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PNEUMATIC HOIST

Single column
for 30 litres drums

Code: 510600



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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 program, the factory reserves the right to modify technical details mentioned in this manual without prior notice.

SINGLE MAST HOIST 30 LT

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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.
	<p>FIRE AND EXPLOSION HAZARD</p> <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. • Keep away from moving parts. • 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. • (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 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.

C 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.

D 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.

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.



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.



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.

E WORKING PRINCIPLE

This type of pneumatic lifting ram allows to lift transfer and extrusion pumps of **GHIBLI** AND **VEGA** series.

The use of ram (1) enables to drive the sucking unit of the pump (2) during the product intake phase directly into 30 litres drums (3).

At the base of the pump (2) sucking unit shovel plate (4) is mounted to compress the material assuring a constant flow during use.

The shovel plate (4) is supplied with a series of gaskets able to protect the product contained in the drum (3) from powder, moisture

and drying process caused by the touch with air.

The ram (1) can automatically compensate the shovel plate (4) descent during the use of the product.

The system allows a quick replacement of the drum when the product is finished.

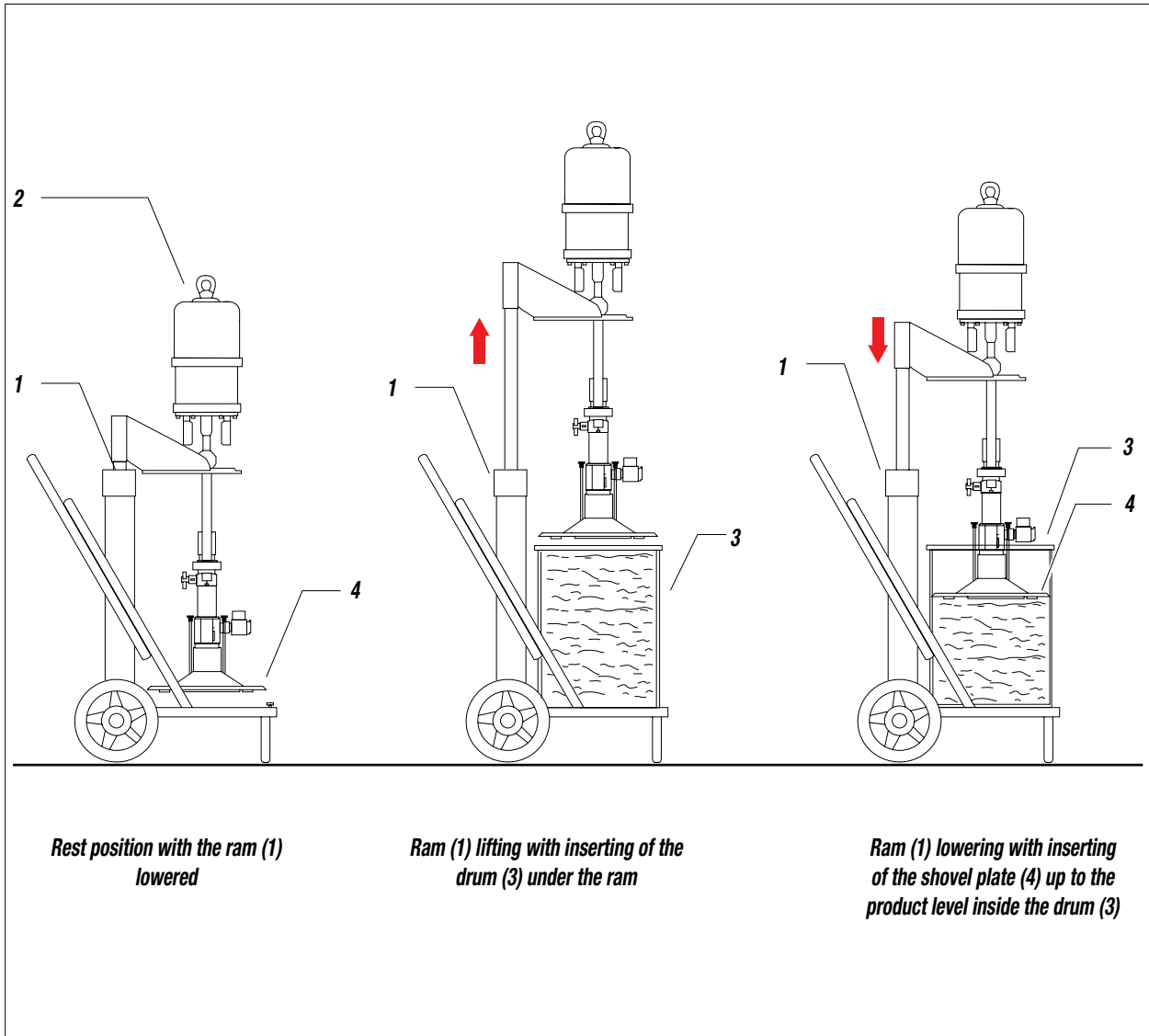


Fig. 1E

F TECHNICAL DATA

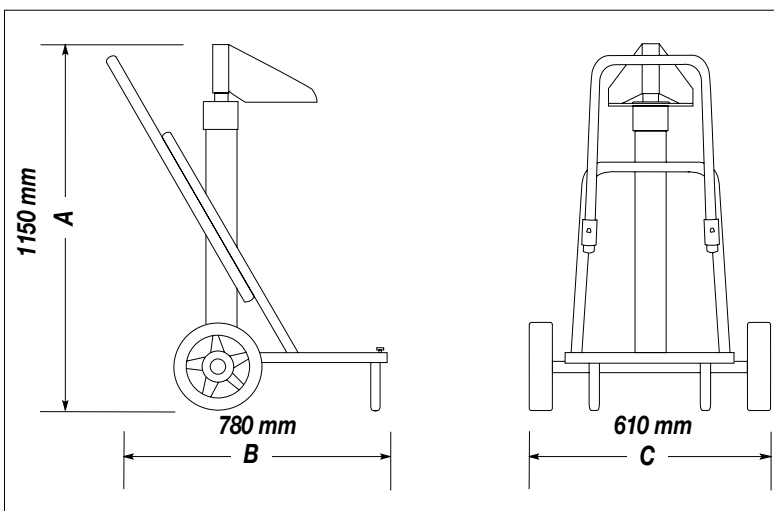


Fig. 1F

SINGLE RAM HOIST 30 LT

Air supply pressure	7 Bar (100 PSI)
Air supply inlet	3/8" BSPP
Weight	45 Kg
Height (A)	1.150 mm
Width (B)	780 mm
Length (C)	610 mm

G DESCRIPTION OF THE EQUIPMENT



Fig. 1G

Pos.	Description
1	Trolley handle
2	Screw for trolley handle fastening
3	Pneumatic cylinder
4	Wheel
5	Pump fastening support

