

GUN

MIST-LESS "09"

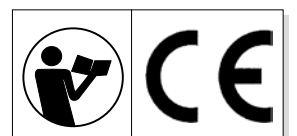


OPERATING AND MAINTENANCE INSTRUCTIONS

LARIUS

PAINTING EQUIPMENT

ENGLISH



LARIUS

MIST-LESS GUN








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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 **LARIUS S.R.L.** 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.

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.

	<p>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 gun when under the influence of drugs or alcohol. Do not modify the gun under any circumstances. Use products and solvents that are compatible with the various parts of the gun, 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.</p>
	<p>It indicates an accident risk or serious damage to equipment if this warning is not followed.</p>
 	<p>Report any risk of chemical reaction or explosion if this warning has not been given. 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. Do not spray before the guard has been placed over the nozzle and the trigger on the spray gun. Do not put your fingers in the spray gun nozzle. Once work has been completed, before carrying out any maintenance, complete the decompression procedure explained in this manual.</p>
	<p>It indicates important recommendations about disposal and recycling process of products in accordance with the environmental regulations.</p>
	<p>Report any danger of electric shock if the warning and presence of live electrical parts has not been indicated. Store in a dry place and do not expose to the rain. Check that the cables are in good condition. Switch off the equipment and discharge any electricity before cleaning or maintaining the equipment.</p>
	<p>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 earthed and that it complies with safety standards.</p>
   	<p>FIRE AND EXPLOSION HAZARD Solvent and paint fumes in work area can ignite or explode. To help prevent fire and explosion:</p> <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. <p>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.</p>

	<p>INJECTION HAZARD High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. To help prevent injection, always:</p> <ul style="list-style-type: none"> - Engage trigger lock when not spraying. - Do not put your hand over the spray tip. Do not stop or deflect leaks with your hand, body or other. - Do not point gun at anyone or at any part of the body. - 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 - 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>
	<p>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.</p>

A WORKING PRINCIPLE

MIST-LESS painting combines the qualities of airless technology with those of low-pressure application providing superior quality finishing with less material waste.

The **MIST-LESS** sprayguns allows:

- 15-35% product saving
- Overspray reduced to the minimum
- High quality finishing

The **MIST-LESS** sprayguns are equipped with a self-cleaning nozzle with the following advantages:

- Reduced maintenance
- Long working life
- The nozzle does not have to be removed for cleaning, but simply turned 180°, based on the same principle as Fast-Clean.



B TECHNICAL DATA

English

MIST-LESS GUN	MANUAL Version
MAX. OPERATING PRESSURE	140 bar (2030 psi)
AIR INLET	Gj 1/4" (M)
INLET PORT SIZE	M16x1.5 (M)*
	STANDARD Gj 1/4" (M)
	1/4" NPS (M)*
WEIGHT	590g

*Available on request

PARTS OF THE SPRAYGUN IN CONTACT WITH THE MATERIAL Stainless steel, AISI 420B, PTFE, Aluminium, Inox AISI 303, Tungsten carbide

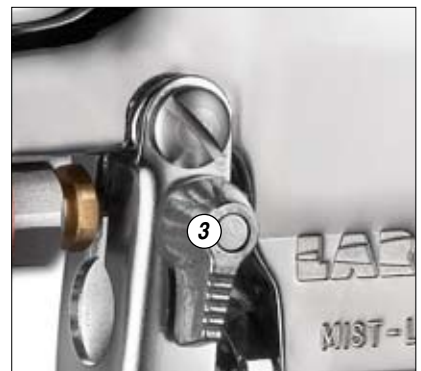
MIST-LESS GUN	AUTOMATIC Version
MAX. OPERATING PRESSURE	140 bar (2030 psi)
ATOMIZATION AIR INLET	ø 8
OPENING CONTROL AIR INLET	ø 6
INLET PORT SIZE	Gj 1/4" (M)
WEIGHT	550 g 2002A
	600 g 2002PLC

PARTS OF THE SPRAYGUN IN CONTACT WITH THE MATERIAL Stainless steel, AISI 420B, PTFE, Aluminium, Inox AISI 303, Tungsten carbide



MIST-LESS GUN	
WIDTH	(A) ~155 mm
HEIGHT	(B) ~225 mm

C DESCRIPTION OF THE EQUIPMENT



POS.	Description
1	Nozzle
2	Closing ring nut
3	Trigger lock
4	Gun body

POS.	Description
5	Spraygun air adjustment screw
6	Spraygun air inlet fitting
7	Trigger
8	Material inlet fitting

C TRANSPORT AND UNPACKING

- 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 **LARIUS** 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 **LARIUS**.



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

D 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.



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 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.



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.

