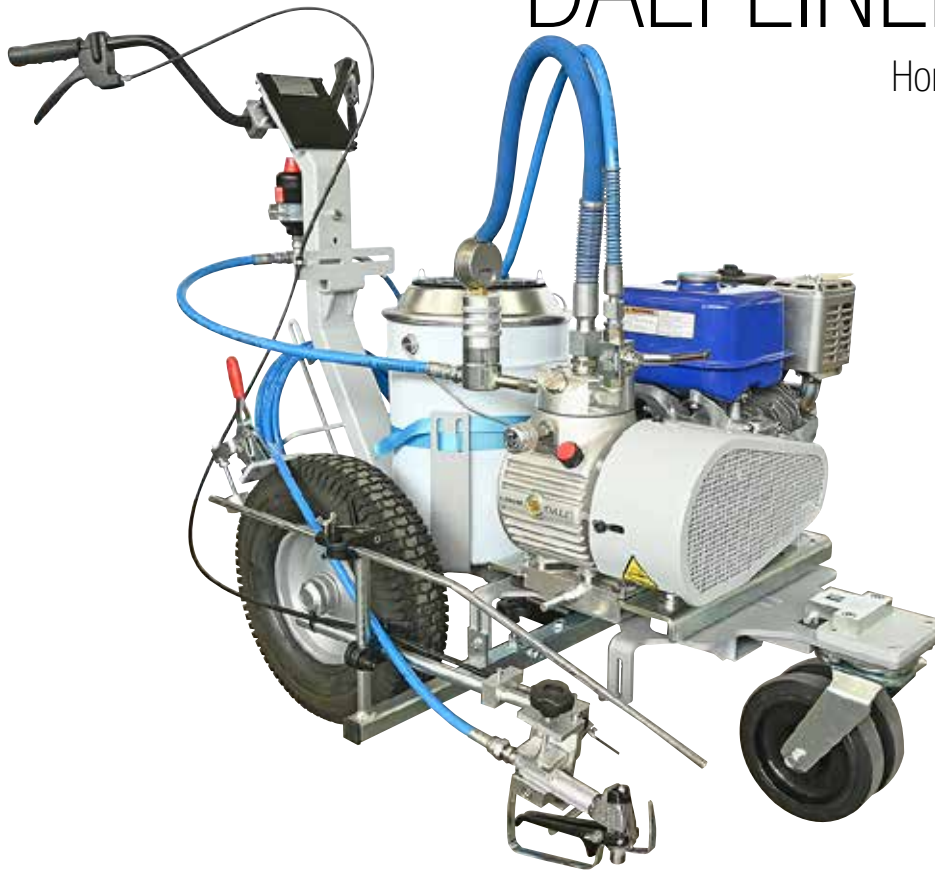




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DALÌ LINER PLUS

Horizontal street marking



IT https://www.larius.com/wp-content/uploads/DALILINER-PLUS_1.pdf

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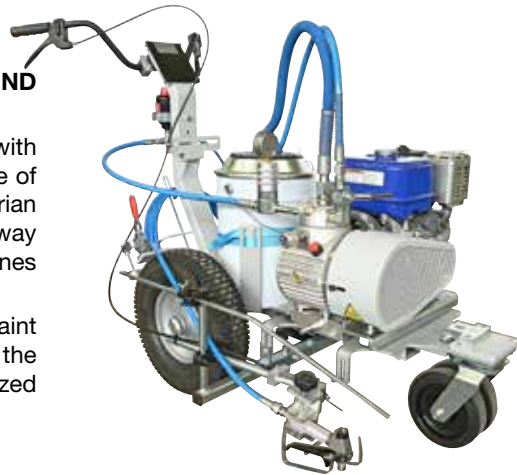
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The ideal choice for achieving professional performance.

WELL PROVEN TECHNICAL QUALITY FOR ANY ON-GROUND MARKING APPLICATION

The airless line markers successfully join product performance with operator requirements and allow the marking and the maintenance of any kind of pavement lines on roads, motorways, airports, pedestrian crossings, cycle paths, yards and wherever is required by the Highway Code with regards to horizontal road signs, guaranteeing perfect lines on different surfaces.

The airless technology provides the high pressure spraying of the paint through a nozzle having centesimal dimensions as compared to the traditional low pressure spraying in which the paint flow is atomized through the air contribution.



Advantages of use

Net and clear lines on any kind of pavement with one coat only.

With a single coat the line is defined evenly: the line made by airless spraying is linear, clean-cut and marked thanks to the flat cut nozzle and without the jagged due to the turbulences caused by air.

Reduction of Over spray.

The airless operated marking guarantees the absence of the classic "Overspray", that is the dispersion of paint particles which is typical in the traditional air painting.

This translates, further than in a saving of paint, in a better protection for health of the operator and for environment.

Saving of paint up to 30%.

Thanks to the absence of Overspray almost all of the used product is applied on the surface without any waste.

Reduction of the vibrations.

The reduction of the vibrations ensures the best in industry quality of lines.

The paint dries quickly.

The airless operation requires that filtered paint specifically formulated for airless application is used, this means, by itself, even paint, smooth and uniform texture which will not return any crust nor will become neither jelly-like nor thick.

The paint holds tightly on any kind of pavement, with an excellent visibility and resistance to wear caused both by traffic and weather elements.

High quality paints guarantee a faster application speed, a better durability of the visibility of the line and a pleasant aesthetic result.

Reflective bead application.

Reflective beads can be applied using a gravity dispenser operated by the same command which operates the paint gun. The spheres automatically fall onto the freshly marked line. No paints with pre-mixed beads

can be used.

50 litre non-stick hopper.

Thanks to the big capacity of the hopper marking times are extended thanks to the absence of frequent interruptions to perform colour changes.

Template works and curved marking.

The gun can be released from its support in just a few seconds and, thanks to the 10 meters pipe it is connected to, it allows any template work, on walls as well.

The front wheel helps to mark lines close to the kerb and to mark arches and curves.

Intuitive use by the operator.

The operator commands are located right on the handlebar to adjust the operation of the line marker in the most handy way.

Optional equipment.

Airless line markers can be equipped basing on the different needs of the operator for offering a dedicated solution for any marking need.

Easy cleaning and maintenance.

Cleaning airless line markers is quick thanks to the absence of pressurized tanks to be cleaned and thus colour change times are extremely short both if using the can or the non stick paint tank. The high pressure of the airless line marker clears the spraying area from dirt and so it does not require that the ground is previously cleaned.

A regular cleaning at the end of the work is sufficient to keep the machine in perfect efficiency, even after prolonged standing periods.

The Super Fast Clean airless nozzles allow that the nozzle is cleaned with a simple rotating movement, without any need to detach it.

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.

DALÌ LINER PLUS

Horizontal street marking

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

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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. • Tenersi lontano dalle parti in movimento. • Do not use the equipment without the proper protection. • Before any inspection or maintenance of the equipment, carry out the decompression procedure explained in this manual, and prevent any risk of the equipment starting unexpectedly.
 	<ul style="list-style-type: none"> • Report any risk of chemical reaction or explosion if this warning has not been given. • (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. • 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.
   	<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

- 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.



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.

- 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.
- 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.

- 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.

The high speed 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.

Always check the product is compatible with the materials composing the equipment (pump, spray gun, flexible hose and accessories) with which it can come into contact.

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.

Engine safety precautions:

- Read the engine operator's manual annex.

Never attempt to tamper with the calibre of instruments.



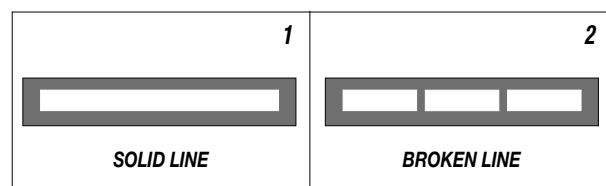
Fig. 1

E OPERATION PRINCIPLE

The **DALÌ LINER PLUS** is a self-propelled device which was conceived and designed for to be able to carry out medium road marking works. The internal combustion engine, mounted upon the undercarriage, powers the diaphragm pump. The internal combustion engine is coupled with a cam shaft which acts on the hydraulic piston. The piston pumps oil from the hydraulic case and sends the suction diaphragm into fibrillation. When the diaphragm moves, it creates a vacuum. The product is sucked up, pushed towards the pump outlet and sent to the guns through the flexible hose. A hydraulic valve on the hydraulic case head allows setting and checking the pressure of the paint product at the pump outlet. A second hydraulic safety valve to avoid over-pressure, ensures total equipment reliability. The control zone allows for the possibility of:

- Activating the dispensing spray gun;
- Enabling or disabling the frontal steering wheel;
- Increasing the motor's Rpm's;
- Selecting solid or broken-line painting functionality.

This type of equipment is capable of painting one line at a time in a single color. The line may be solid or broken.



DALÌ LINER PLUS is ideal for medium marking and maintenance jobs.



Use water or non-refractive solvent filtered paint specifically designed for airless application.

DALÌ LINER PLUS allows for the marking and maintaining of all types lines on highways, freeways, pedestrian crossings, parking lots and squares, as well as every horizontal marking required by the highway code.

Airless marking has numerous proven benefits with respect to line-markers with pressurised tanks, which have been rendered obsolete by airless-technology line markers.

Airless line-marking guarantees:

- Decreased Environmental Impact;
- Decreased drying time.

The paint dries quickly and the line is defined in a uniform manner with a single coat. The airless function requires the use of filtered paint which is specifically designed for airless application. This means that the paint is homogeneous, of a smooth and uniform consistency and will not form crusts, nor will it become gelatinous or thick. With this airless line-marker, the paint adheres firmly to all types of pavement, with optimal visibility, and is resistance to wear caused both by traffic as well as atmospheric agents.



Fig. 1

These models, the paint canister can be loaded directly upon the undercarriage or else poured into the non-stick, 50 L tank. In every case, cleaning, maintenance and colour change operations are facilitated.



Fig. 2

The line-marker is equipped with a 360° pivoting frontal wheel which even increases the agility of the larger models. High yield, high efficiency, high versatility.

This line-marker utilises non-premixed paints. This allows it to achieve about 30% more yield with respect to standard line-markers. Every model is also an airless spray gun which can be used in the construction/decoration sector together with washable products, enamels, breathable paints and flooring resins. A vast assortment of accessories is available to satisfy every customer demand.

F TECHNICAL DATA

DALÌ LINER PLUS	
Max. flow pressure	210 bar
Max. flow rate	4 - l/m
Yamaha motor power	4,8 Hp
Airless paint capacity	23 l paint can - 50 l gravity tank
Dimensions	1,250 x 820 x 1.400
Weight	120 kg

SECTORS OF USE

- External or underground parking lots (schools, hotels, airports, supermarkets, train stations, subway stations, ports);
- External public areas;
- Industrial and exhibition building zones;
- Freeway service areas and service stations;
- Pedestrian median lines, intersections, bicycle tracks, reserved lanes;
- Internal and external logistic area markings;
- Playing fields.



Fig. 1

SFC SPRAY TIPS/NOZZLES TABLE - TSC

Ø nozzle (inch)	Spray angle (°)	Line Width		Flow rate (gpm)	Flow rate (lpm)
		inch	mm		
.013	13 - 20	2 - 4	51 - 102	.18	.69
.015	15 - 20	2 - 4	51 - 102	.24	.91
	15 - 30	4 - 6	102 - 152		
.017	17 - 20	2 - 4	51 - 102	.31	1.17
	17 - 30	4 - 6	102 - 152		
	17 - 40	4 - 8	102 - 204		
.019	19 - 20	2 - 4	51 - 102	.38	1.47
	19 - 30	4 - 6	102 - 152		
	19 - 40	4 - 8	102 - 204		
.021	21 - 30	4 - 6	102 - 152	.47	1.79
	21 - 40	4 - 8	102 - 204		
	21 - 60	8 - 12	204 - 305		
.023	23 - 30	4 - 6	102 - 152	.57	2.15
	23 - 40	4 - 8	102 - 204		
	23 - 60	8 - 12	204 - 305		
.025	25 - 30	4 - 6	102 - 152	.67	2.54
	25 - 40	4 - 8	102 - 204		
	25 - 60	8 - 12	204 - 305		
.027	27 - 30	4 - 6	102 - 152	.77	2.96
	27 - 40	4 - 8	102 - 204		
	27 - 60	8 - 12	204 - 305		

Ø nozzle (inch)	Spray angle (°)	Line Width		Flow rate (gpm)	Flow rate (lpm)
		inch	mm		
.029	29 - 30	4 - 6	102 - 152	.90	3.42
	29 - 40	4 - 8	102 - 204		
	29 - 60	8 - 12	204 - 305		
.031	31 - 30	4 - 6	102 - 152	1.03	3.90
	31 - 40	4 - 8	102 - 204		
	31 - 60	8 - 12	204 - 305		
.033	33 - 30	4 - 6	102 - 152	1.17	4.42
.035	35 - 30	4 - 6	102 - 152	1.31	4.98
	35 - 40	4 - 8	102 - 204		
	35 - 60	8 - 12	204 - 305		
.039	39 - 30	4 - 6	102 - 152	1.63	6.18
	39 - 40	4 - 8	102 - 204		
	39 - 60	8 - 12	204 - 305		
.043	43 - 30	4 - 6	102 - 152	1.98	7.51
	43 - 40	4 - 8	102 - 204		
	43 - 60	8 - 12	204 - 305		

Part No.	Manual push	23 l Paint can	50 l Gravity tank	Automatic marking kit	Airless hose	AT250 Airless Manual Gun	Airless nozzle holder	Super fast clean airless nozzles
LA18383	•	•	–	–	N°1 Part No.35015 Ø 1/4"-M16x1.5-10m	N°1 Part No.11210 m16x1.5 inlet swivel	N°1 Part No.18270	N°1 SFC 11-40 N°1 SFC 13-40 N°1 SFC 15-40
LA18382	•	–	•	–	N°1 Part No.35015 Ø 1/4"-M16x1.5-10m	N°1 Part No.11210 m16x1.5 inlet swivel	N°1 Part No.18270	N°1 SFC 11-40 N°1 SFC 13-40 N°1 SFC 15-40
LA8382/1	•	–	•	•	N°1 Part No.35015 Ø 1/4"-M16x1.5-10m	N°2 Part No.11210 m16x1.5 inlet swivel	N°2 Part No.18270	N°2 SFC 13-40 N°2 SFC 15-40 N°2 SFC 19-40

