

Calolziocorte, 10 June 2024  
Location / Date

Signature



**Pierangelo Castagna**  
Managing Director

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