- WHENEVER YOU STOP DISPENSING, EVEN FOR A MOMENT, ALWAYS SET THE GUN TRIGGER LOCK. FULLY RELEASE THE TRIGGER AND ROTATE THE TRIGGER LOCK FORWARD (*see page 9*).
- USE EXTREME CAUTION WHEN CLEANING OR CHANGING THE FLUID NOZZLE. IF THE NOZZLE CLOGS WHILE DISPENSING, FULLY RELEASE THE TRIGGER IMMEDIATELY. ALWAYS FOLLOW THE PRESSURE RELIEF PROCEDURE, BELOW, BEFORE WIPING OFF BUILD-UP AROUND THE NOZZLE OR REMOVING THE NOZZLE TO CLEAN IT.
- DO NOT DIRECT THE SPRAYGUN UPWARDS DURING CLEANING.



- DO NOT RUB THE SPRAYGUN WITH CLOTHS SOAKED IN SOLVENT.



- DO NOT IMMERSE THE SPRAYGUN IN SOLVENT.



- DO NOT USE METAL TOOLS TO CLEAN THE NOZZLES, SINCE THEY MAY BE SCRATCHED AND CAUSE UNEVEN SPRAYING.



E FLUID INJECTION HAZARD



This is a high pressure dispensing gun. Fluid dispensed under high pressure could be injected through your skin and into your body. This could cause extremely serious injury, including the need for amputation. Also, fluid injected or splashed into the eyes or on the skin can cause serious damage.

	Never put hand or fingers over the nozzle.
	Never wipe off build-up around the fluid nozzle until pressure is fully relieved and the gun trigger lock is engaged.
	Never try to stop or deflect leaks with your hand or body.

Always follow the Pressure Relief Procedure, at right, before cleaning or removing the fluid nozzle or servicing any system equipment.

MEDICAL ALERT – FLUID INJECTION WOUNDS

If any fluid appears to penetrate your skin, get EMERGENCY MEDICAL CARE AT ONCE. DO NOT TREAT AS A SIMPLE CUT. Tell the doctor exactly what fluid was injected

	Injection into the skin is a traumatic injury. It is important to treat the injury surgically as soon as possible. Do not delay treatment to research toxicity. Toxicity is a concern with some exotic materials injected directly into the blood stream. Consultation with a plastic surgeon may be advisable.
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F PRESSURE RELIEF PROCEDURE

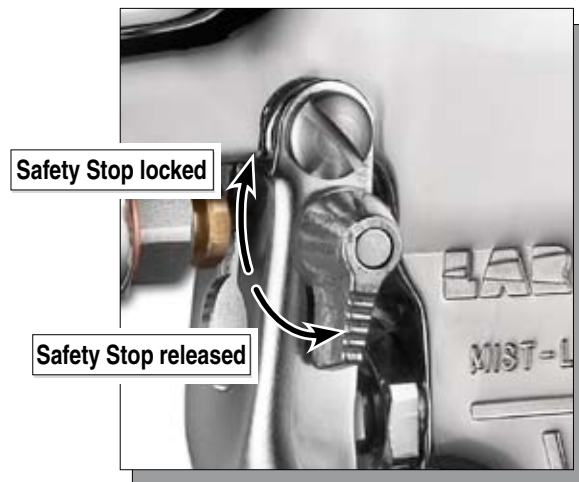
To reduce the risk of serious injury, including fluid injection, splashing in the eyes or on skin, always follow this procedure whenever the dispensing equipment is shut off, when checking or servicing any part of system, when installing, cleaning or changing nozzles and whenever you stop dispensing.

- Fully release the gun trigger and set the gun trigger lock by rotating the trigger lock forward.


- Shut off the supply pump.
- Hold a metal part of the gun firmly to the side of a grounded metal waste container.



- Disengage the trigger lock by rotating the trigger lock backward. Trigger the gun to relieve fluid pressure.




- Fully release the gun trigger and set the gun trigger lock by rotating the trigger lock forward.
- Open the pump drain valve to help relieve fluid pressure in the pump, hose, and gun. Have a container ready into which to drain the material, then pull the trigger to release the pressure.
- Leave the drain valve open until you are ready to dispense again.

 If you suspect that the nozzle or hose is clogged or that pressure has not been fully relieved, after following the steps above, very slowly loosen the hose end coupling and relieve pressure gradually; then loosen completely. Now clear the nozzle or hose obstruction.


- Tighten all fluid connections securely before each use. High pressure fluid can dislodge a loose coupling or allow high pressure fluid to be emitted from the coupling
- Never use a damaged hose. If any of these conditions exist, replace the hose immediately.


H EQUIPMENT MISUSE HAZARD

Any misuse of the dispensing equipment or accessories, such as overpressurizing, modifying parts, using incompatible chemicals and fluids, or using worn or damaged parts, can cause them to rupture and result in serious injury, including fluid injection and splashing fluid in the eyes or on the skin, or in fire, explosion or property damage.

 Before each use, check the entire hose for cuts, leaks, abrasion, bulging cover, or damage or movement of the hose couplings.


- Do not try to recouple high pressure hose or mend it with tape or any other device. A repaired hose cannot contain the high pressure fluid.
- Handle and route hoses carefully.