CONFIGURATIONS			
Part No.	18383	18382	18382/1
Petrol engine power	4.8 HP	4.8 HP	48 HP
Max. Flow rate	4 - l/m	4 - l/m	4 - l/m
Max. Pressure	220 bar	220 bar	220 bar
Manual push	•	•	•
Self propelled	–	–	–
Head control system	–	–	–
Automatic marking lines kit	–	–	–
Glass beads kit	–	–	•
Flashing telescopic Rod	–	–	–
23 L Paint can	•	–	–
50 L Gravity tank	–	•	•
Airless hose Ø 1/4" - M16 x 1,5 - 10M	•	•	•
Recirculation Hose	•	•	•
Filter with pressure gauge	•	•	•
1 AT250 Airless manual spray gun	•	•	
2 AT250 Airless manual spray guns	–	–	•
2 LA96 Airless manual spray guns	–	–	–
Airless nozzle holder	•	•	•
Super fast clean airless spraying nozzles	•	•	•
1 colour	•	•	•
1 single line: continuous - dashed	•	•	•
2 double line: continuous - dashed -mixed	–	–	–
Tools kit	•	•	•

ACCESSORIES	
Part No.	Description
LA35015	Airless hose Ø 1/4" - M16 x 1,5 - 10 m
LA11200	AT250 manual airless spray gun - M16x1,5 inlet swivel+ Nozzle holder
LA11210	AT250 manual airless spray gun - M16x1,5 inlet swivel
LA18270	Airless nozzle holder
LASFC	Super Fast Clean airless nozzle. Size from 11-20 to 51-80
LATSC	Super Fast Clean airless nozzle. Size from 7-20 to 31-60
LA18240	50 l Gravity tank
LA18245	50 l Gravity tank + Cover
LA18241	50 l Gravity tank + Cover + Basket
LA4500	11 l Gravity tank + Glass beads diffuser hose

KITS	
Part No.	Description
LA200270	Complete kit for second airless gun for Part No. LA18383 and Part No. LA18382 (mounting kit Part No. LA4307 + airless gun Part No. LA 1100 + airless nozzles Part No. LASFC 11 - 40/13 - 40/15 - 40).
LA4307	Mounting kit for second airless gun (airless gun not included)
LA18359	11 l Gravity tank + 1 Diffuser hose + 1 Glass beads manual spray gun kit
LA18354	11 l Gravity tank + 1 Diffuser hose + 2 Glass beads manual spray guns kit
LA4038	Laser pointer kit
LA4840	Gun handling + Front pivot wheel kit (manual push airless line strippers models)

G DESCRIPTION OF THE EQUIPMENT

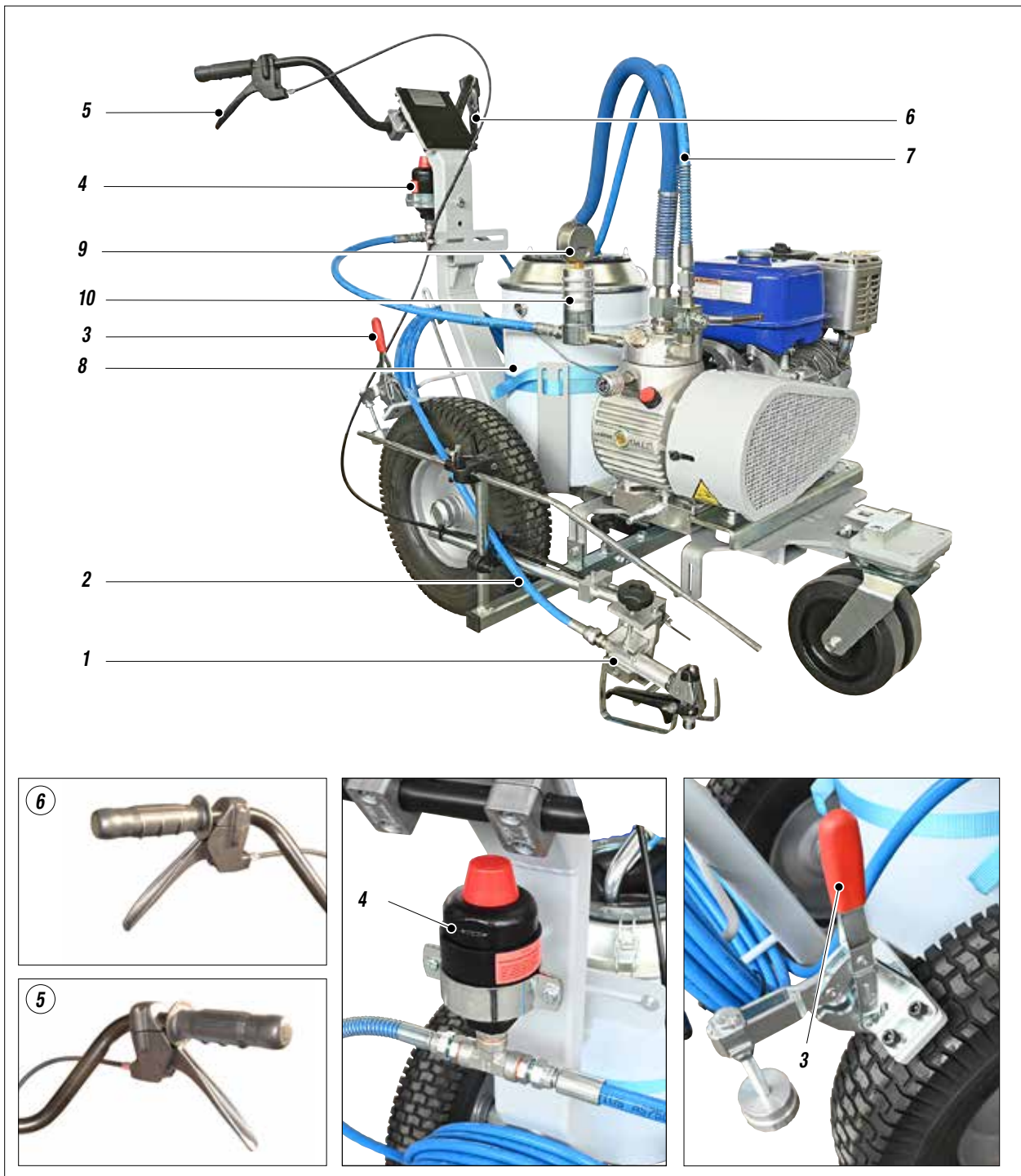


Fig. 1

Pos.	Description
1	AT 250 gun
2	Spraying gun feeding tube
3	Lock brake safety
4	Flow compensator
5	Lever gun

Pos.	Description
6	Lever lock/unlock wheel direction
7	Recirculation tube
8	Tank
9	Manometer high pressure
10	Filter

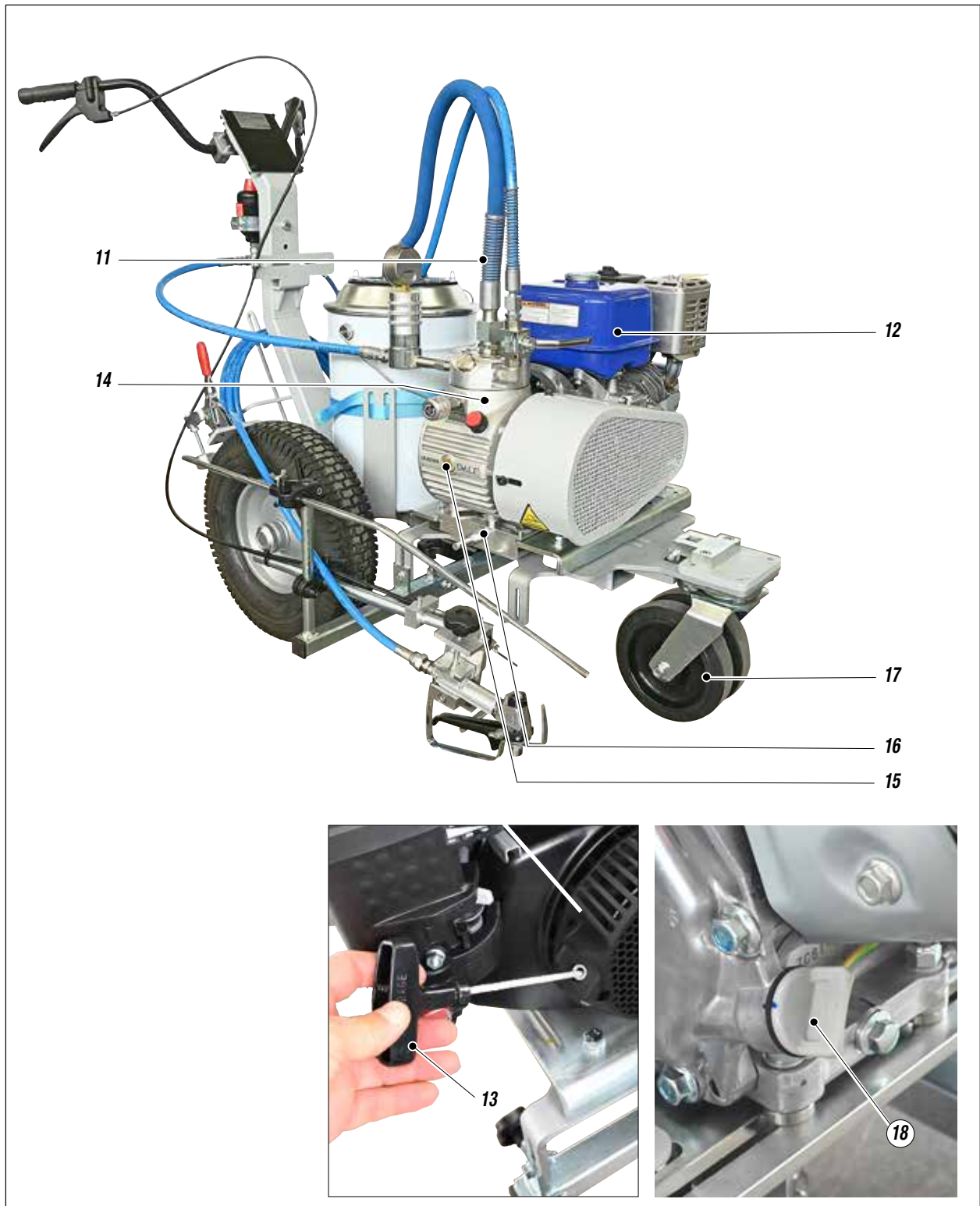


Fig. 2

Pos.	Description
11	Product feeding tube
12	Petrol tank
13	Rope starter motor
14	Pumping group
15	Oil level light hydraulic body

Pos.	Description
16	Belt tensioning screw
17	Rotating wheel
18	Oil level cap combustion engine

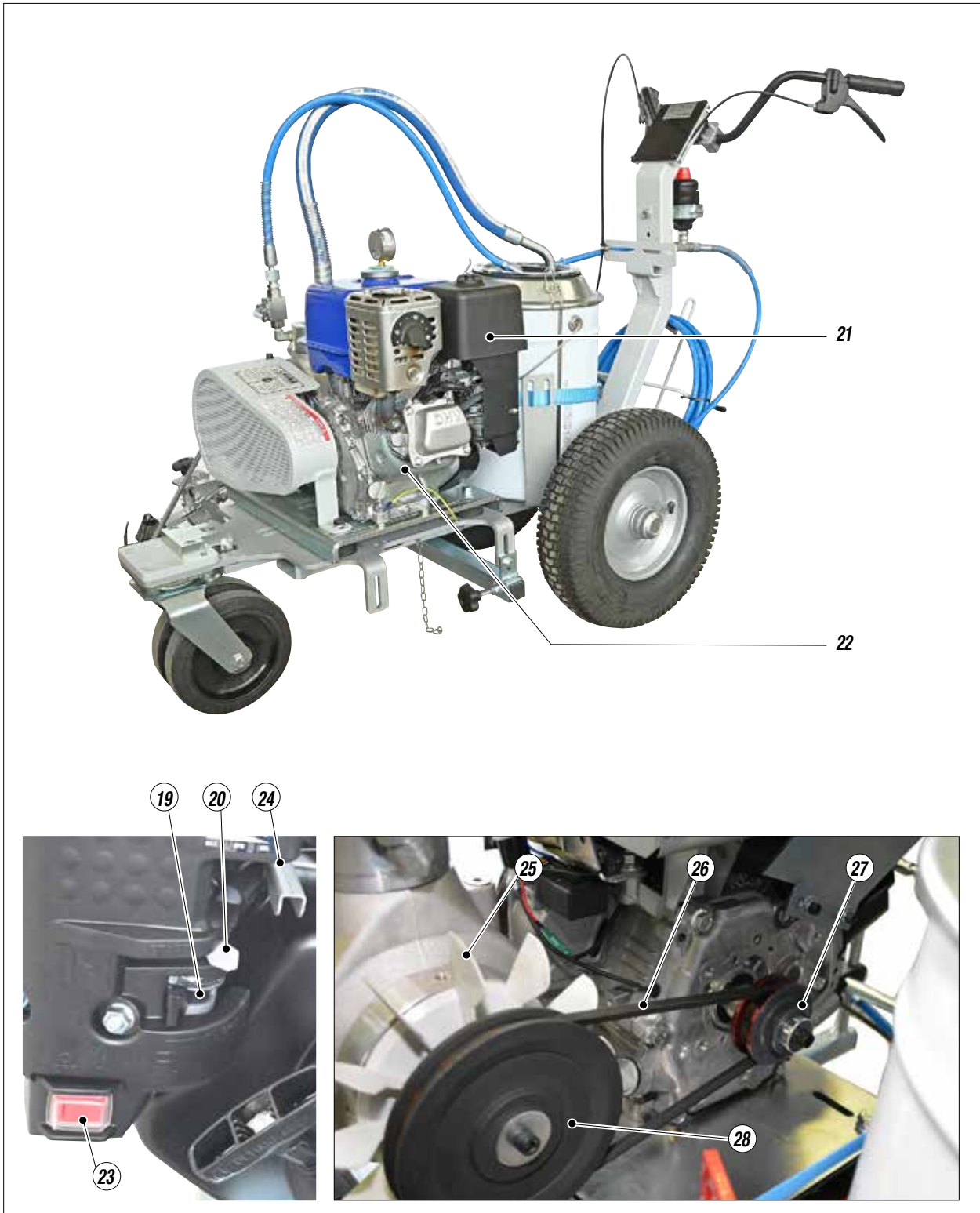


Fig. 3

Pos.	Description
19	Fuel tap OPEN/CLOSE
20	Air cold starting
21	Air filter
22	Belt tensioning screw
23	ON - OFF switch combustion engine

Pos.	Description
24	Accelerator lever
25	Cooling fan
26	Transmission belt pumping group
27	Driving pulley
28	Free pulley

H SETTING-UP

TUBE CONNECTIONS

Flexible re-circulation tube connection

- Connect the flexible re-circulation tube (1) to the connector (2) ensuring to tighten the fittings (*the use of two wrenches is suggested*).