Pos.	Description
6	Pneumatic cylinder air inlet hose
7	Ram plate
8	Ram lowering / lifting command
9	Clamps

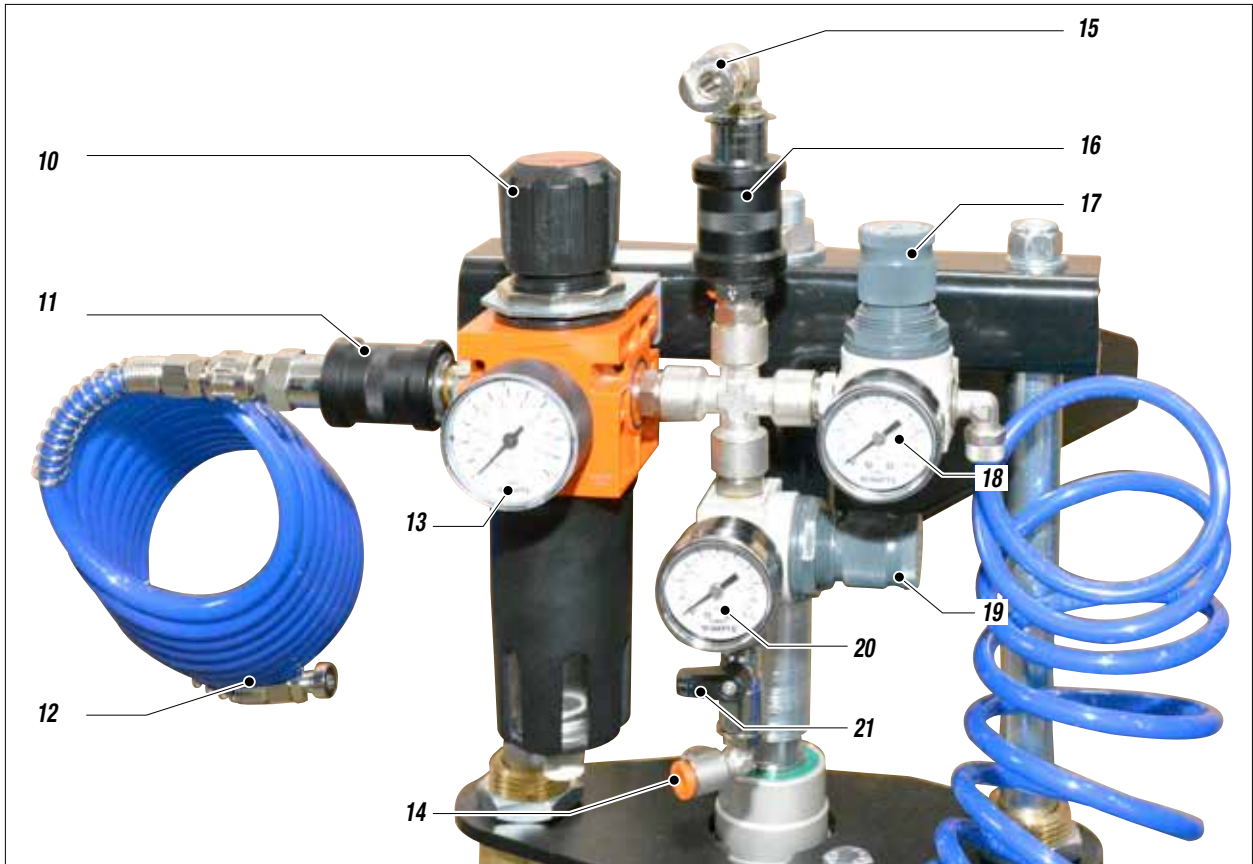


Fig. 2G



Pos.	Description
10	Pump supply air regulator
11	Slide valve for air pump delivery
12	Air hose to the pump
13	Air supply gauge to the pump
14	Shovel plate air delivery connection
15	Inlet of equipment air supply
16	Air hose to the pneumatic cylinder
17	Pneumatic cylinder feeding air regulator
18	Air gauge to the pneumatic cylinder
19	Shovel plate air regulator
20	Shovel plate air gauge
21	Air inlet valve in the drum

H SETTING UP

The operator will have to arrange an environment suitable to the plant before installing it as indicated here below:

- An area wide enough to allow the drum loading and unloading and routine maintenance operations.
- Ensure there is a sufficient space in height to enable the ram lifting and easy access to the air regulation groups.
- For the pneumatic ram feeding use a tube with an internal diameter no lower than 10 mm.



Install a condensate filter and shut-off valve type ON-OFF on the air supply line to the ram.

- Make sure the air governors to the pump (H1) and ram (H2) are closed (*turn counterclockwise the control knob to close them*).
- Make sure the air delivery pipe to the pneumatic pump (H3) is connected to the ram and to the pump.
- Make sure the air delivery pipe to the shovel plate (H4) is connected to the ram and to the shovel plate.