 The maximum working pressure of the gun is 140 bar. Do not exceed the maximum Working pressure.

 Do not pull on hoses to move equipment. Do not use fluids or solvents which are not compatible with the inner tube and cover of the hose. Do not expose hose to extreme temperatures; check with your hose supplier to determine temperature tolerance.

Be sure that all dispensing equipment and accessories are properly rated to withstand the pressures developed by your system. Never exceed the maximum working pressure of your gun model.

Proper hose grounding continuity is essential to maintaining a grounded dispensing system. Check the electrical resistance of your fluid hoses at least once a week. If your hose does not have a tag on it which specifies the maximum electrical resistance, contact the hose supplier or manufacturer for the maximum resistance limits. Use a resistance meter in the appropriate range for your hose to check the resistance. If the resistance exceeds the recommended limits, replace it immediately. An ungrounded or poorly grounded fluid hose can make your system hazardous.

 Be sure all fluids and solvents used are chemically compatible with the "WETTED PARTS" shown in the TECHNICAL DATA. Always read the fluid and solvent manufacturer's literature before using any fluid or solvents in your system.

L FIRE OR EXPLOSION HAZARD

I HOSE SAFETY

High pressure fluid in the hoses can be very dangerous. If the hose develops a leak, split or rupture due to any kind of wear, damage or misuse, the high pressure fluid emitted from it can cause a fluid injection injury or other serious injury or property damage.

Static electricity is created by the flow of fluid through the pump and hose. If every part of the equipment is not properly grounded, sparking may occur, and the system may become hazardous. Sparks may also occur when plugging in or unplugging a power supply cord. Sparks can ignite fumes from solvents and the fluid being dispensed, dust particles and other flammable substances, whether you are pumping indoors or outdoors, and cause a fire or explosion, serious injury, and property damage.



Do not plug in or unplug any power supply cords in the dispensing area when there is any chance of igniting fumes still in the air.



If you experience any static sparking or feel even a slight shock while using this equipment, **STOP DISPENSING IMMEDIATELY**. Check for proper grounding of the entire system. Do not use the system again until the cause of the problem is identified and corrected.



GROUNDING

To reduce the risk of static sparking, ground the pump and all other equipment used or located in the dispensing area. Check your local electrical code for detailed grounding instructions for your area and type of equipment and be sure to ground all of the following equipment.

- Pump: ground the pump by connecting a grounding wire from the pump's grounding lug to a true earth ground.
- Air compressor or hydraulic power supply: ground according to local code and manufacturer's recommendations.
- Fluid hoses: use only grounded hoses with a maximum of 150 mt. Combined hose length to ensure grounding continuity. Refer to hose grounding continuity, above.
- Flo-gun: obtain grounding through connection a properly grounded fluid hose and pump.
- Fluid supply container: according to local code.
- All solvent pails used when flushing: according to local code. Use only metal pails. Do not place the pail on a non-conductive surface, such as paper or cardboard, which interrupts the grounding continuity.
- To maintain grounding continuity when flushing or relieving pressure always hold a metal part of the gun firmly to the side of a grounded metal pail, then trigger the gun.



Before flushing, be sure the entire system and flushing pails are properly grounded. Refer to **GROUNDING**, above.



Always use the lowest possible fluid pressure, and maintain firm metal-to-metal contact between the gun and grounded metal pail during flushing to reduce the risk of fluid injection injury, static sparking and splashing.

M MOVING PART HAZARD

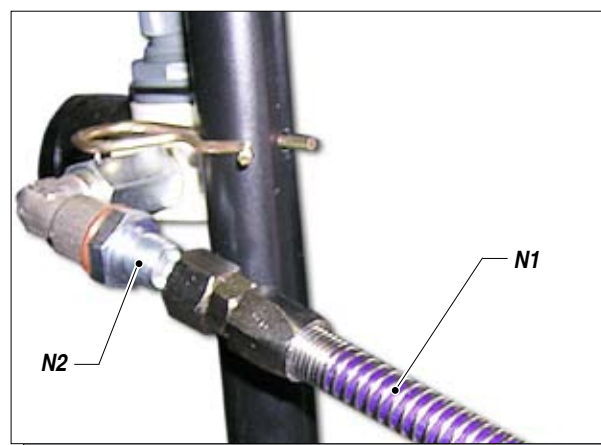
Moving parts can pinch or amputate your fingers or other body parts. Keep clear of moving parts when starting or operating your system.

Before checking or servicing the gun, pump, or any other system component follow the **PRESSURE RELIEF PROCEDURE** (see page 8) to prevent the pump from starting accidentally.