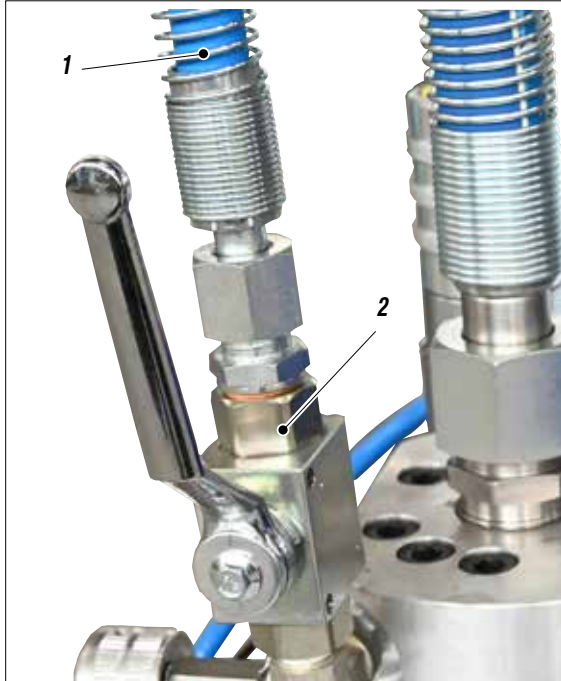


Fig. 1

Pump unit flexible tube connection

- Connect the product suction flexible tube (3) to the connector (4) ensuring to tighten the fittings (*the use of two wrenches is suggested*).



Fig. 2

CONNECTION OF THE GUN

- Connect the high pressure flexible hose (5) to the fitting (6) and the gun (7) tightening the fittings strongly (*the use of two wrenches is suggested*). **NEVER** use sealants on fittings' threads.
- It is recommended to use the hose provided with the standard kit. **NEVER** use a damaged or a repaired flexible hose.



Fig. 3

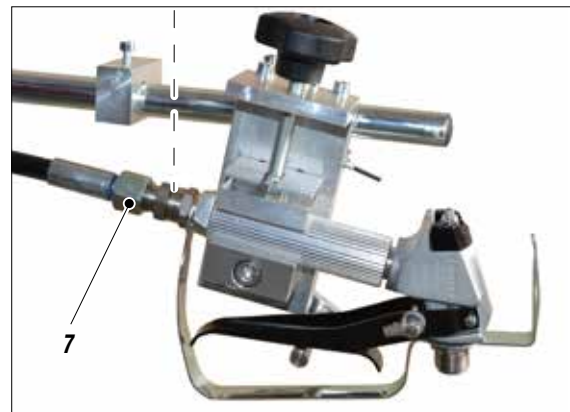
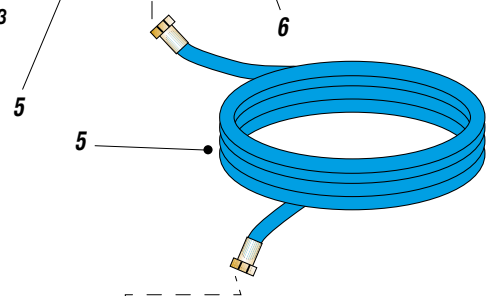


Fig. 4

STARTING THE COMBUSTION ENGINE

To switch the internal combustion engine proceed as follows:

- Fill the fuel tank (8).



Fig. 5

- Open the fuel tap (9) and position it to "OPEN" (I).



Fig. 6

- Position lever (10) for first start-up cold ("I" position).



Fig. 7

- Press the switch (11) to ON (I).

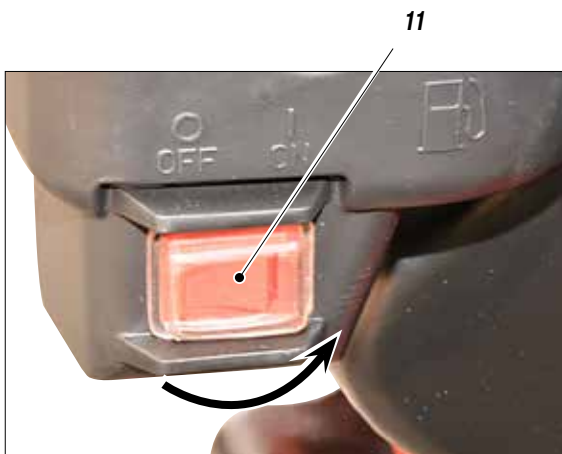


Fig. 8

- Bring the accelerator lever (12) to about 1/2 of its run.

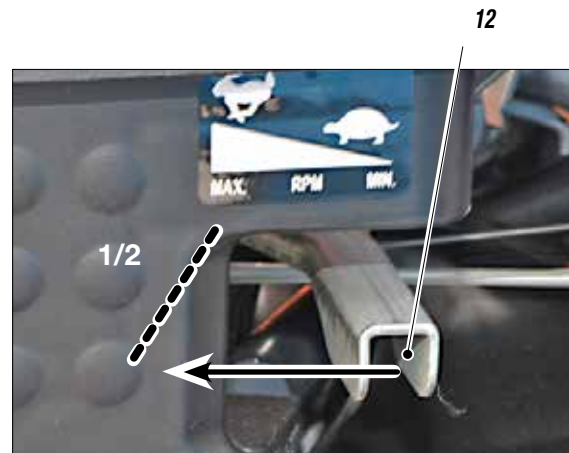


Fig. 9

- Pull the rope to start (13).



Fig. 10

WASHING OF THE NEW EQUIPMENT

- The equipment has already been adjusted at our factory with light mineral oil left inside the pumping group as protection. Therefore, wash with diluent before sucking the product.
- Fill the product tank with wash fluid.
- Clean the inside of the tank with a brush.

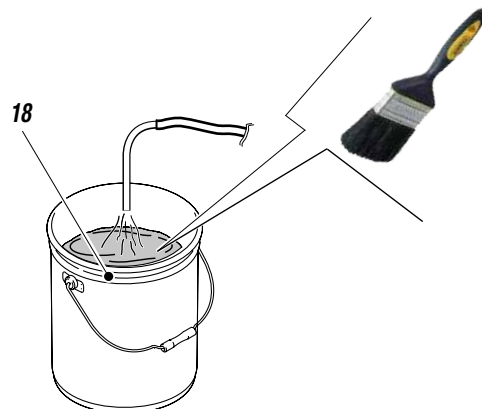


Fig. 11

- Ensure the gun (14) is without nozzle.

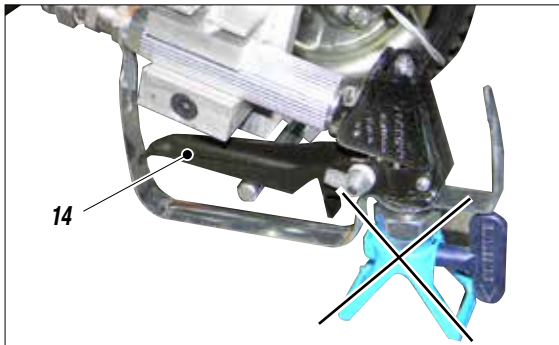


Fig. 12

- Open the product output tap (15).

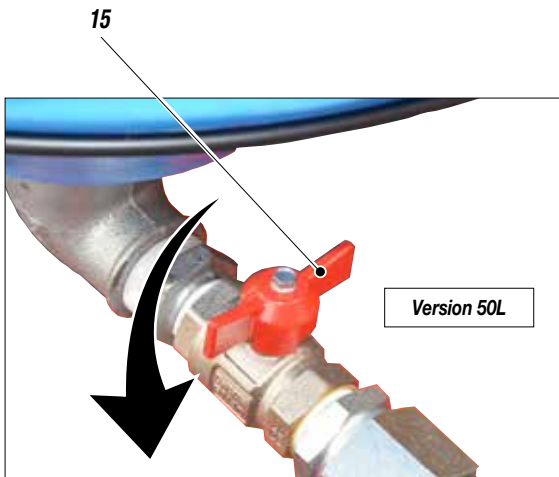


Fig. 13

- Open the recirculating-safety valve (16).

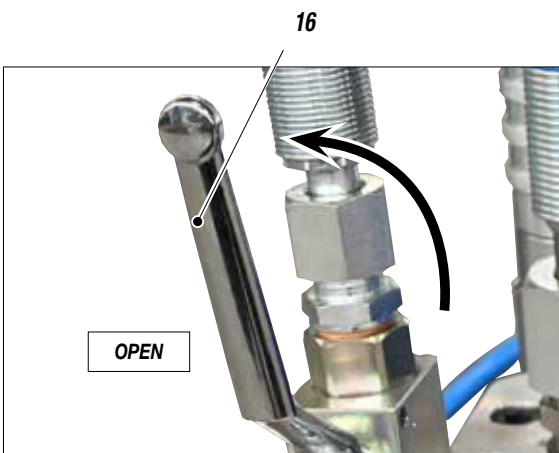


Fig. 14

- Start the combustion engine following the indications provided in the chapter "STARTING COMBUSTION ENGINE".

- Rotate the pressure setting knob (17) slightly clockwise so that the machine operates at minimum power.

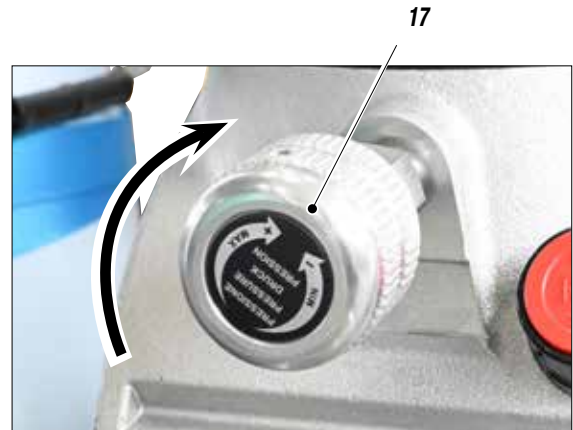


Fig. 15

- Visually check that the wash fluid starts to re-circulate within the tank (18).

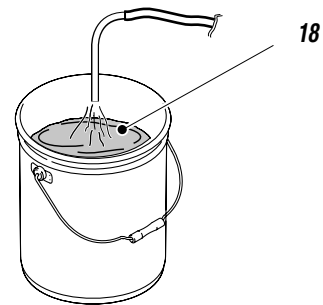


Fig. 16

- Once the wash fluid has circulating enough, close the recirculating-safety valve (16).

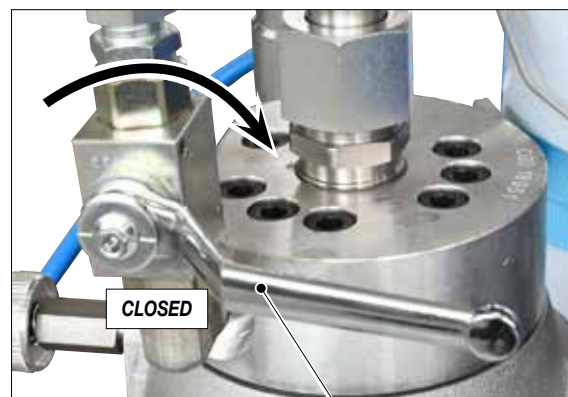


Fig. 17

- Remove the gun (14) from its support and point it into a container (19). Hold the trigger down (to perform the cleaning) until clean solvent comes out, or else until all of the wash fluid has been expelled from the tank.

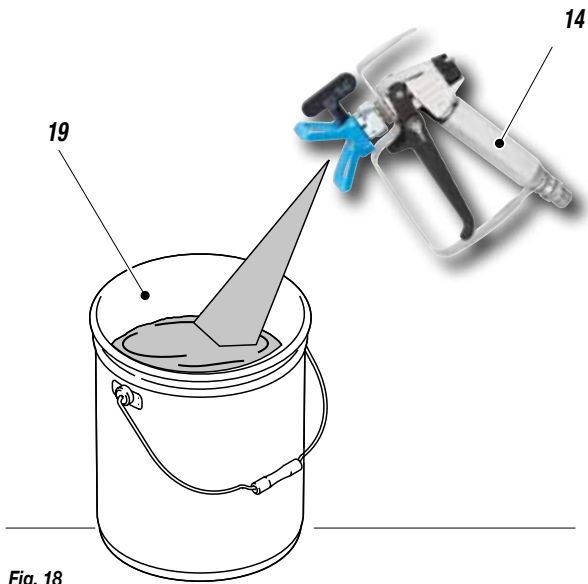


Fig. 18



Repeat the same operations with clean solvent if necessary.

- After having completed the wash operations, bring the handle to its MIN position (17) and point the gun (14) into a collection container (19) and press the trigger to release the residual pressure. Release the trigger when finished.



NEVER spray solvents indoors. In addition, it is recommended to keep away from the pump in order to avoid the contact between the solvent fumes and the motor.

- When the pump idles stop the combustion engine.
- At this point the machine is ready. If water-based paints are to be used, after the wash with solvent wash the tank again with soap and water, then rinse with clean water (*repeating the previously described procedures*).
- Insert the manual gun trigger lock and assemble the nozzle.

PRODUCT PREPARATION



MAKE SURE THE PRODUCT IS SUITABLE TO BE USED WITH A SPRAY GUN.

- Mix and filter the product before using it. For filtration use **CLOSE-MESH** (rif. 214) and **LARGE-MESH** (rif. 215) LARIUS METEX braids.



Make sure the product to be used is compatible with the materials employed for manufacturing the equipment (stainless steel and aluminium). Because of that, please contact the supplier of the product.