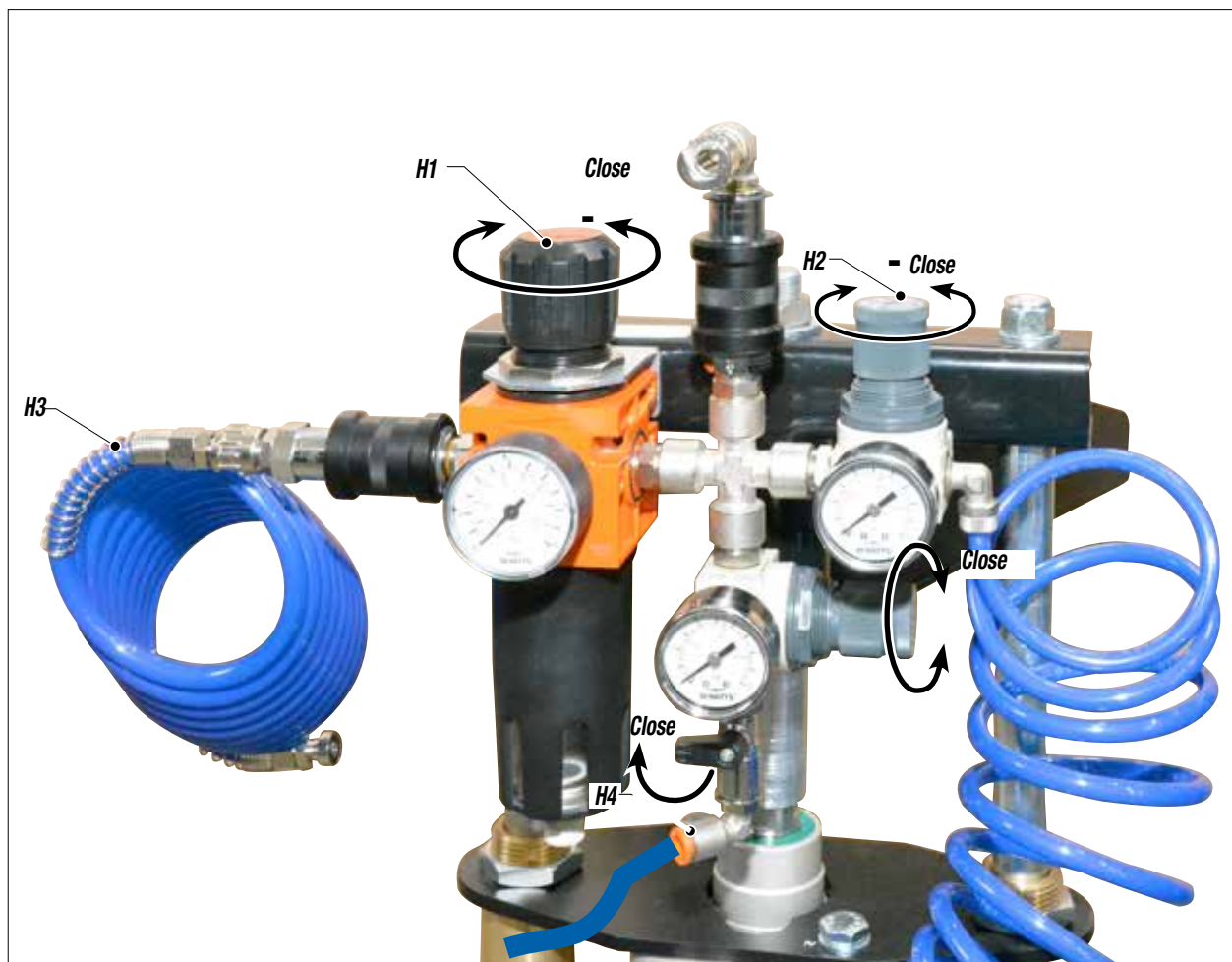


Fig. 1H

- Make sure the air delivery valve to the shovel plate (**H5**) is closed.

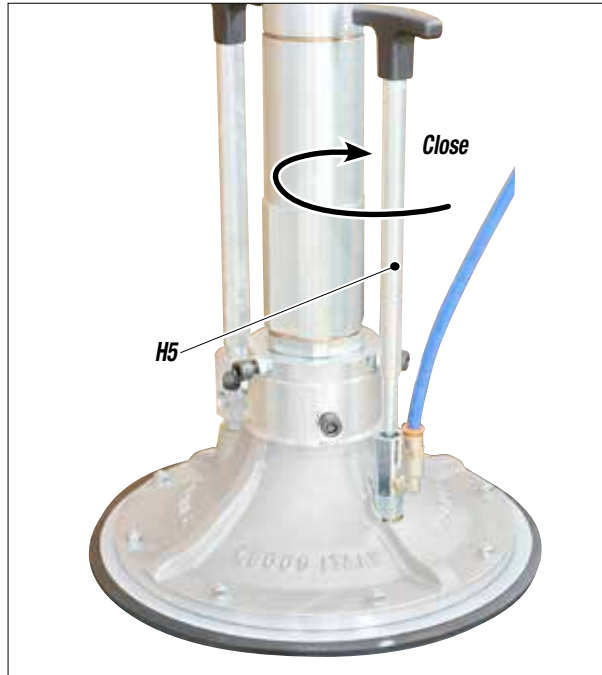


Fig. 2H

- Make sure that the control lever (**H6**) is in the intermediate position (**Stop**).

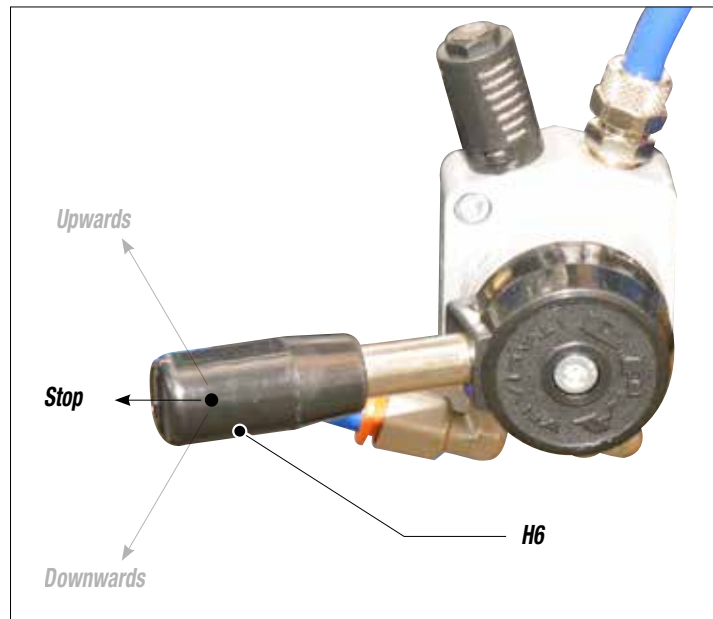


Fig. 3H

I 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.