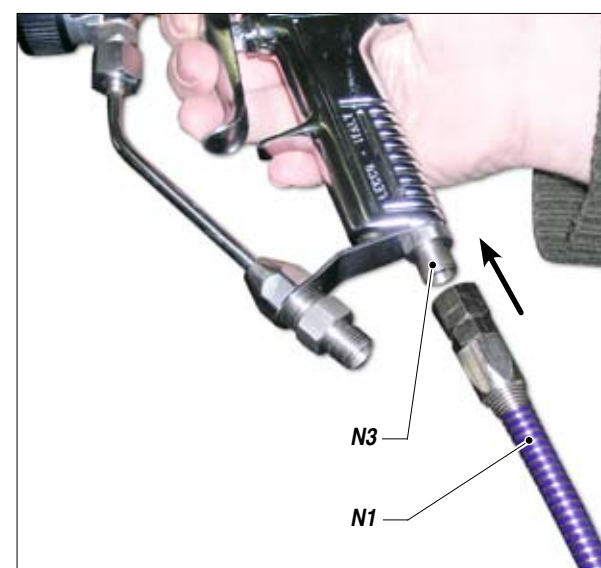
N SETTING-UP

CONNECTION OF THE FLEXIBLE HOSE TO THE GUN

- Connect the flexible hose (N1) to the gun air pressure gauge coupling (N2) of the pump.

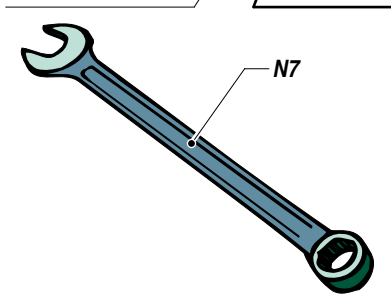
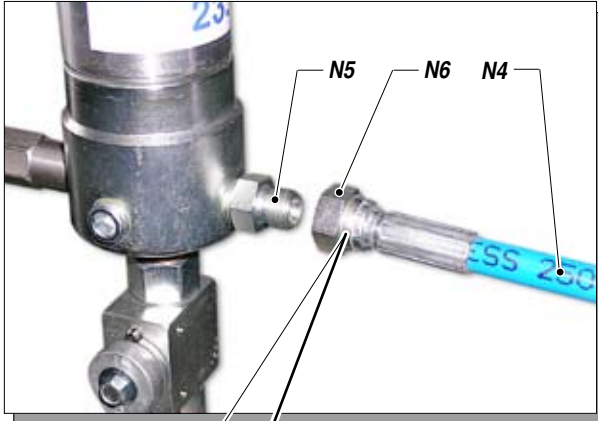


- Connect the flexible hose (N1) to the gun coupling (N3).

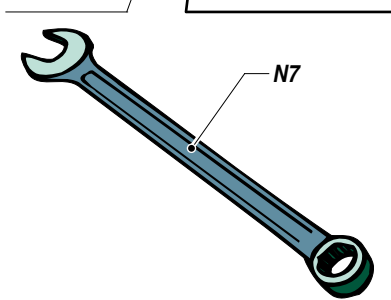
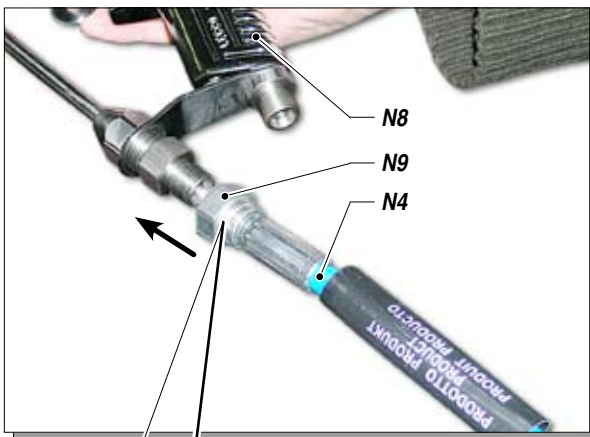


CONNECTING THE PRODUCT DELIVERY HOSE

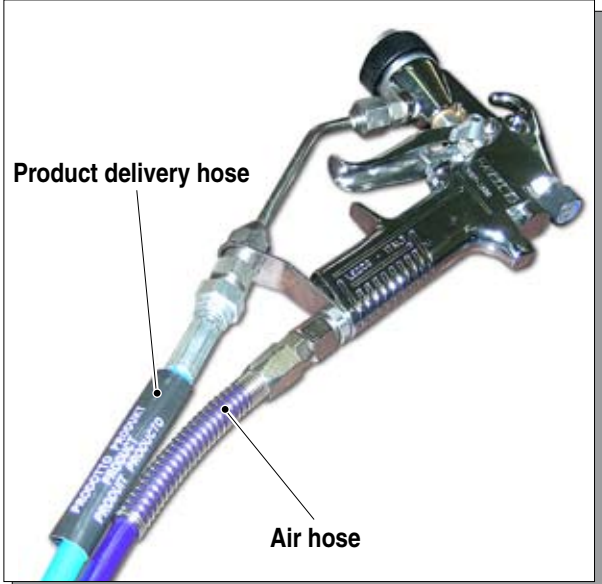
- Connect the flexible product delivery hose (N4) to the delivery coupling (N5) of the pump. Lock the nut (N6) using the dedicated wrench (N7).