Never use products containing halogen hydrocarbons (as *methylene chloride*). If these products come into contact with aluminium parts of the equipment, can provoke dangerous chemical reactions with risk of explosion.

- Fill the tank (20) with the paint.



Fig. 19

I REGULATIONS

ADJUSTING THE GUN POSITION

In order to adjust the position of the spray gun (1) use the knobs (2-3).

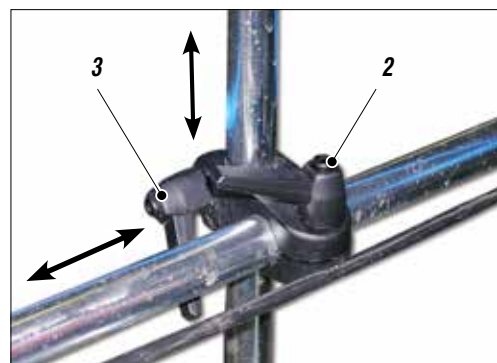
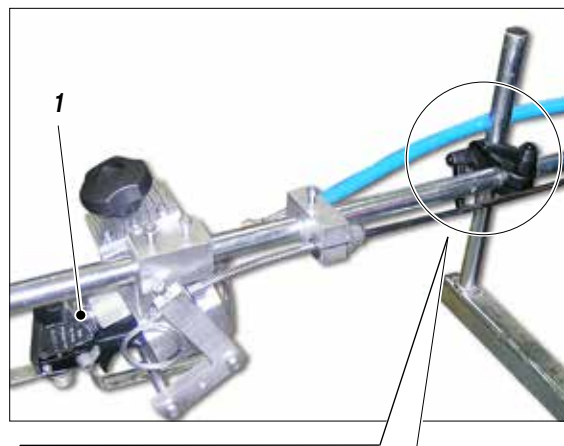


Fig. 1

ADJUSTING THE GUN SUPPORT ARM

In order to adjust the position of the spray gun (4) use the knobs (5).

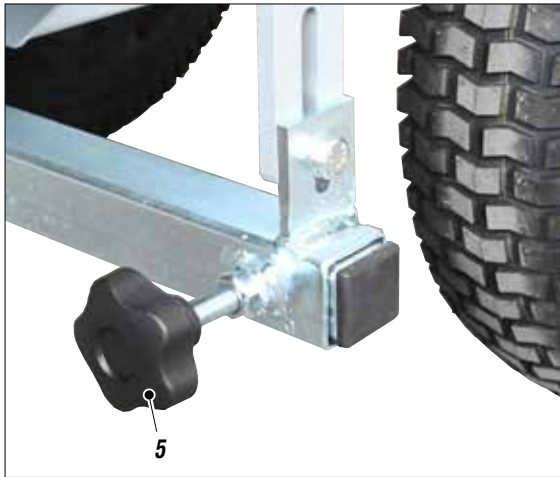


Fig. 2

ADJUSTING BELT TENSION

To adjust the belt tension (6) you need to follow the following procedure:

- Unscrew the 4 screws (7).
- Unscrew the locknut (8).
- Turn the screw (9) to make the adjustment.

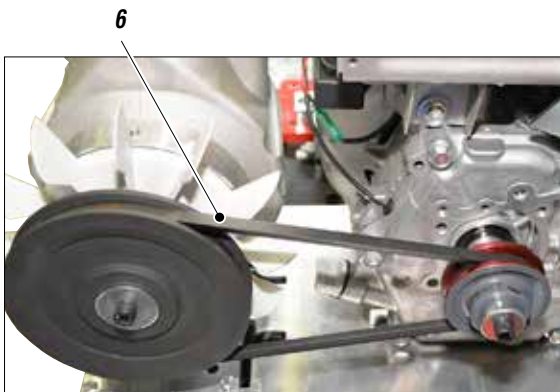


Fig. 3

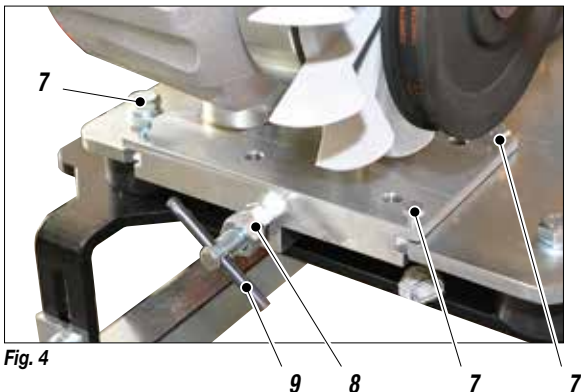


Fig. 4

J OPERATION

SETUP PROCEDURE

- Use the tooling after performing all the **SETTING UP** operations above described.
- Check that there is enough unleaded petrol.
- Open the product output tap (1) (50ft version only).

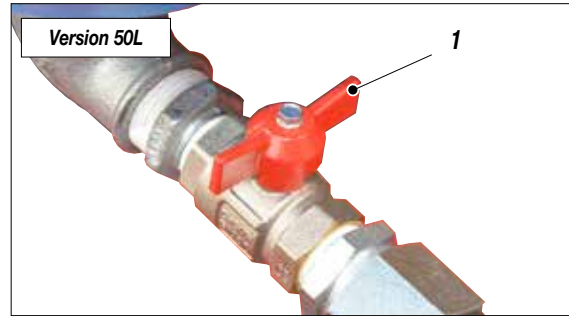


Fig. 1

- Press the switch (2) to **ON (I)**.

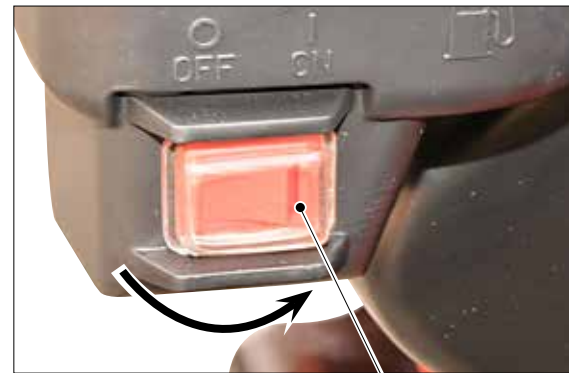


Fig. 2

- Start the combustion engine following the indications provided in the chapter "**STARTING COMBUSTION ENGINE**".
- Make sure that the re-circulation/safety valve (3) is closed (spray enabled).

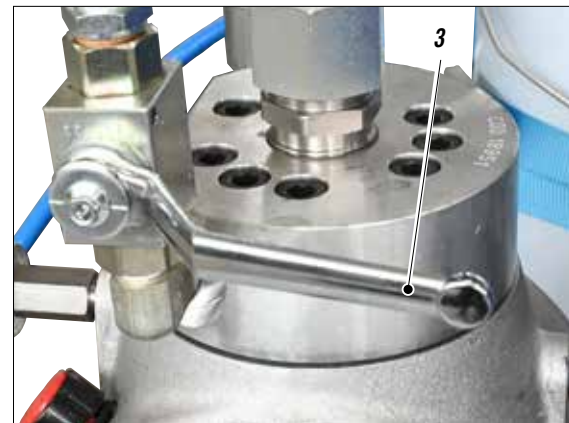


Fig. 3

- Turn the pressure (4) adjustment handle clockwise until the desired setting has been reached.



Fig. 4

ADJUSTING PUMP UNIT SPEED

- Move the motor acceleration lever (5) gently to increase or decrease the speed of the pump.

During the painting operation it is normally recommended to maintain the position of the accelerator lever (5) at about 3/4 of its maximum run.

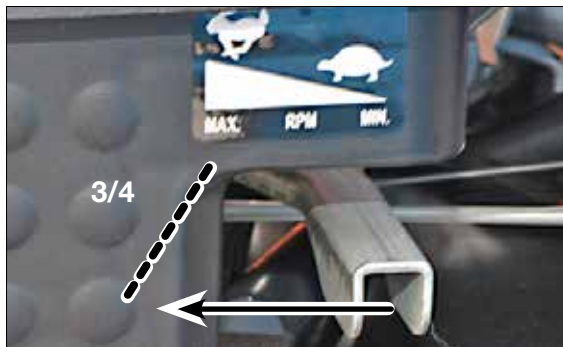


Fig. 5

K PAINTING OPERATIONS

After having performed all of the operations in the “OPERATION” chapter, work may be started using the following controls:

- Turn the pressure adjustment handle (1) clockwise to allow the line-painting gun to dispense paint when the appropriate lever is activated.

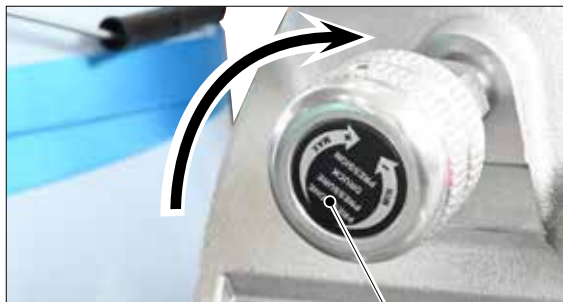


Fig. 1

1

- An irregular and marked spray on the sides indicates a low working pressure. On the contrary, a too high pressure causes a high fog (“overspray”) and waste of product.
- Pull the lever on the right (2) to activate the spray gun and begin working, advancing the machine in a continuous manner.



Fig. 2



NEVER point the spray gun at yourselves or at other people. The contact with the casting can use serious injuries. In case of injuries caused by the gun casting, seek immediate medical advice specifying the type of the product injected.



Recirculating-safety valve: when working at the maximum pressure available, releasing the gun trigger sudden increases of pressure can occur. In this case, the recirculating-safety (2) valve opens automatically eliminating part of the product from the recirculating tube (5). Then it closes so as to go back to the first working conditions.

L CLEANING AT THE END OF WORK

- Reduce pressure to the minimum (turn counterclockwise the pressure control knob (1)).



Fig. 1

1

- Release the residual pressure by holding down the trigger of the gun and pointing it into a container.
- Eliminate the paint remaining within the tank (2) by placing the re-circulation tube (3) into a container.
- Open the recirculating-safety valve (4).

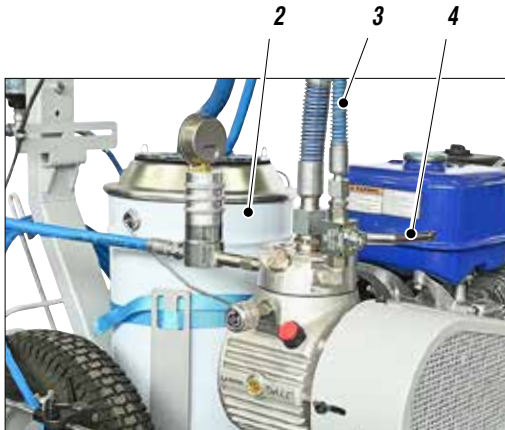


Fig. 2

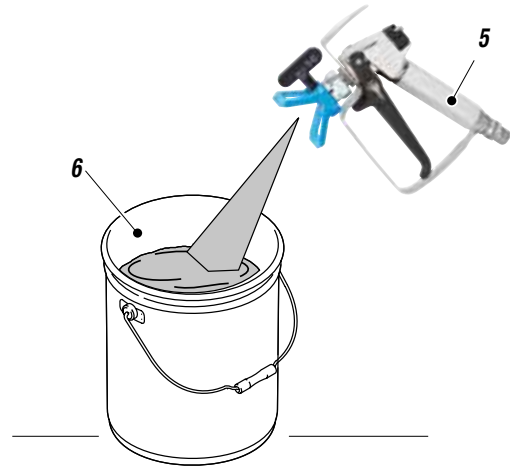


Fig. 4

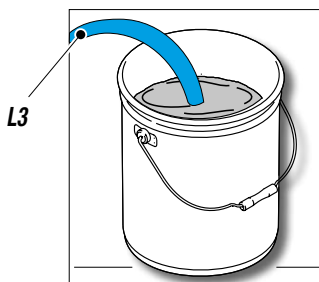


Fig. 3

- Turn the pressure adjustment (1) handle slightly clockwise to make the machine function at minimum pressure (pump activated), until the tank has been completely emptied then shut off the pump by bringing the handle (1) to its minimum position.
- Fill the tank (2) with wash fluid.
- Clean the walls of the tank with a brush.
- Turn the pressure adjustment (1) handle slightly clockwise to make the machine function at minimum pressure (pump activated).
- Make sure the re-circulation tube (3) is inserted into a container and wait for clean wash fluid to come out of it.
- Turn the pressure adjustment handle (1) to minimum (pump stopped).
- Place the re-circulation tube back into the tank.
- Keep the gun's trigger pressed to release any residual pressure.
- Remove the nozzle from the gun and wash it separately.
- Closed the recirculating-safety valve
- Turn the pressure adjustment handle (1) slightly clockwise to make the machine function at minimum pressure (pump activated).
- Point the manual gun (5) into a container (6), drain the residual paint and wait for the wash fluid to come out clean the entire spraying circuit.

- Empty all of the wash fluid from the tank and turn off the equipment.
- Turn the pressure adjustment handle (1) to minimum (pump stopped).
- Shut off the motor.
- In case of long storage, we recommend you to suck and to leave light mineral oil inside the pumping group and the flexible hose.



Follow the washing procedure before using again the equipment.

M GENERAL MAINTENANCE



Discharge the pressure in the pump unit (open the discharge valve) before carrying out any maintenance operation.

DAILY

- Clean the filters;
- Clean the nozzles;
- Clean all the varnish circuit with a specific product;
- Check the fuel motor (see the maintenance table).

PERIODICALLY

- Check the pumping gaskets draft (if the product draws, replace gaskets);
- Clean the mobile parts from the varnish deposits (spray guns, etc.);
- Check the gun cables tightening, the wheel block;
- Check that the tubes and all the fittings are correctly locked.

N ROUTINE MAINTENANCE

CONTROL THE OIL LEVEL IN THE MOTOR

Always check that there is oil in the motor.

Check the motor oil every 100 working hours via the relevant measuring caps positioned on the bottom of the petrol motor. Top up if necessary.