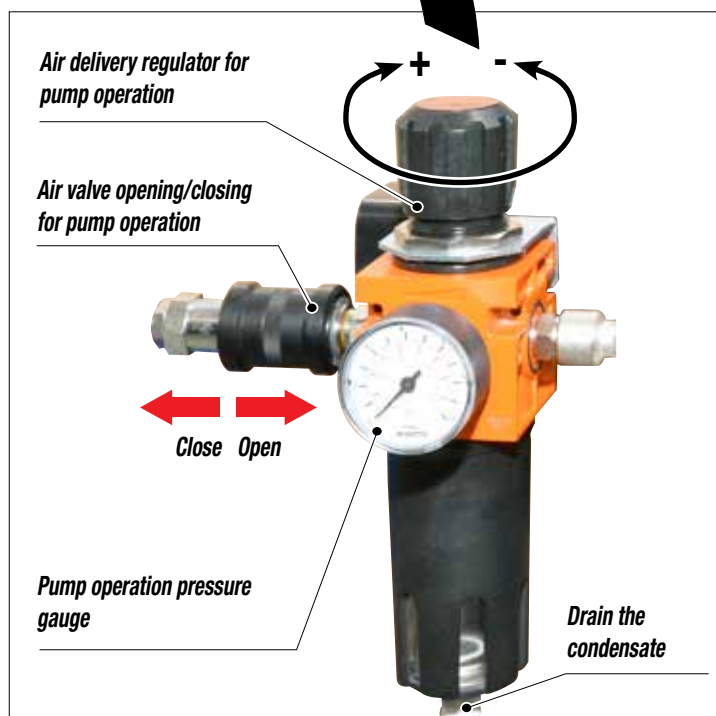
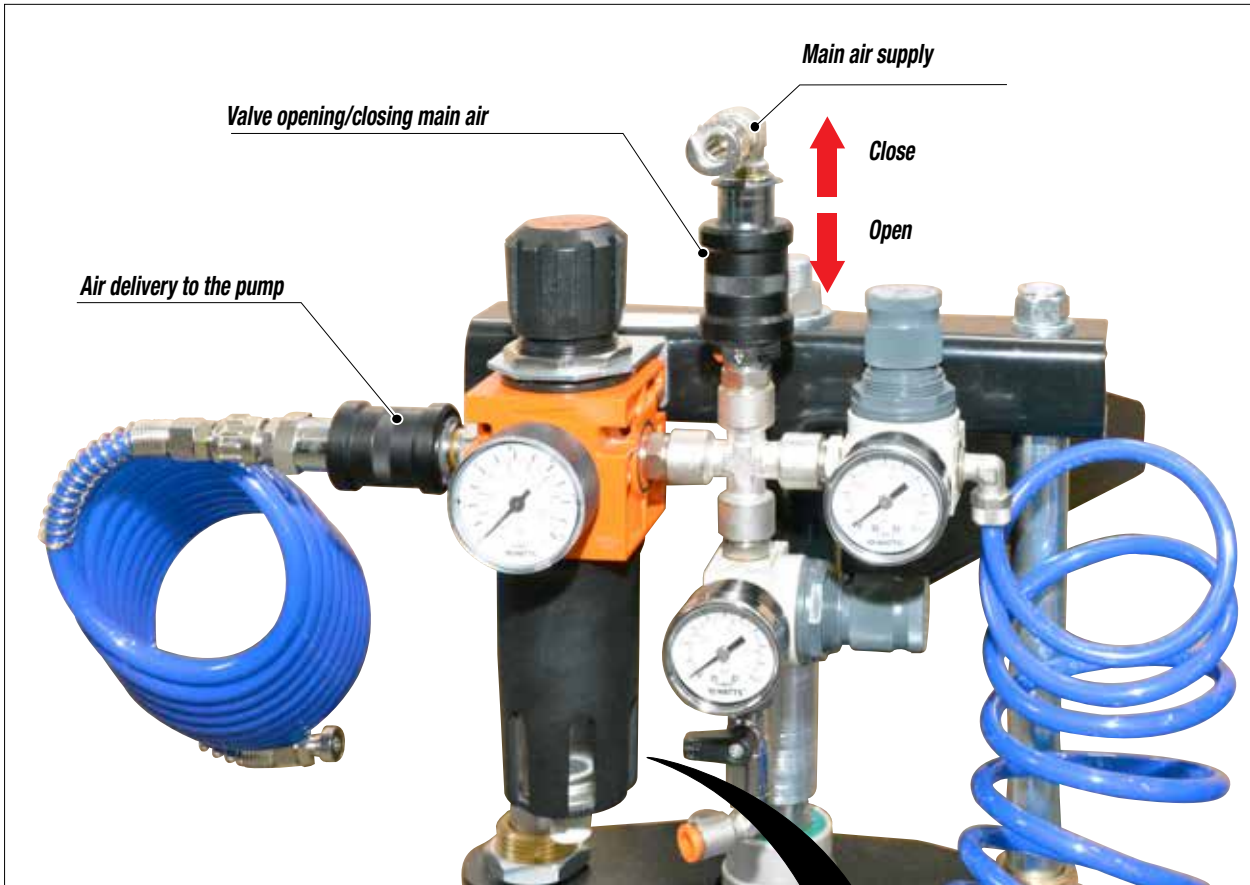


Fig. 11

J WORKING



Warning check all the fitting for the connection of the different components (*pump, flexible hose, gun, etc.*) before using the equipment. Avoid approaching too much to the ram during the ascent and descent functions.

NOTE

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

1. HOIST LIFTING

1.1 Open the air supply to the ram. (**J1**).

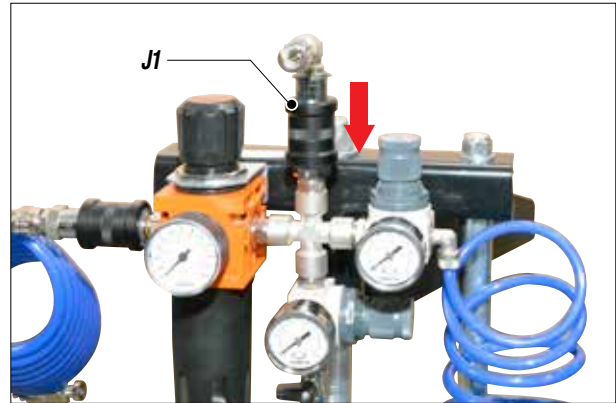


Fig. 1.1

1.2 Turn the lifting control lever (**J2**) up to raise the air cylinder.

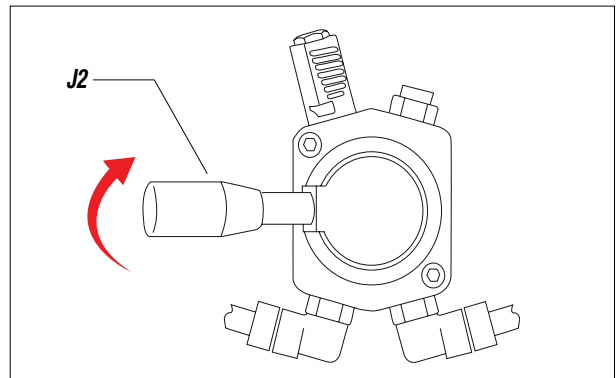


Fig. 1.2

1.3 Acting on the air governor to the hoist (**J3**), gradually increase the feeding pressure to the pneumatic cylinder till the ram (**J4**) starts lifting. Let the hoist reach its maximum height.

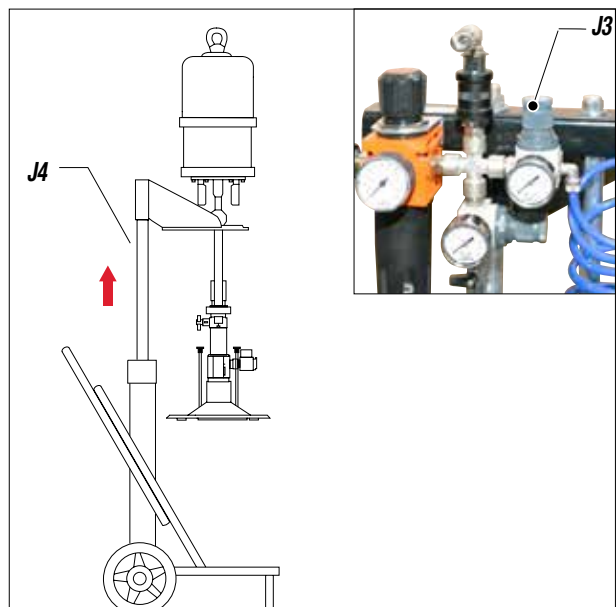


Fig. 1.3

2. INSERIMENTO DEL FUSTO SUL PARANCO

- 2.1** Remove the cover (J5) from 30 litres drum (J6) to be used and place it between the clamps on the plate (J7).