- Connect the flexible product delivery hose (N4) to the gun (N8). Lock the nut (N6) using the dedicated wrench (N7).



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.



0 OPERATION

Fluid flow rate is controlled at the pump. Adjust the pump pressure to obtain the desired flow rate; use lowest pressure necessary. The pressure adjustment will depend on hose length, the viscosity of the fluid, and the nozzle size. To dispense fluid with the gun, start the supply pump, disengage the trigger lock, and squeeze the trigger in all the way. Fluid flow begins with the slightest pressure and stops when trigger is released.




To reduce the risk of serious injury, including fluid injection or splashing in the eyes or on skin, always follow the **PRESSURE RELIEF PROCEDURE** (on page 8) whenever the dispensing equipment is shut off, when checking or servicing any part of system, when installing or changing nozzles and whenever you stop dispensing. Always engage the trigger lock when the flo-gun is not in use to prevent accidental triggering of the gun.

STARTING THE SPRAYING OPERATIONS

- Use the tooling after performing all the **SETTING UP** operations above described.



- At this point, the product will flow until reaching the gun and you can start working.

	<p>Before starting the pump it is important that a small amount of atomizing air is sent to the spraygun.</p>
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ADJUSTING - SPRAYING NOZZLE

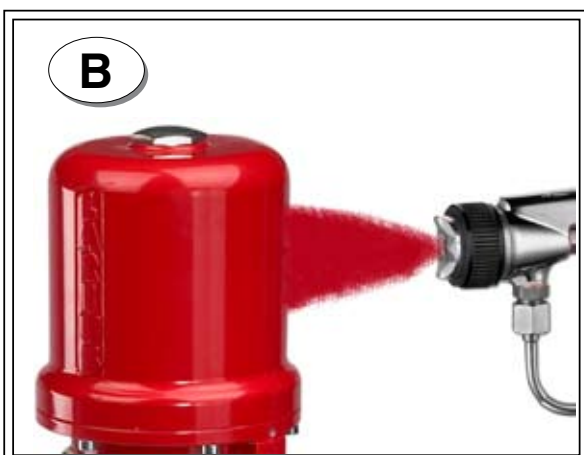
- The spraying nozzle can be adjusted according to need by setting the pump operating pressure and the atomization pressure until reaching the required operating conditions.
- For proper spraying of the product, the air and paint coming out of the gun must leave a spraying trace without tails.

- If spraying is incorrect, adjust the amount of air.

	<p>NEVER direct the gun towards yourself or others.</p>
	<p>Contact with the jet of paint may cause serious injury. In case of injury, immediately see a doctor specifying the product injected.</p>

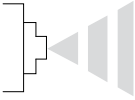
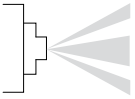



Trace of spraying a fluid at low-pressure without using air.



Symmetrical trace of spraying a fluid using air. No tail-end is formed.

P PROBLEMS AND SOLUTIONS

Problem	Cause	Solution
<ul style="list-style-type: none"> Pulling the trigger, the pressure drops considerably 	<ul style="list-style-type: none"> The nozzle is too large or worn; The product is too dense; The mesh of the filter in the gun is too fine; 	<ul style="list-style-type: none"> Replace with a smaller one; If possible, dilute the product; Replace with a filter with larger mesh;
<ul style="list-style-type: none"> Material flows from the cap 	<ul style="list-style-type: none"> Material leakage from the sealing O-ring; 	<ul style="list-style-type: none"> Replace the O-ring;
<ul style="list-style-type: none"> Fluid leakage from the gun 	<ul style="list-style-type: none"> Gaskets worn; Product viscosity too low; Fluid rod damaged or worn; 	<ul style="list-style-type: none"> Replace the gaskets; Change to a more suitable product; Check and replace if necessary;
<ul style="list-style-type: none"> Fluid in air passages 	<ul style="list-style-type: none"> Leaks from the gaskets; 	<ul style="list-style-type: none"> Replace the gaskets;
<ul style="list-style-type: none"> Fluid flow stops or it comes out slowly 	<ul style="list-style-type: none"> Nozzle dirty or clogged; 	<ul style="list-style-type: none"> Clean or replace it;
<ul style="list-style-type: none"> Material leaks from the gasket pressing screw 	<ul style="list-style-type: none"> Gasket loosened or worn; 	<ul style="list-style-type: none"> Tighten the gasket pressing screw or change the gasket;
<ul style="list-style-type: none"> Atomization imperfect 	<ul style="list-style-type: none"> Nozzle worn; 	<ul style="list-style-type: none"> Replace it;
<ul style="list-style-type: none"> Spraying jet irregular 	<ul style="list-style-type: none"> Insufficient fluid feed; Air in the paint feed line; Nozzle worn; 	<ul style="list-style-type: none"> Adjust the fluid outflow or fill the fluid feed can; Check and bleed the paint line air; Replace it;
<ul style="list-style-type: none"> Spraying jet streaky 	<ul style="list-style-type: none"> Nozzle partially clogged; 	<ul style="list-style-type: none"> Clean or replace it;
<ul style="list-style-type: none"> Uneven paint spreading 	<ul style="list-style-type: none"> Nozzle worn or partially clogged; 	<ul style="list-style-type: none"> Clean or replace it;
<ul style="list-style-type: none"> Pulling the trigger, the fluid does not flow out 	<ul style="list-style-type: none"> Nozzle clogged; Filter clogged or worn. 	<ul style="list-style-type: none"> Clean or replace it; Clean or replace it.