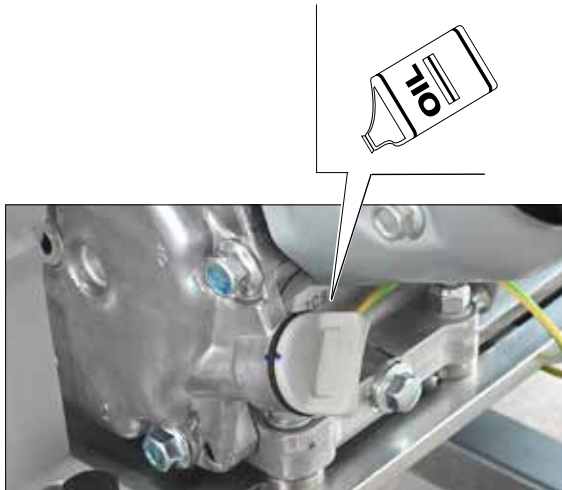


Fig. 1

TOP UP HYDRAULIC OIL

With each start up, check the hydraulic oil level by looking through the gauge (1) on the side of the; If necessary, use to top up the level:

AGIP DICREA 150 type hidraulic oil



Fig. 2

REPLACING HYDRAULIC OIL

After operating for 100 hours, replace the oil in the pump;

- Discharge the waste oil through the plug (4) fitted at the bottom of the pump casing.
- Clean the seals on the cap and replace it if worn.
- Clean the filter (6).

- Clean and, if necessary, replace the worn seals (6).
- Fill the pump with the recommended oil until it reaches the maximum level the plug (5).

AGIP DICREA 150 type hidraulic oil
0.7 LT

- Then, substitute the oil every 250 hours.



Fig. 3

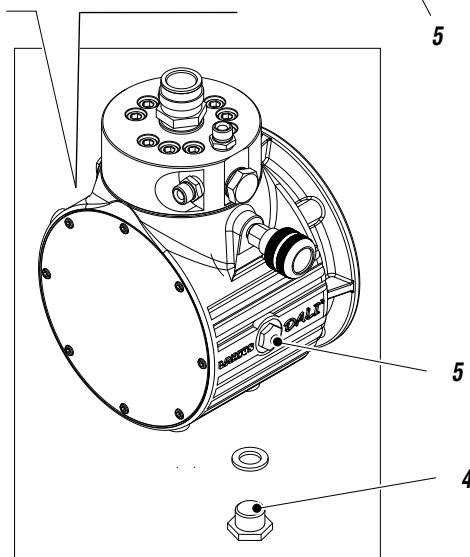


Fig. 4

0 CORRECT PROCEDURE OF DECOMPRESSION

- Press the switch (1) to "OFF" (0) to turn off the equipment.

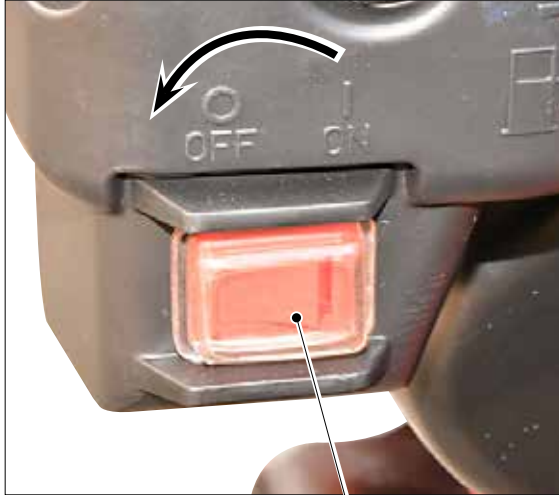


Fig. 1

- Reduce the pressure to the minimum (turn the pressure adjustment knob (02) anticlockwise).



Fig. 2

- Unlock the safety clamp (3).

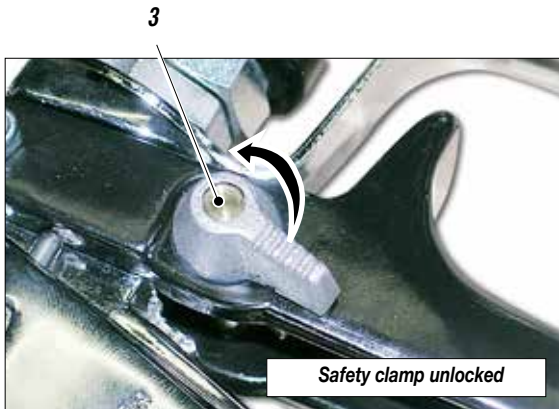


Fig. 3

- Point the gun (4) at the receptacle (5) used to collect the product and press the trigger to release the pressure. When completed, activate the safety catch again.

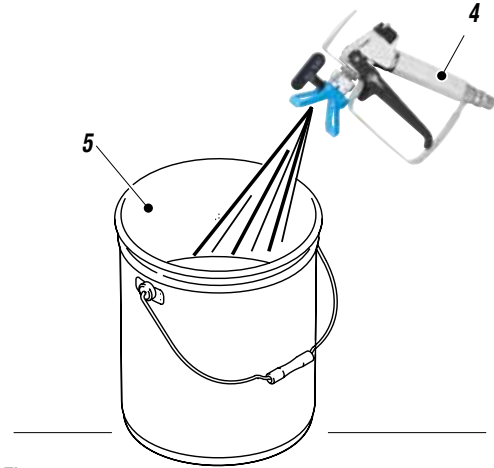


Fig. 4

- Open the recirculating-safety valve (6) to release the remaining pressure.

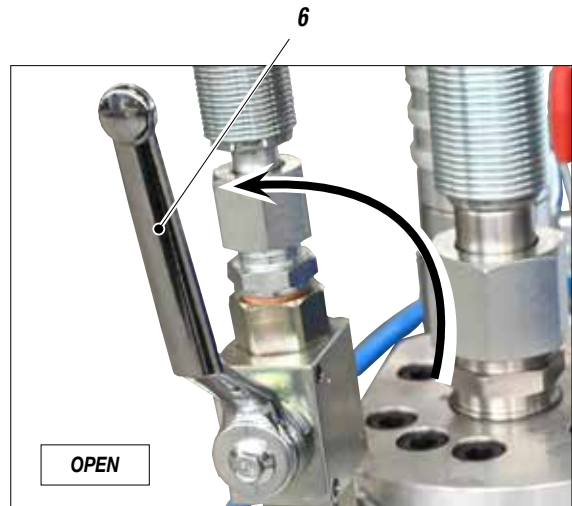


Fig. 5

WARNING:

If the equipment is still under pressure after performing the operations above described because of the nozzle or the flexible hose clogged, proceed as follows:



- Loosen very slowly the gun nozzle.
- Release the clamp.
- Point the gun at the container of the product and press the trigger to release pressure.
- Loosen very slowly the fitting of connection from the flexible hose to the gun.
- Clean or replace the flexible hose and the nozzle.

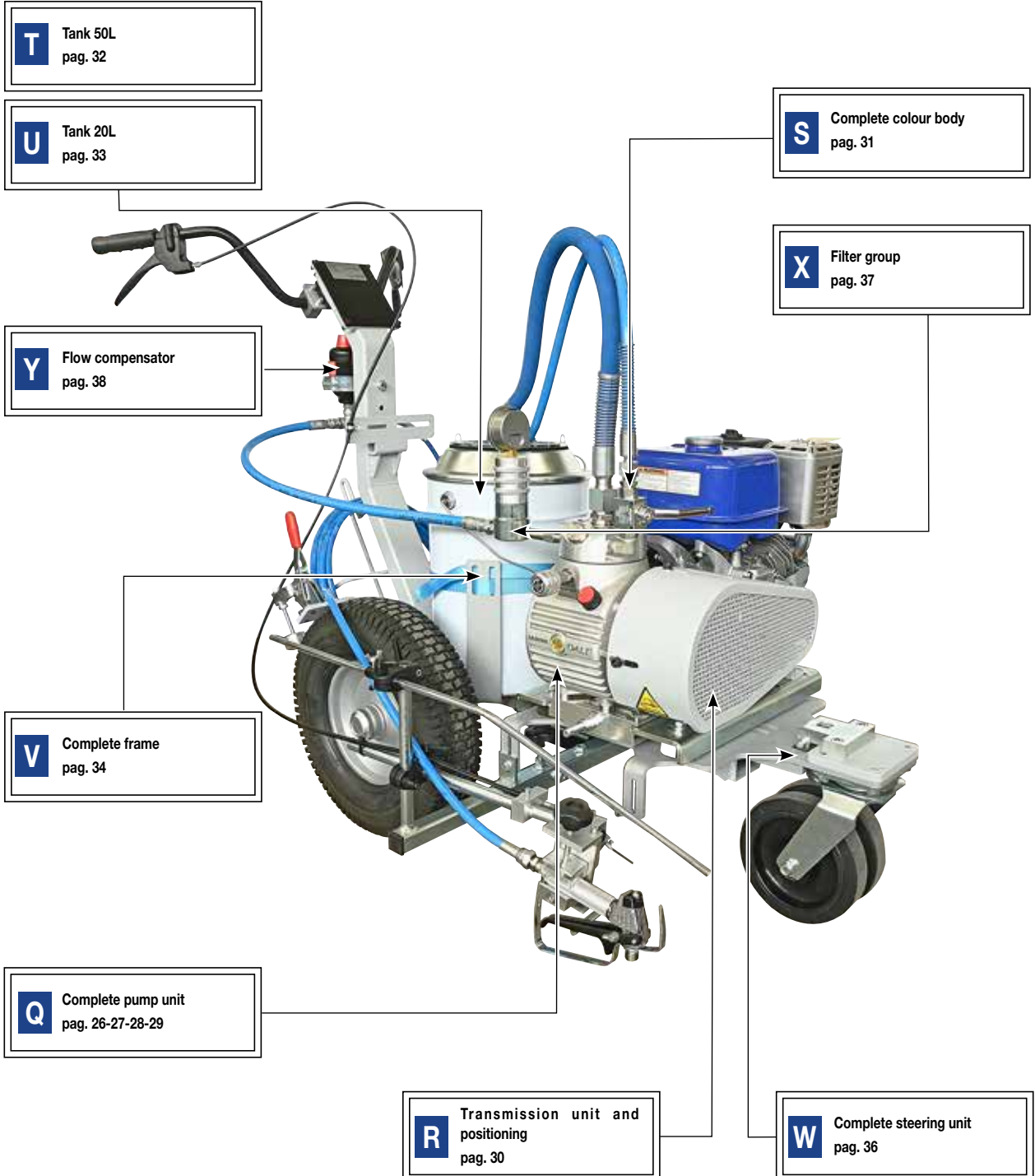
P PROBLEMS AND SOLUTIONS

Problem	Cause	Solution
The equipment does not start	The petrol manifold is closed;	Open the petrol manifold;
	Engine is out of gas;	Refill gas tank;
	Cold engine;	Use choke;
	Setting valve faulty pressure;	Verify and replace it, if necessary;
	The product is solidified inside the pump;	Open the drain valve to release pressure in the circuit and stop the machine. Disassemble the pumping group and the pressure transmitter and clean;
	Spark plug cable is disconnected or damaged;	Connect spark plug cable or replace spark plug;
The equipment does not suck the product	The line of material coming out of the pump is already under pressure;	Open the drain valve to release pressure in the circuit;
	The product is solidified inside the pump;	Open the drain valve to release pressure in the circuit and stop the machine. Disassemble the pumping group and clean;
	The equipment sucks air;	Check the suction pipe;
The equipment sucks but does not reach the pressure desired	Lack of product;	Add the product;
	The equipment sucks air;	Check the suction pipe;
	The drain valve is open;	Close the drain valve;
	Suction or delivery valve dirty;	Disassemble the colour group;
When pressing the trigger, the pressure lowers considerably	Nozzle too big or worn;	Replace it with a smaller one;
	The product is too dense;	Dilute the product, if possible;
	The filter of the gun-butt is too fine;	Replace it with a larger-mesh filter;
The pressure is normal but the product is not atomized.	The nozzle is partially clogged;	Clean or replace it;
	The product is too dense;	Dilute the product, if possible;
	The filter of the gun-butt is too fine;	Replace it with a larger-mesh filter;
The atomization is imperfect	The nozzle is worn;	Replace it;



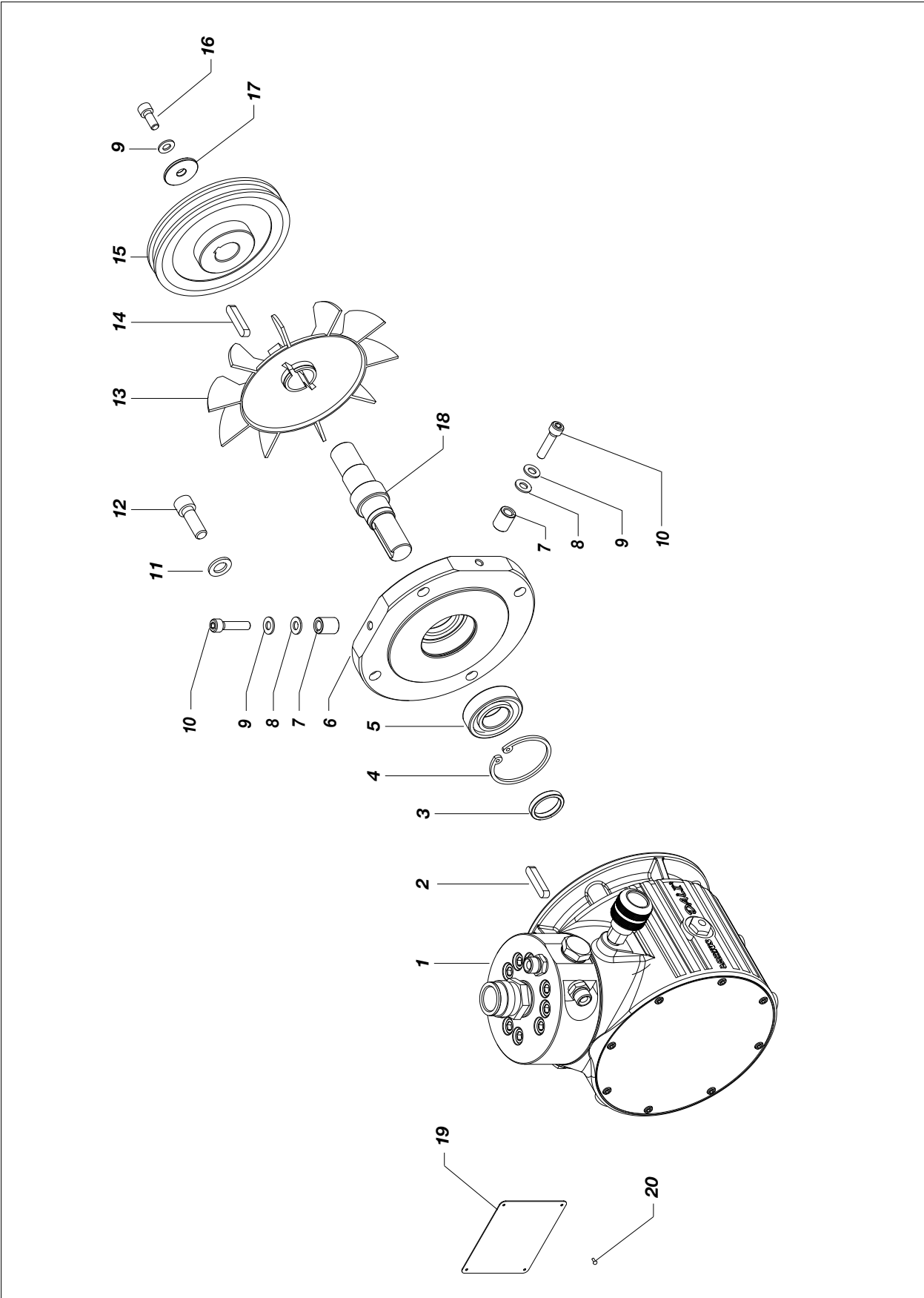
Always release the air compressed supply and unload the plant pressure before performing any check or replacement of pump parts (see "correct procedure of decompression").