Check if there are any dents on the drum: they could block the shovel plate on the ram inside the drum.

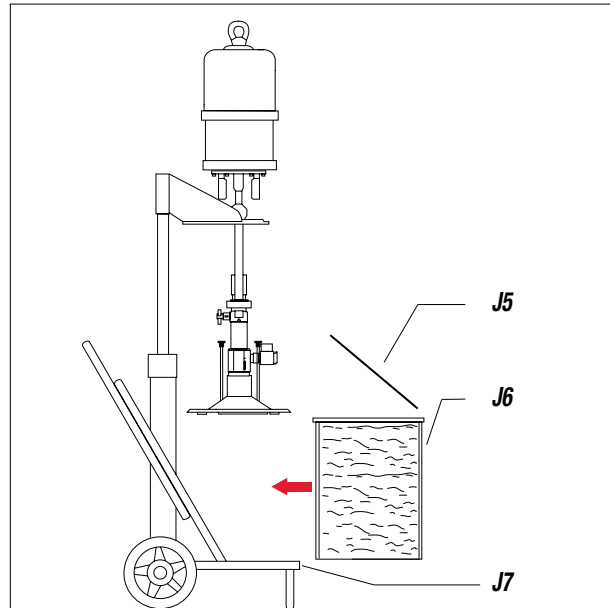


Fig. 2.1

3. INSERTION OF THE SHOVEL PLATE INTO THE DRUM

- 3.1** Rotate the control lever (J2) downward until the pressing plate (J8) arrives near the edge of the drum.

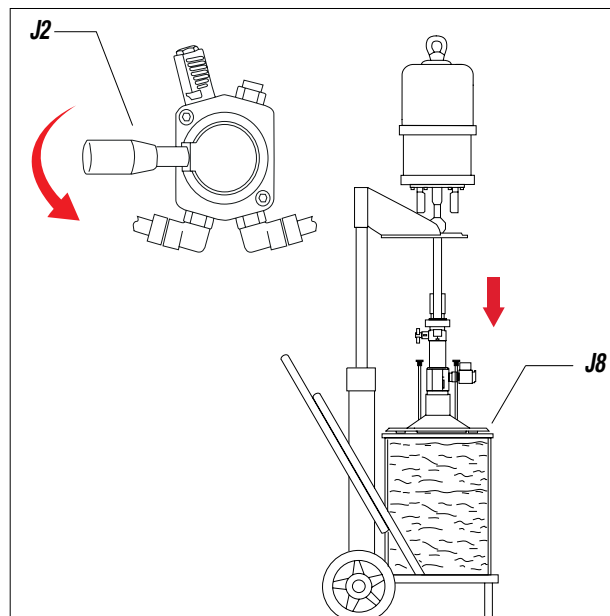


Fig. 3.1

- 3.2** Stop the descent of the ram by turning the control lever (J2) to the intermediate central position.

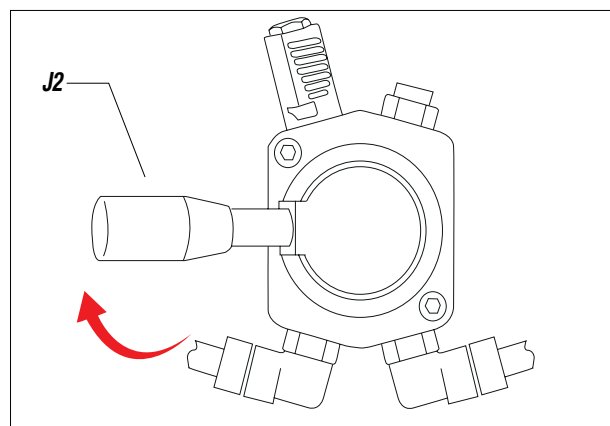


Fig. 3.2

- 3.3**
- Center the drum (J6) correctly so as it is in axis with the shovel plate.
 - Lock the clamps (J9) to secure the drum.
 - Open the bleeder valve (J10) placed on the shovel plate.

 **NOTE**

The rod (J10) of the vent valve must not be completely unscrewed.

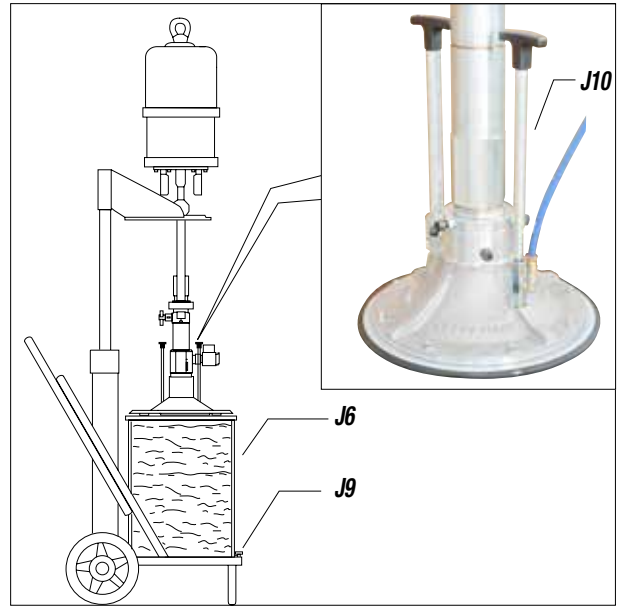


Fig. 3.3

- 3.4** Turn the control lever (J2) downwards let the shovel plate (J9) enter into the drum.

 **NOTE**

If the pressing plate inclines when inserting the drum, rotate the control lever up. Rise the pump and then repeat the operation.



Never let the pump idle for a long period: it could damage the pneumatic motor and ruin the seals.

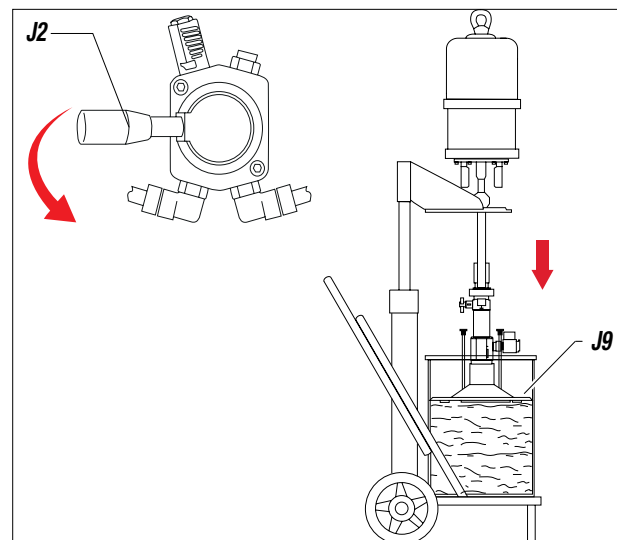


Fig. 3.4

- 3.5**
- Chiudere la valvola di sfiato (J10) del piatto premente.