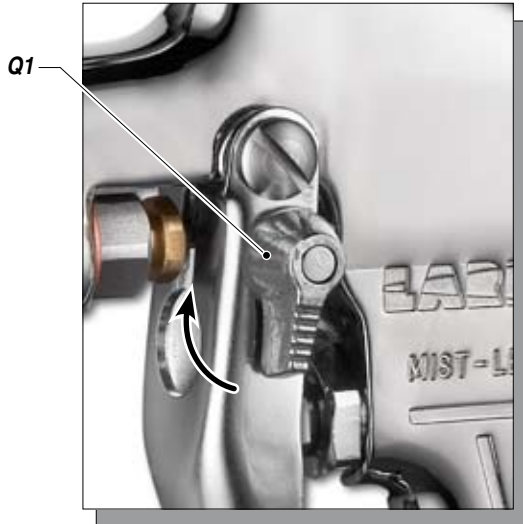


Incorrect spreading of the product is caused by incorrect adjustment between the air and the fluid.

Q TRIGGER LOCK

TRIGGER LOCK ENGAGED

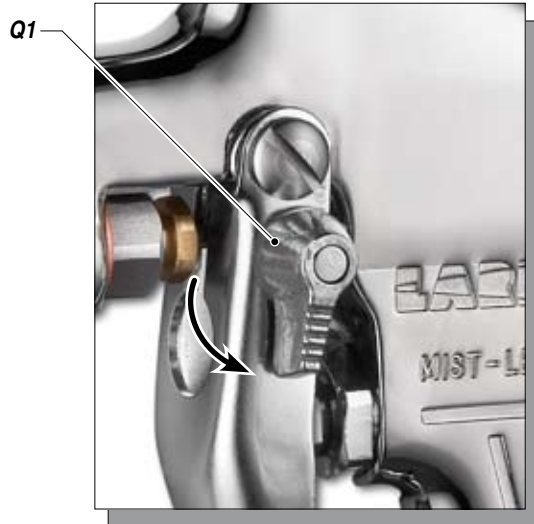
To engage the trigger lock, release the trigger and rotate the trigger lock (Q1) forward.



Trigger locked

TRIGGER LOCK DISENGAGED


To disengage the trigger lock (Q1), rotate the trigger lock backward.



Trigger released



R ROUTINE MAINTENANCE

	<p>To reduce the risk of serious injury, including fluid injection or splashing the eyes or on the skin:</p> <ul style="list-style-type: none"> • Always follow the PRESSURE RELIEF PROCEDURE (see page 8) before checking, adjusting, cleaning or repairing the gun or any part of the system. • After adjusting or servicing the gun, if fluid does flow, the gun is not assembled properly or the trigger lock is damaged, reassembled the gun or return it to your nearest distributor. Do not use the gun until the problem is corrected. • When removing the gun from the hose, be sure to hold the inlet fitting securely to avoid loosening from the gun body.
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INSPECTING THE VALVE FOR OBSTRUCTIONS OR DAMAGE

PLEASE NOTE: for details see the exploded diagram on page 16.

If fluid continues to flow after the trigger is released, the gun valve may be obstructed or need adjustment. The valve stem (34) or valve seat (10) may be worn or damaged. Adjust or replace parts as instructed below. To reduce the risk of serious injury, do not use the gun until the problem is corrected.

- Follow the Pressure Relief Procedure (see page 8) and disconnect the gun from the hose.
- Disassemble the gun as instructed, then clean and inspect the parts.
- Replace any worn or damaged parts and reassemble the gun as instructed.

VALVE NEEDLE AND SEAL SERVICE


PLEASE NOTE: for details see the exploded diagram on page 16

If fluid flows beyond the seal, the gaskets (8) or the rod (34) might be damaged or worn.

To replace them, follow the procedure described below:

- Be sure to read the WARNING (see page 6).