SPARE PARTS



Q COMPLETE PUMP UNIT REF. 18306

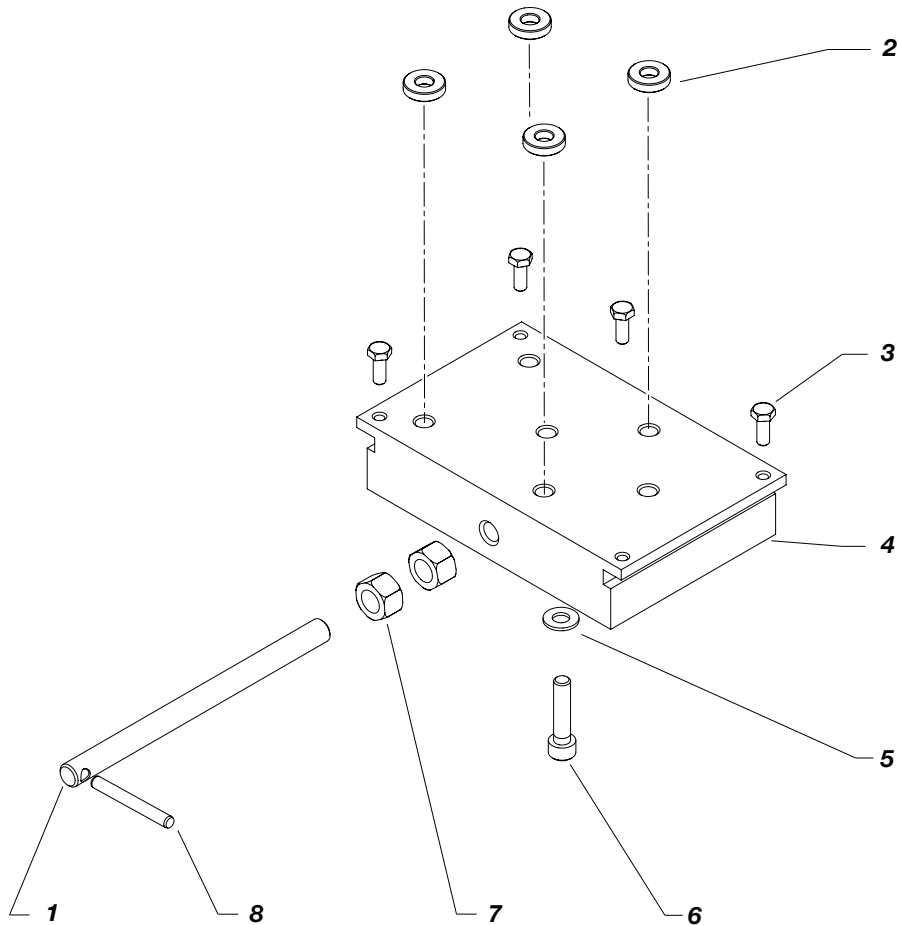
WARNING: Always indicate code and quantity for each part required.



Pos.	Code	Description
1	18970	Complete hydraulic bpdy
2	18919	Tab
3	18321	Spacer
4	18341	Ring
5	42255	Bearing
6	18314	Flange
7	18324	Spacer
8	32024	Washer
9	34009	Screw
10	81032	Screw

Pos.	Code	Description
11	95114	Washer
12	18171	Screw
13	18342	Fan
14	81014	Tab
15	18320	Pulleya
16	96031	Screw
17	95153	Washer
18	18316	Shaft
19	18357	Identification plate
20	34020	Rivet

SUPPORT UNIT PUMP



Pos.	Code	Description
1	18355	Rod
2	18326	Spacer
3	95062	Screw
4	18312	Slide

Pos.	Code	Description
5	34009	Screw
6	81032	Screw
7	81010	Nut
8	7238	Pin

Pos.	Code	Description
1	18946	Dowel
2	18901	Hydraulic body
3	32018	Cylinder liner
4	32033	Piston insert
5	33002/5	Nut
6	33002/3	Spring
7	18937	Oil distributor
8	33002/1	Diaphragm
9	18936	Diaphragm insert
10	31125	Bearing
11	81020	Elastic ring
12	18906	Bushing
13	32026	Bearing
14	32027	Cover
15	32029	Screw
16	18908	OR
17	18907	Cover
18	32041	Check nut
19	32019	Piston
20	32022	Spring
21	32021	Spring cap
22	32020	Elastic ring
23	96031	Screw
24	32024	Washer
25	32108	Plug
25V*	32108	Plug
26	33010	Washer
26V*	33010	Washer

Pos.	Code	Description
27	18910	Identification plate 220V 50Hz
	18931	Identification plate 110V 60Hz
	18357	Petrol identification plate
	18933	Identification plate 380V 50Hz
28	34020	Rivet
29	32007	Oil inspection window
30	32108	Plug
31	81012	Spline
32	18909/1	Corteco
33	18947	Eccentric flywheel
34	81009	Dowel
35	32150	Complete pressure regulation valve
36	32017	Knob
37	32017/2	Spring
38	32016	Retainer
39	32155	Valve body
40	32014	OR
41	32017/1C	Dowel
42	12475	Oil filter assembly
43	12461	Filter
44	32010	Copper washer
45	258	Filter sieve 60 MESH
46	32012	OR
47	32032	Screw
48	5059	Washer
49	18567	Screw
50	91915	Ball
51	32028	Washer (Typ Grower)

* Only in the vertical configuration

Spare supplied complete (*recommended*)

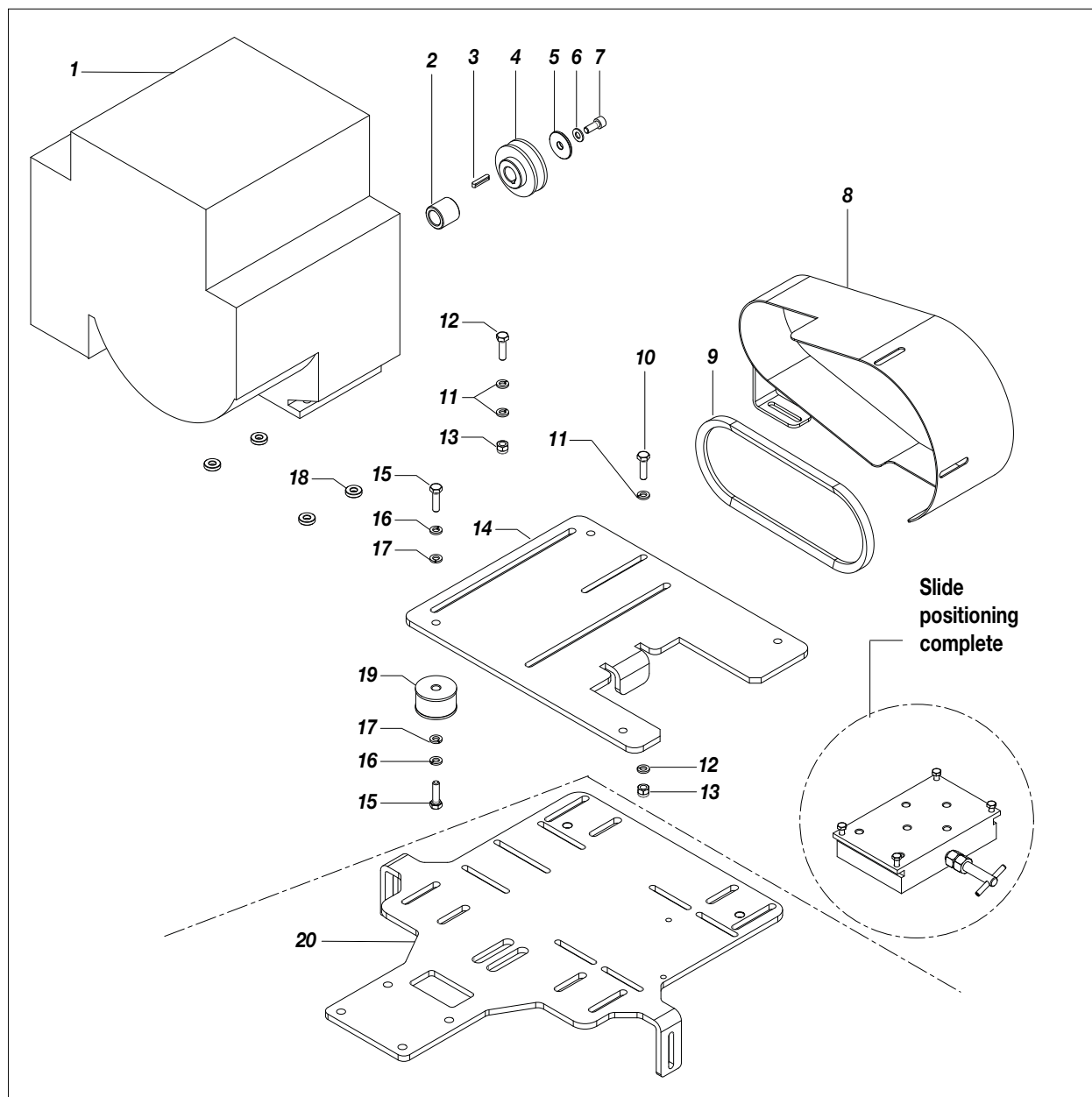
Pos.	Code	Description
2	18952	Hydraulic body
3		Cylinder liner
10		Bearing
11		Elastic ring
18		Check nut

Complete diaphragm

Pos.	Code	Description
5	18904	Nut
6		Spring
7		Oil distributor
8		Diaphragm

R TRANSMISSION UNIT AND POSITIONING RIF. 18358

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

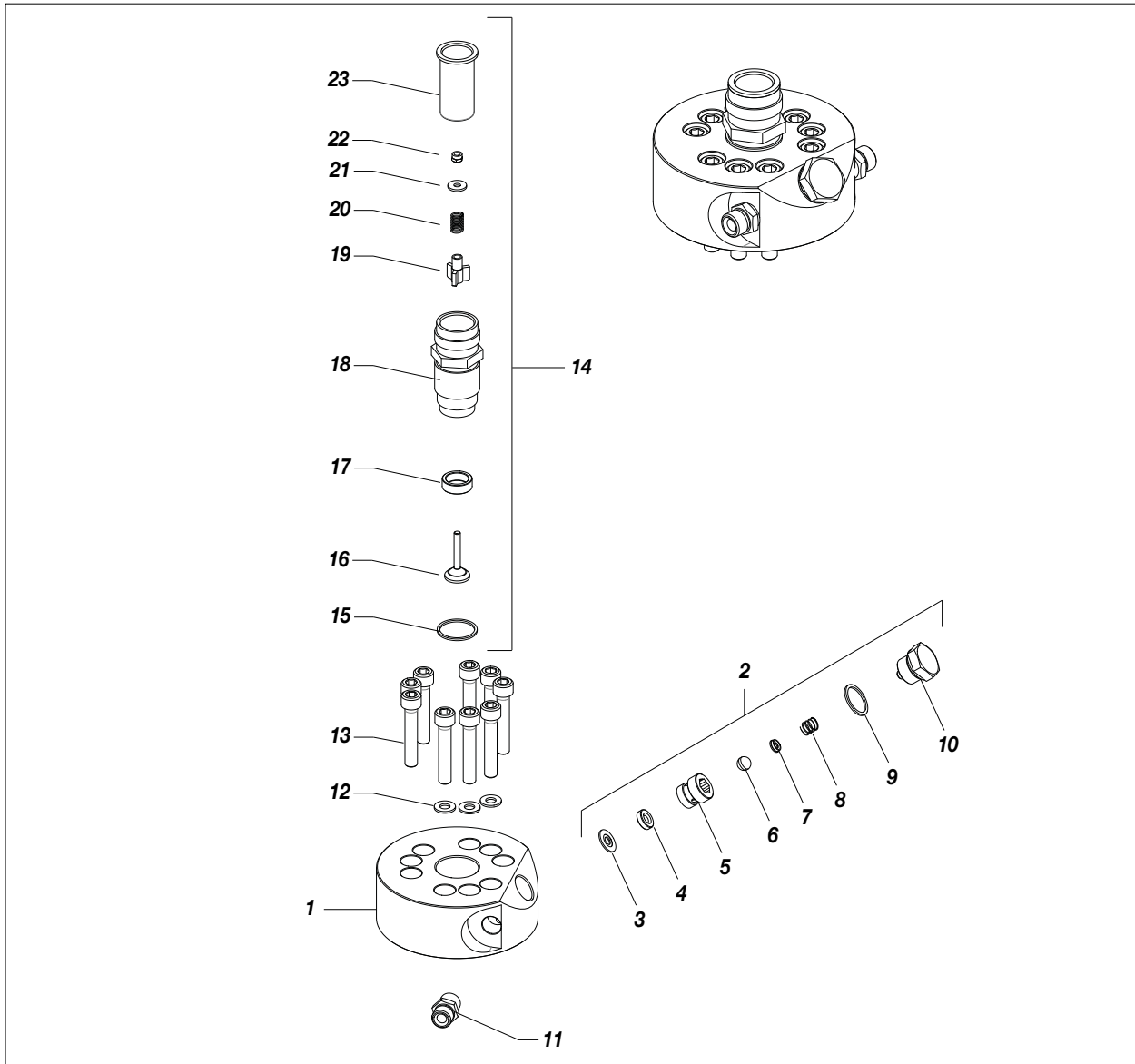


Pos.	Code	Description	Q. tà
1	18185	Motor	1
2	18325	Spacer	1
3	4244M	Tab	1
4	18318	Pulleya	1
5	32024/1	Washer	1
6	34009	Washer	1
7	18935	Screw	1
8	18317	Protective casing	1
9	4752	Belt transmission	1
10	901568	Screw	1