Fig. 3.5

- 3.6**
- Open the air passage valve on the pneumatic pump.
 - Allowed the compressed air flow into the pump acting on the air governor to the pump (**J11**) placed on the ram. It is advised to adjust the air pressure to the minimum value necessary to a continuous working.
 - The pump will start working and then will stop when all the chamber of the product is full. The pump will start working again any time the trigger of the gun is pushed or the delivery valve is open. In case of difficult suction of the pump, slowly open the bleeder valve placed on the shovel plate and close it when some product comes out from the vent (*for any possibile working problem, follow the instructions described in section "Problems and solutions"*).

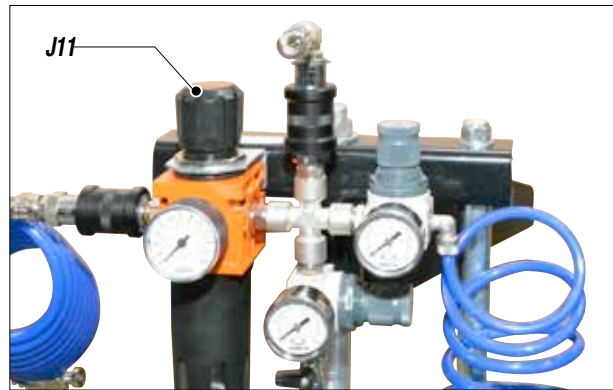


Fig. 3.6



Evitare assolutamente di far funzionare a lungo la pompa a vuoto. Questo potrebbe provocare seri danni al motore pneumatico e rovinare le guarnizioni di tenuta.

K REPLACEMENT OF THE DRUM

- 1**
- Close the air supply to the pump (**K1**) acting on the regulator and release pressure in the plant before replacing the drum.

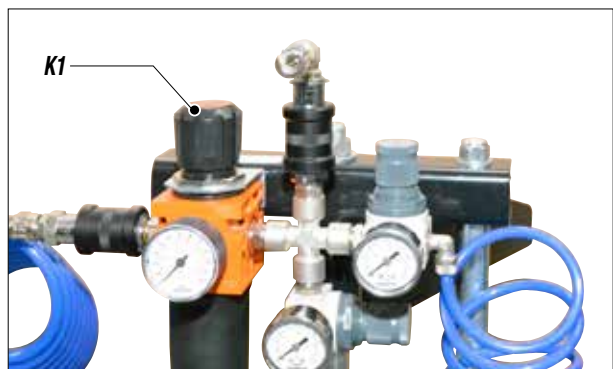


Fig. 1K

- 2**
- Turn the lifting control lever (**K2**) upwards.

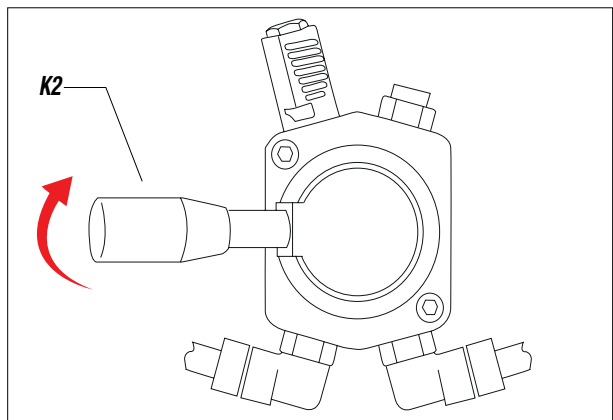


Fig. 2K

- 3**
- Gradually open the air delivery valve to the shovel plate (**K3**) in order to facilitate the extraction of the shovel plate from the drum.

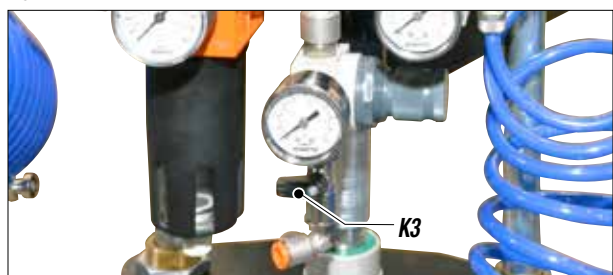


Fig. 3K

- 4 Let the ram reaches its maximum height and remove the empty (K4).

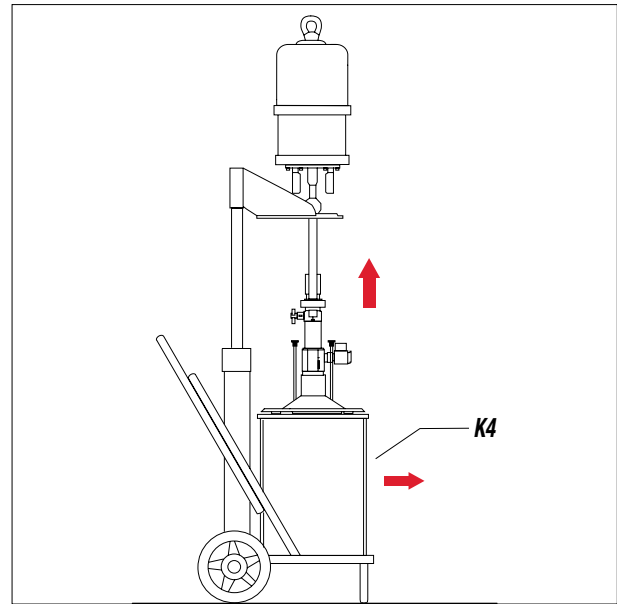


Fig. 4K

- 5 Insert the full drum (K5).

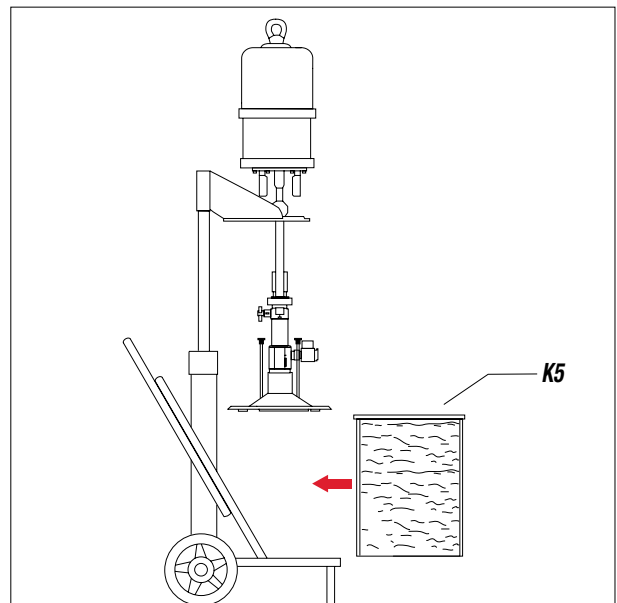


Fig. 5K

L 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 close the air compressed supply and release pressure in the circuit before performing any check or maintenance operation of the pump.