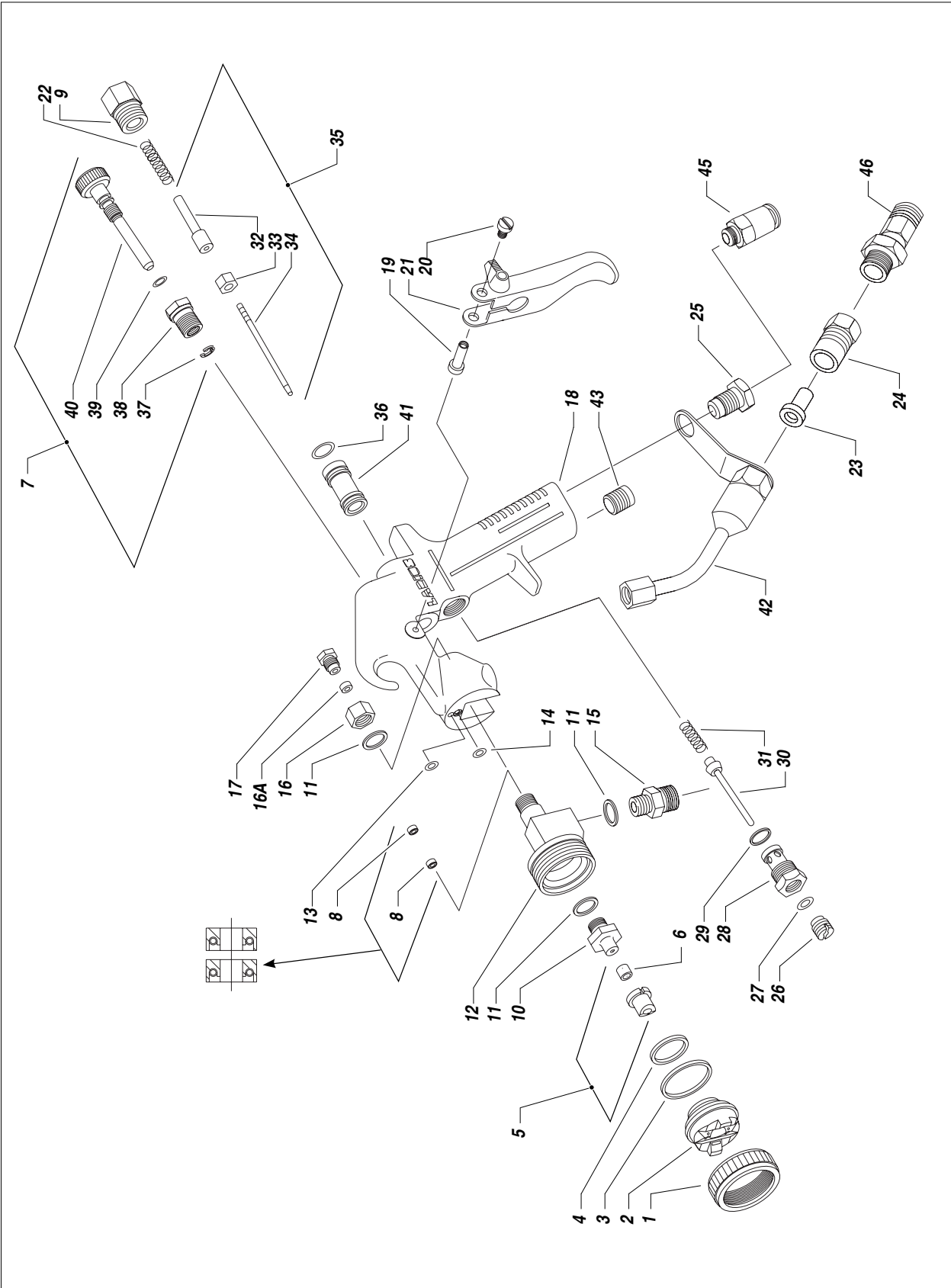
- Follow the Pressure Relief Procedure (see page 8) and disconnect the gun from the hose.
- Loosen the spring adjustment fitting (9) and remove the spring (22).
- Unscrew the sleeve (10), clean or replace it if necessary.
- Remove the needle (34), clean it and, if necessary, replace it.
- Remove the gasket pressing screw (17) and the gasket (16a). Replace the gaskets.
- Fit the gasket pressing screw.
- Insert the needle (34).
- Screw the coupling sleeve (10) with the dedicated washer (11) into the gun body (18).

	<p>The needle (34) and the coupling sleeve (10) must be accurately fitted: during the last turn of the screwing coupling sleeve (10) must compress the needle (34) to provide the proper seal.</p> <p>If the material will leak from the valve while operating the gun:</p> <ul style="list-style-type: none"> • proceed with the pressure release as described at page 8 • Disassemble the coupling sleeve (10) and turn the needle (34) anticlockwise. In this way the spring (22) compression will be increased and seal will be more accurate.
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S EXPLODED DIAGRAM OF MANUAL MIST-LESS 07 SPRAYGUN