Pos.	Code	Description	Q. tà
11	32024	Washer	10
12	6151	Nut auto b.	4
13	3637	Washer	5
14	18311	Support plate	1
15	6130	Screw	8
16	95096	Washer	8
17	81033	Washer	8
18	18326	Spacers	4
19	20537	Anti-vibrator	4
20	4871	Mounting plate	1

S COMPLETE COLOUR BODY REF. 18940

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

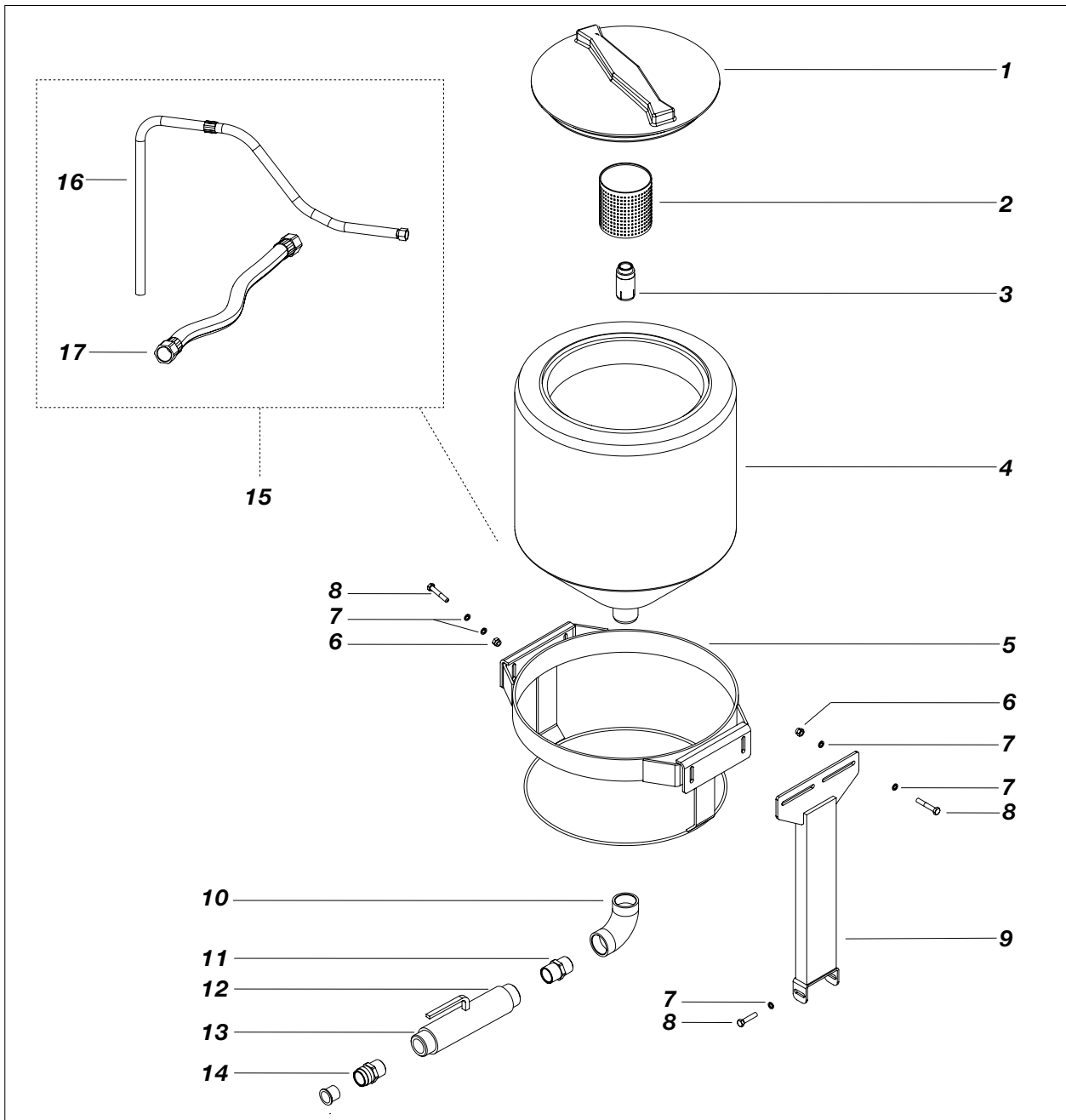


Pos.	Code	Description
1	18915	Vertical colour body
2	83033	Valve assembly
3	33026	Gasket
4	33027/2	Ball seat
5	33027/1	Valve housing
6	33028	Ball
7	33029	Sede Spring
8	53006/1	Spring
9	33031	Gas-ring
10	33032	Check nut
11	95284	Union
12	33005	Washer

Pos.	Code	Description
13	33004	Screw
14	33017	Complete valve body
15	33018	Gas-ring
16	33019	Conical shutter
17	33020/1	Spear valve seat
18	33020	Valve body
19	33021	Shutter guide
20	33022	Spring
21	33023	Washer
22	33024	Nut
23	96099	Seal sleeve

T TANK 50L RIF. 4895

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

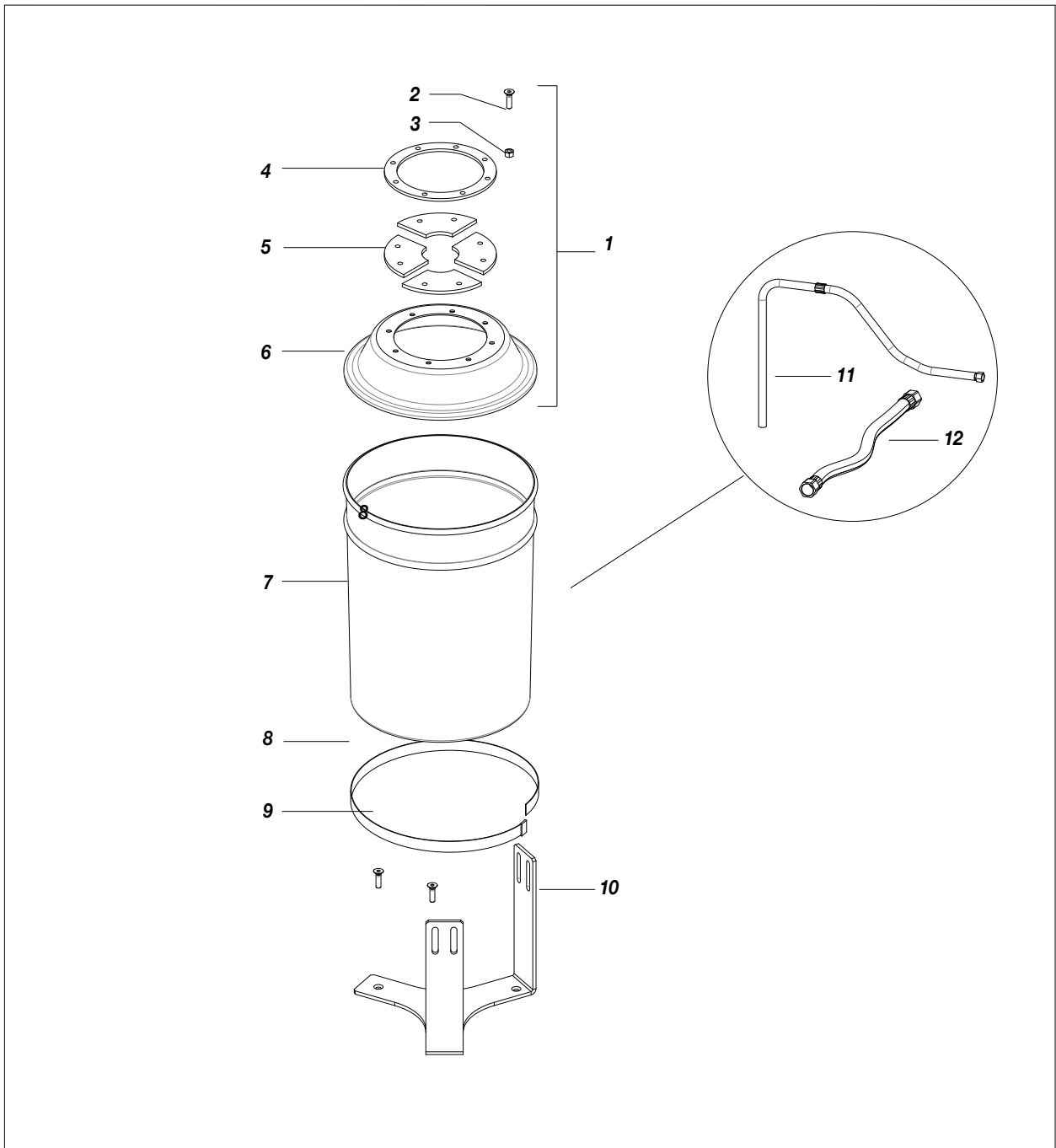


Pos.	Code	Description
1	18249/1	Cover
2	85014	Filter
3	18231	Union
4	18249	Tank
5	18246	Union
6	3637	Nut
7	96030	Washer
8	901568	Screw
9	4894	Sostegno

Pos.	Code	Description
10	18215	Elbow
11	8375	Union
12	34107	Adaptor
13	95032	Union
14	96099	Seal
15	4834	Complete suction+recirculation system
16	16609	Recirculation tube
17	18223/2	Suction tube

U TANK 20L RIF. 4890

Always indicate code and quantity for each part required.

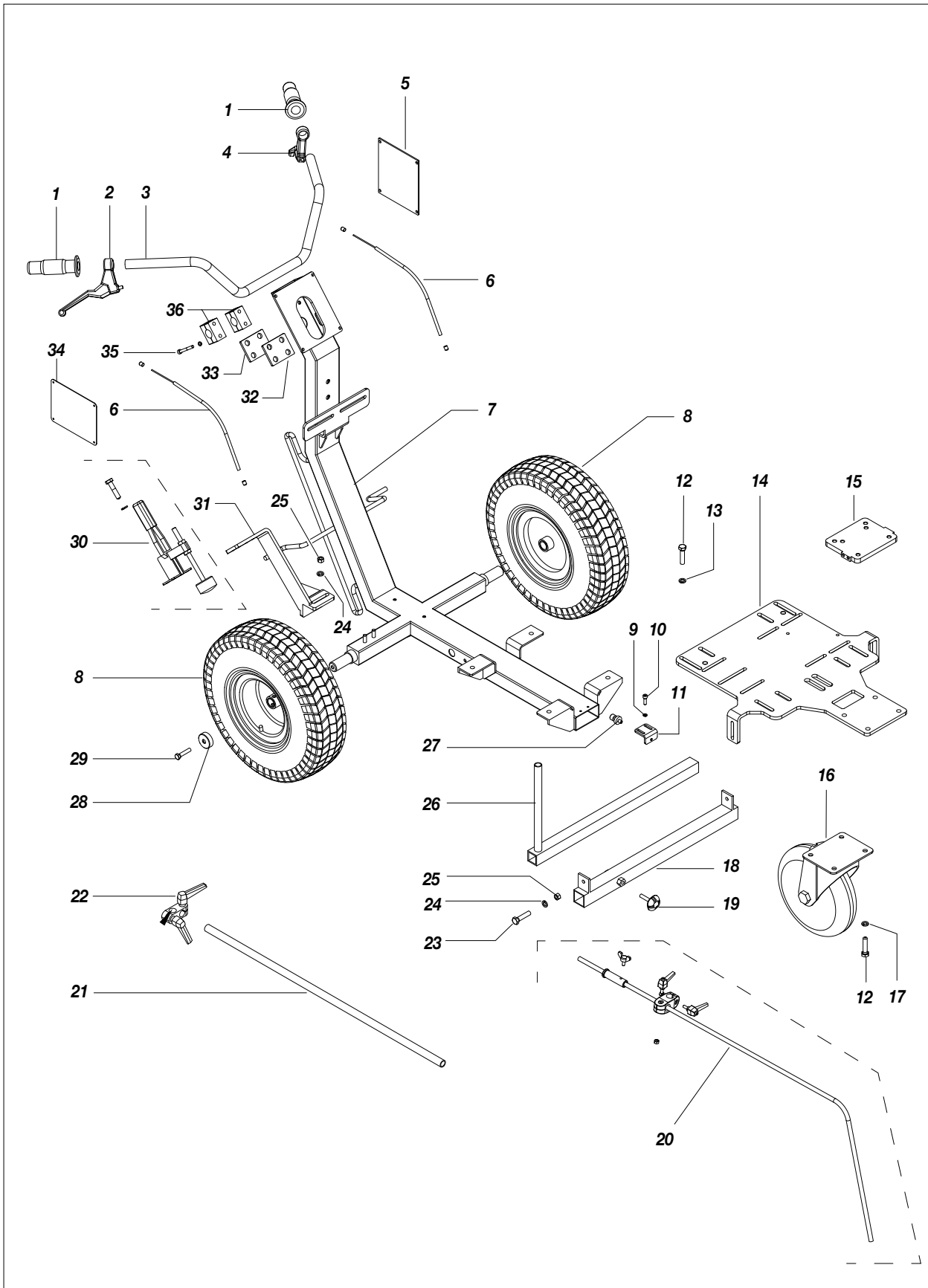


Pos.	Code	Description
1	4111	Complete cover
2	4314	Screw
3	52017	Nut
4	4308	Ring
5	4309	Rubber
6	4109	Cover