M PROBLEMS AND SOLUTIONS

Problem	Cause	Solution
The pump does not start	Feed air is insufficient	Increase feed air to the ram
	Outlet product line clogged	Clean. Disconnect the outlet pipe of the product, feed the pump at the minimum pressure and check if the pump starts without the outlet pipe.
	Dried product inside the pumping element	Disassemble the pumping group and clean (see the manual "Use and maintenance" of the pump)
	Pneumatic motor blocked in the cycle reversal position	Reduce feed air pressure to the pump.
		Manually reset the pneumatic motor and check (see the manual "Use and maintenance" of the pump)
Parts failure of the pneumatic motor	Disassemble the motor and check (see the manual "Use and maintenance" of the pump)	
Accelerated working and no pressure of the pump	There is no product	Replace drum with a full one
	The pump sucks air	Open the bleeder valve on the shovel plate and also the possible bleedr valve on the pump
		Check the delivery valve for drain air is not open. Close the valve.
	Feed air is not sufficient	Increase the feed air
	Worn gaskets of the pumping rod	Replace the lower gaskets (see the manual "Use and maintenance" of the pump)
	Suction valve worn or partially clogged	Clean and/or replace the parts worn (see the manual "Use and maintenance" of the pump)
	Delivery valve worn or partially clogged	Clean and/or replace the parts worn (see the manual "Use and maintenance" of the pump)
The pump works but not sufficient flow of product	Suction valve worn or partially clogged	Clean and/or replace the parts worn (see the manual "Use and maintenance" of the pump)
	Outlet product line clogged	Clean. Disconnect the outlet product pipe, feed the pump at the minimum pressure and check if the delivery increase without the outlet pipe
	Feed air pressure too low	Increase feed air pressure to the pump
The ram does not lift	Feed air is not sufficient	Increase feed air pressure to the ram
	The control lever is not turned to the left	Turn the lever to the left
	The shovel plate s blocked in the drum	Open gradually the drain air valve to the shovel plate so as to facilitate the coming out of the shovel plate of the drum
Leakage of material from the edges of the drum	Worn gaskets of the shovel plate	Replace the gaskets
	The feed air pressure of the pneumatic cylinder is excessive	Reduce air pressure

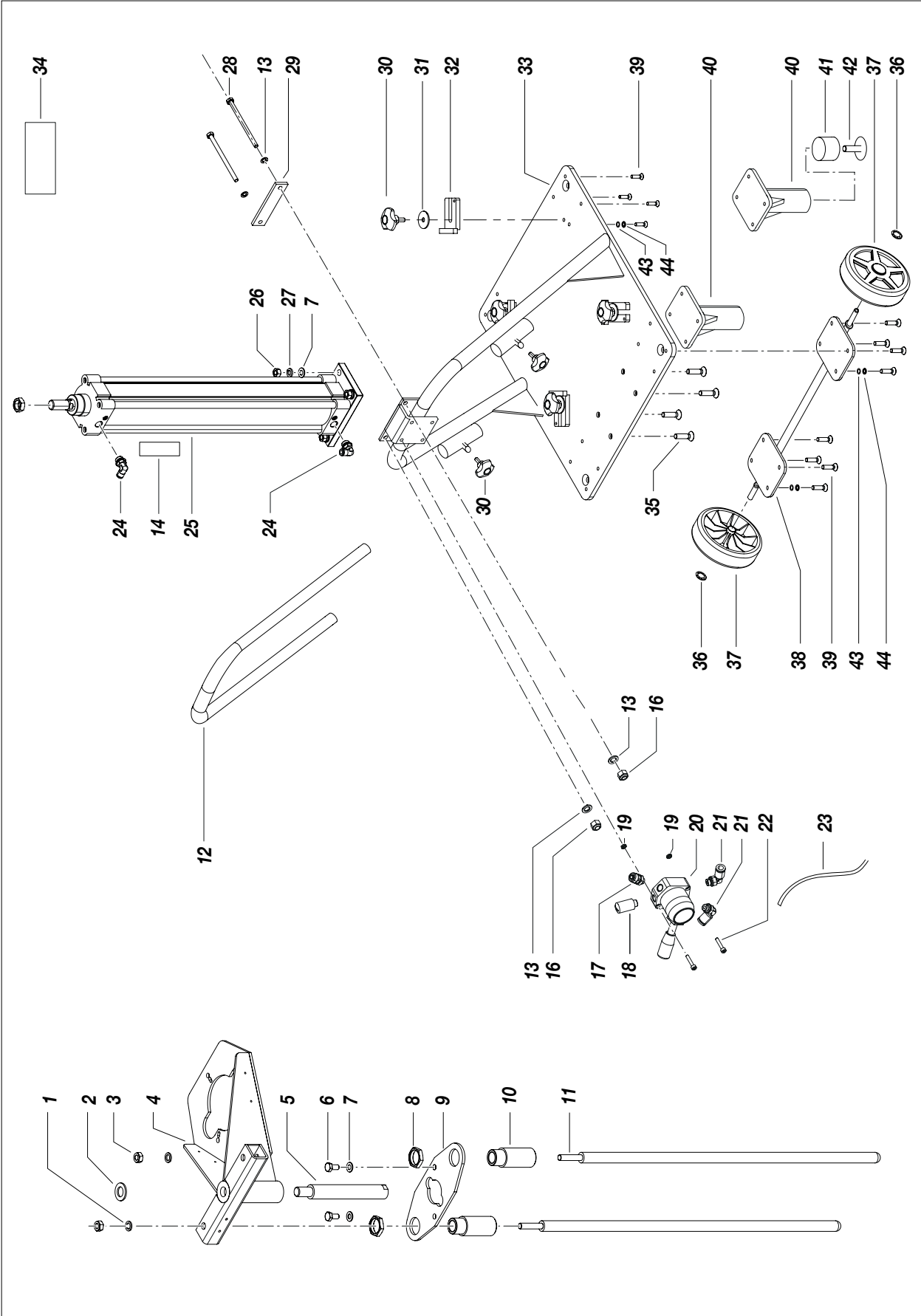


Always close the compressed air supply and release the pressure in the plant before performing any check or replacement of parts of the pump.

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N SINGLE COLUMN HOIST SPARE PARTS- TABLE 1/2

WARNING: Always indicate code and quantity for each part required.

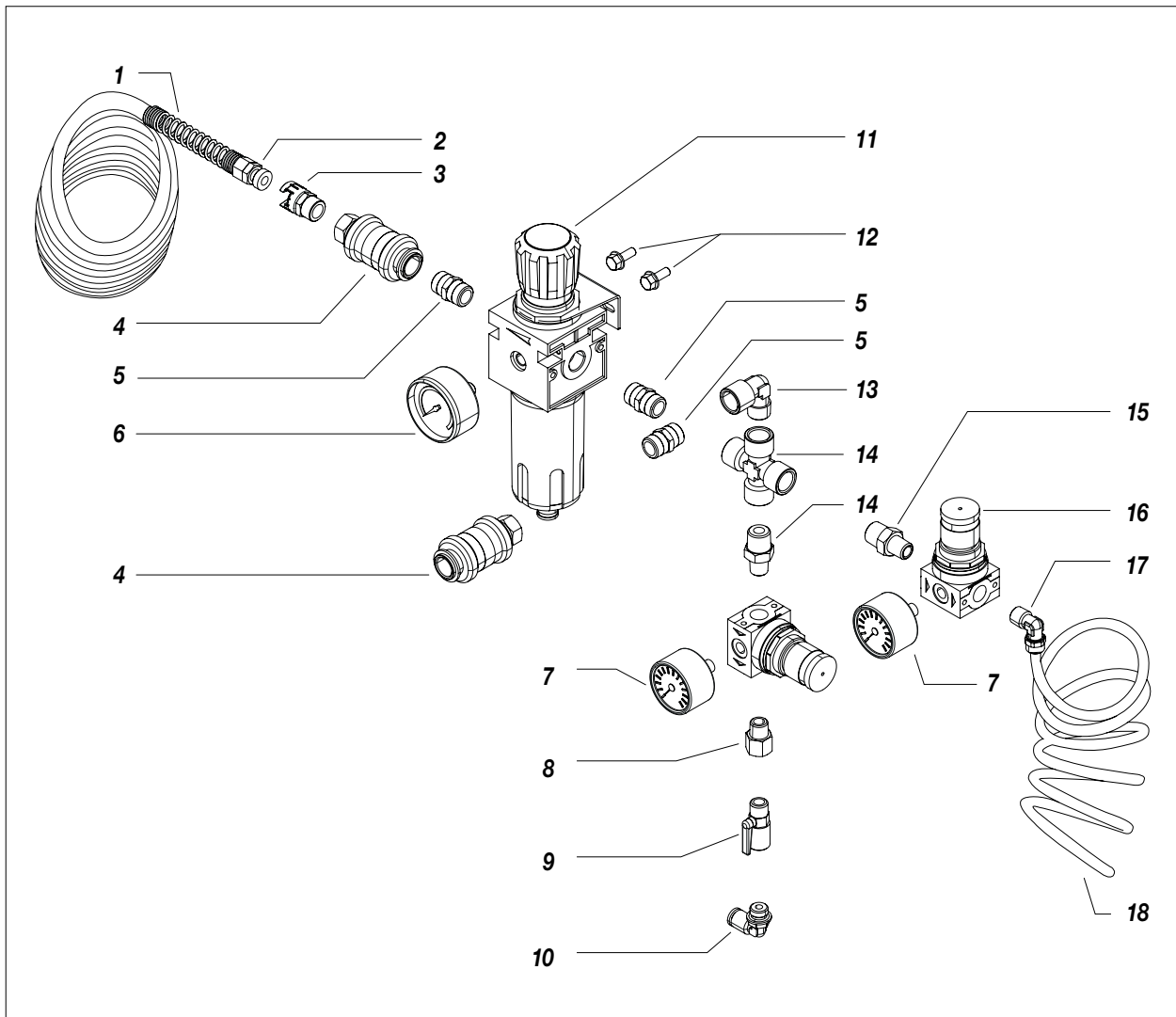


Pos.	Code	Description	Q.ty
1	510545	Washer	2
2	95110	Washer	1
3	5756	Self blocking nut	2
4	510415	Upper base plate	1
5	510437	Pneumatic cylinder pin	1
6	6130	Screw M10x20	2
7	81033	Flat washer	6
8	96842	Hex nut 1"	2
9	510428	Guide support	1
10	510429	Hoist column guide	2
11	510427	Hoist column guide 30lt	1
12	510632	Trolley handle	1
13	32024	Washer Ø8	20
14	96142	Label	1
15	510419	Valve support	1
16	3637	Self blocking nut M8	2
17	22072	Fitting 1/8"	1
18	510423	Silencer	1
19	5114	Nut M4	2
20	510438	Control lever	1
21	11797	Swivel elbow 1/8"	2
22	9274	Screw M4x22	2

Pos.	Code	Description	Q.ty
23	18153	Rilsan tube	1
24	510088	Elbow 3/8"	2
25	510412	Cylinder flangia+nut	1
26	95158	Nut M10	4
27	95096	Washer Ø10	4
28	20268	Screw M8x130	2
29	510601	Plate	1
30	510037	Locking handwheel	6
31	95153	Washer	4
32	510036	Clamps	4
33	510631	Hoist base 30lt	1
34	10105	Warning sticket	1
35	510003	Screw M10x40	4
36	91047	Wheel closing	2
37	37238	Wheel	2
38	510633	Axle wheele	1
39	32004	Screw M8 x 16	16
40	510634	Feet	2
41	12716	Plug	2
42	12454	Anri-vibration foot	2
43	34009	Washer Ø8 Schnor	16
44	32024	Flat whaser Ø8	16

TABLE 2/2

WARNING: Always indicate code and quantity for each part required.



Pos.	Code	Description	Q.ty
1	18161	Rilsan spiral tube	1
2	7547	Bayonet coupling	2
3	10103	Bayonet coupling nut	1
4	22057	Slide valve	2
5	91020	Fitting 3/8" BSPT	3
6	96259	Manometer 0-120 bar	1
7	8167	Manometer 0-10 bar	2
8	22027	Fitting M/F 1/4"-1/4"	1
9	4004	Ball valve 1/4"	1

Pos.	Code	Description	Q.ty
10	8063	Fitting 1/4"	1
11	91107	FR group 3/8"	1
12	900662	Hex screw	2
13	91102	Elbow 3/8" MF	1
14	3348	Cross adapter F 3/8	1
15	3560	Fitting M/M 3/8"-1/4"	2
16	3344	Regulator 3/8"-1/4"	2
17	5314	Fitting 1/4"	1
18	18160	Rilsan spiral tube	1



CE DECLARATION OF CONFORMITY



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Declares under his owns responsibility that the product:

SINGLE COLUMN HOIST 30 LT

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.

Signature

Pierangelo Castagna
Managing Director

Calolziocorte,
Location / Date



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