Pos.	Code	Description
7	4064	Tank
8	4274	Belt
9	69014	Screw
10	4250	Base
11	200346	Recirculation tube
12	200347	Suction tube

V COMPLETE FRAME 4874

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

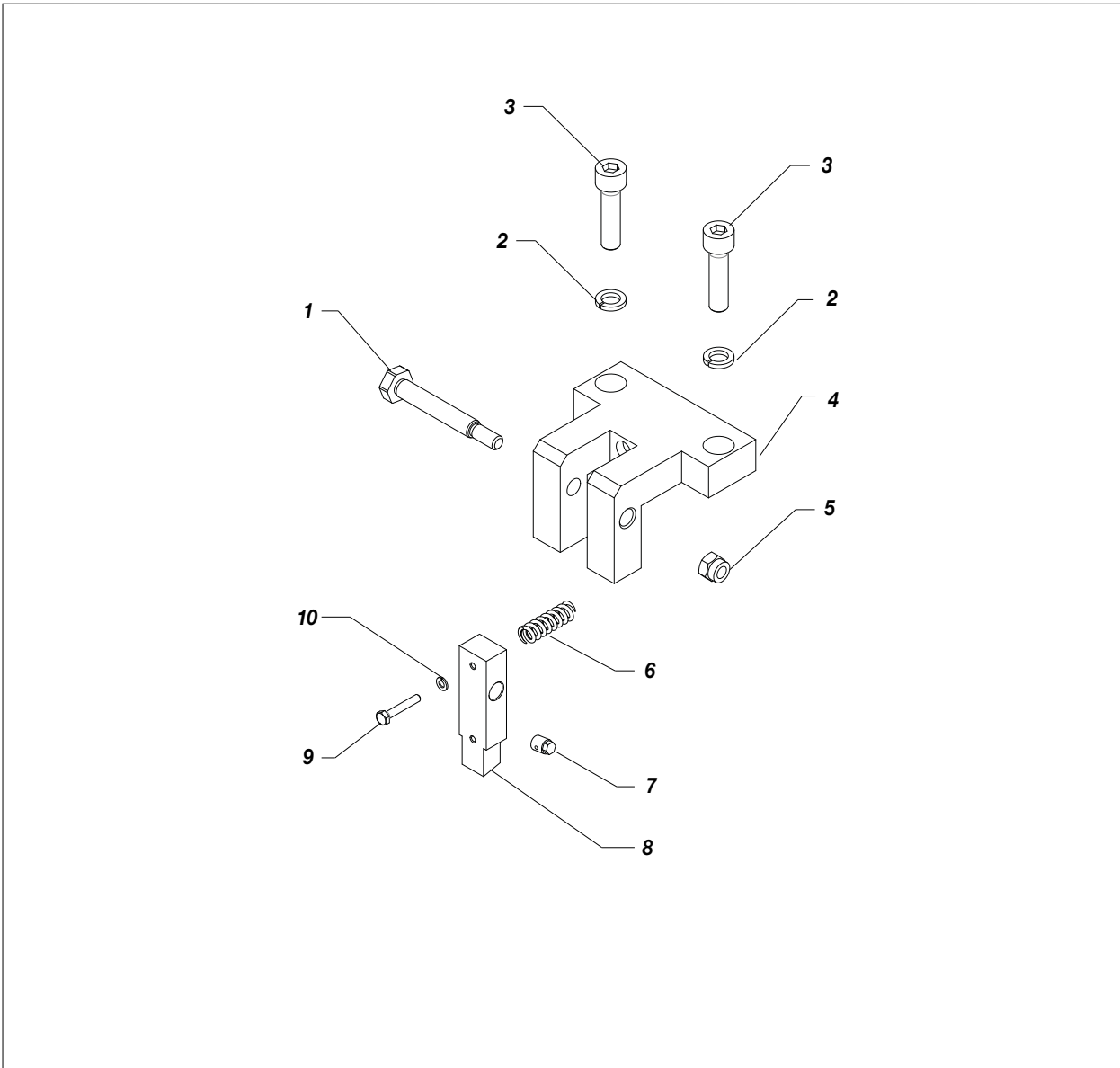


Pos.	Code	Description
1	4256	Handle
2	4464	Right lever
3	4865	Handlebar
4	4463	Left lever
5	4923	Cover
6	4873	Complete cable
7	4864	Frame
8	4461	Wheel
9	32028	Washer
10	32039	Screw
11	4870	Plating
12	4409	Screw
13	81033 + 95096	Washers
14	4871	Plate
15	4872	Plate
16	4260	Pivoting wheel
17	95096	Washer
18	4429/1	Telescopic unit
19	4490	Block

Pos.	Code	Description
20	26020	Pointer unit
21	4450	Rod
22	4869	Block
23	8385 +	Screw
	3204/1	Washer
24	34009	Washer
25	3637	Nut
26	4429	Gun support
27	4265	Wire stopper
28	4492 + 96030	Washers
29	8371	Screw
30	4868	Complete brake
31	4867	Brake support
32	4824	Plate
33	4825	Plate
34	8079	Technical data label
35	7043 +	Screw
	32005	Washer
36	4866	Block

W COMPLETE STEERING UNIT RIF. 4876

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

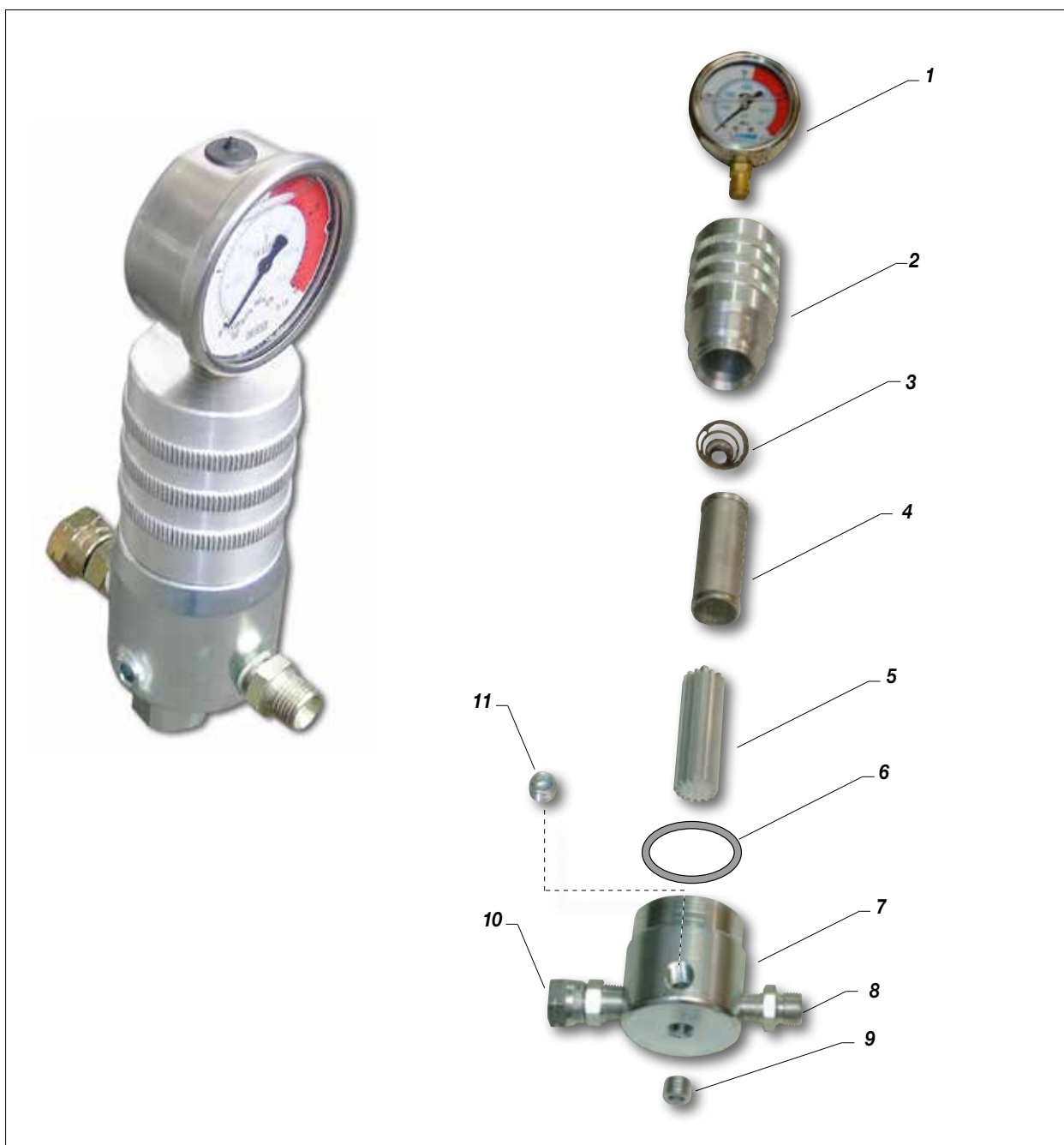


Pos.	Code	Description
1	4735	Screw
2	4737	Washer
3	330058	Screw
4	4737	Base
5	3637	Nut

Pos.	Code	Description
6	9238	Spring
7	4253	Wire stopper
8	4875	Threaded pin
9	4739	Screw
10	5339	Washer

X FILTER GROUP REF. 16200

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

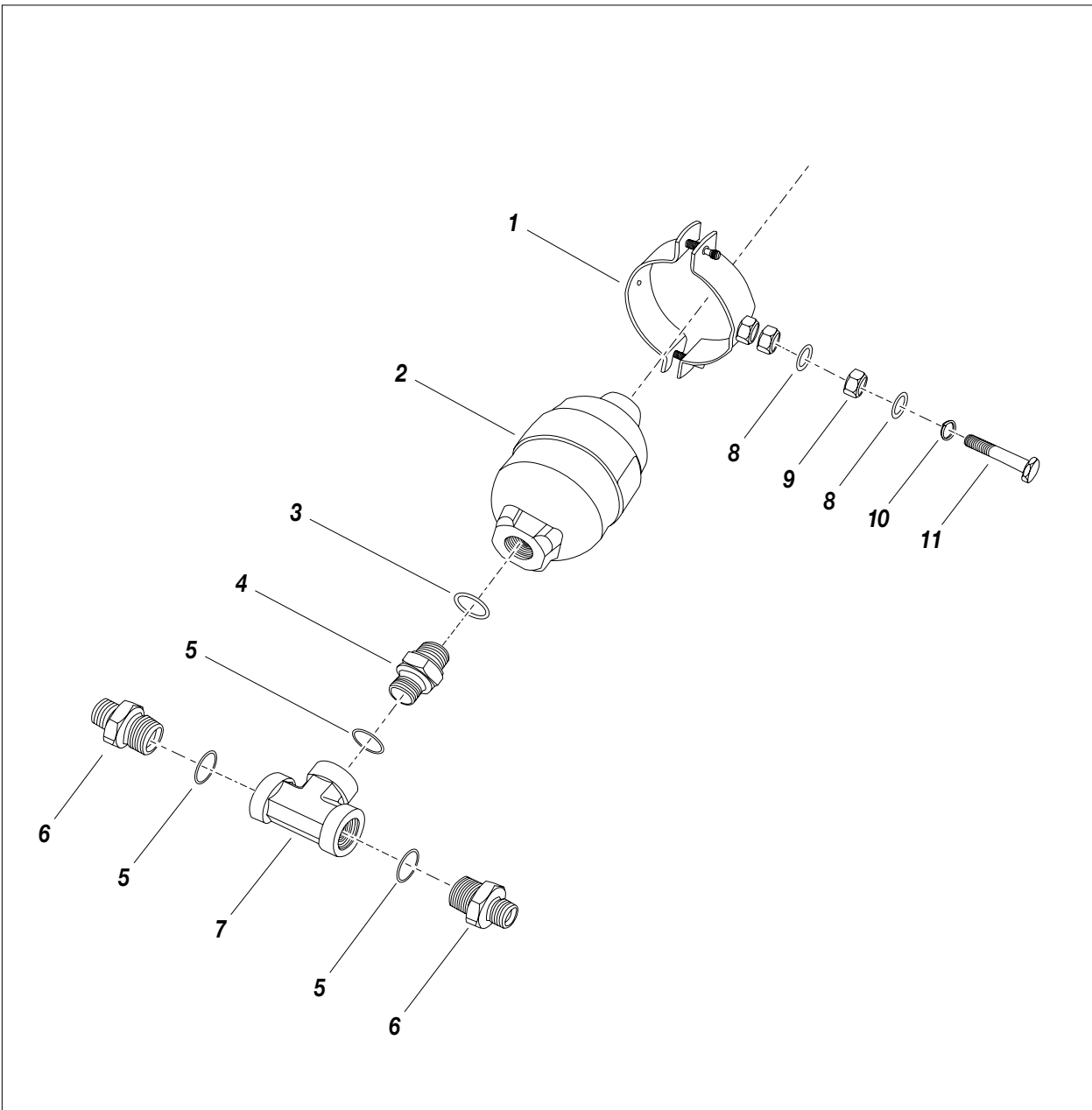


Pos.	Code	Description	Q. tà
1	33008	Manometer 0-400 bar	1
2	16201	Filter tank	1
3	96020	Spring	1
4	16205	Standard sieve 60	1
	16204	Standard sieve 100	1
	16203	Standard sieve 200	1
5	16202	Sieve support	1

Pos.	Code	Description	Q. tà
6	96203	Gasket	1
7	96204	Filter Base	1
8	96026	Union	1
9	96205	Dowel	1
10	3279	Articulated joint 3/8" Gas con.	1
11	96205	Dowel	1

Y FLOW COMPENSATOR

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



Pos.	Code	Description	Q.ty
1	4522	Collar	1
2	3372	Flow compensator	1
3	37180	Gasket	1
4	3283	Union	1
5	33010	Gasket	3
6	95231	Union	2

Pos.	Code	Description	Q.ty
7	8078/1	T fitting	1
8	81033	Washer	2
9	96080	Nut	1
10	95096	Washer (Typ Grower)	1
11	20539	Screw	1



CE DECLARATION OF CONFORMITY



Company



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Declares under his owns responsibility that the product:

DALI' LINER PLUS **Horizontal street marking**

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, 4 June 2020
Location / Date



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