WARNING: Always indicate code and quantity for each part required

English



MIST-LESS GUN

Pos.	Code	Description	Pos.	Code	Description
-	19970	Complete manual Mist-Less spraygun	23	271	Filter (60 MESH)
1	11966/1	Ring nut	24	14039/1	Sleeve
2	11963/1	Head	25	11931	Air fitting
3	11972	Gasket	26	12211	Air valve screw
4	11971	Gasket	27	4077	O-Ring
5	-	Nozzle (see list)	28	12209	Air valve seat
6	11995	Seal	29	12208	Gasket
7	11968/1	Complete air adjustment screw	30	12207	Air valve
8	11955	Gasket	31	12206	Spring
9	11918	Spring adjustment fitting	32	11925	Rod holder
10	11959/M	Sleeve with ball seat	33	11926	Lock nut
11	7021	Washer	34	11612/M	Fluid rod
12	11936	Fluid passage head	35	11906/M	Complete fluid rod
13	11986	O-Ring	36	33013/3	O-Ring
14	11988	O-Ring	37	12103	Elastic ring
15	11976	Union	38	11987/1	Bush
16	11973	Lock nut	39	33013/7	O-Ring
16A	11816	Spacer	40	11967/1	Air adjustment screw
17	11935	Gasket pressing screw	41	11917	Bushing
18	11957/1	Gun body	42	11970/1	Material hose
19	11981	Trigger pin	43	12202	Spraygun cap
20	11979	Trigger screw	44	12471	Elastic ring
21	11975	Trigger	45	11781	Union rapid
22	11923	Spring	46	11155	Swivel connection
23	270	Filter (100 MESH)			

NOZZLE TABLES

MIST-LESS			
Art.	Size	Art.	Size
1501/M	5 - 20	1518/M	15 - 40
1502/M	5 - 40	1519/M	15 - 60
1503/M	7 - 20	1521/M	17 - 20
1504/M	7 - 40	1522/M	17 - 40
1506/M	9 - 20	1523/M	17 - 60
1507/M	9 - 40	1525/M	21 - 20
1508/M	9 - 60	1526/M	21 - 40
1510/M	11 - 20	1527/M	21 - 60
1511/M	11 - 40	1530/M	25 - 20
1512/M	11 - 60	1531/M	25 - 40
1514/M	13 - 20	1532/M	25 - 60
1515/M	13 - 40	1534/M	31 - 40
1516/M	13 - 60	1535/M	31 - 60
1517/M	15 - 20	-	-

MIST-CLEAN			
Art.	Size	Art.	Size
19029	9/30	19041	18/65
19030	9/40	19042	21/30
19031	9/65	19043	21/40
19014	11/30	19044	21/65
19017	11/40	19045	23/30
19032	11/65	19046	23/40
19033	13/30	19047	23/65
19034	13/40	19048	26/30
19035	13/65	19049	26/40
19036	15/30	19050	26/65
19037	15/40	19051	31/30
19038	15/65	19052	31/40
19039	18/30	19053	31/65
19040	18/40	19054	35/40

T PNEUMATIC PUMPS FOR MIST-LESS SPRAY PAINTING

English



VEGA 23:1
Art. 91507
Art. 91509 Inox



VEGA 15:1
Art. 91400
Art. 91405 Inox

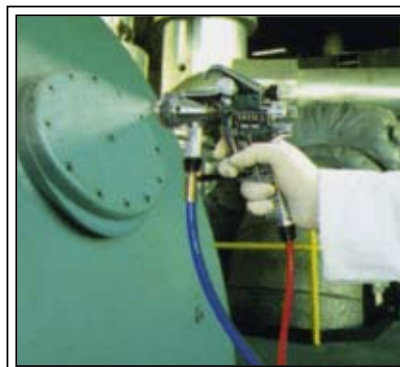
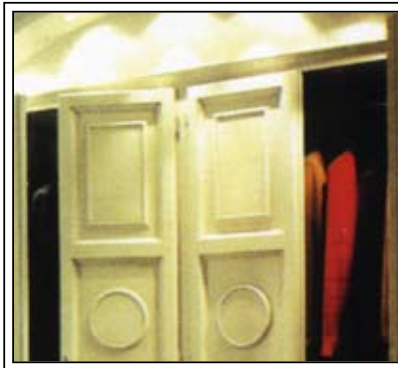


GHIBLI 30:1
Art. 96135
Art. 96137 Inox



OMEGA 23:1
Art. 7340
Art. 7345 Inox

U APPLICATIONS



V VERSIONS



MIST-LESS SPRAYGUN
Art 19970



MIST-LESS SPRAYGUN
MIST-CLEAN version with nozzle Art. 19975



MIST-LESS AUTOMATIC SPRAYGUN high finish
Art. 11820



MIST-LESS SPRAYGUN
with long filter Art. 11946



AIRLESS AUTOMATIC SPRAYGUN LA95
Art. 11700



LOW PRESSION SPRAYGUN MA98L
Art. 11300



RA88 AUTOMATIC LOW-PRESSURE PUMP



RAC2 AUTOMATIC LOW-PRESSURE PUMP



V71 MANUAL LOW-PRESSURE PUMP



V77 MANUAL LOW-PRESSURE PUMP

MIST-LESS GUN

English



MANUAL SPRAYGUN Airless
Art. 11702



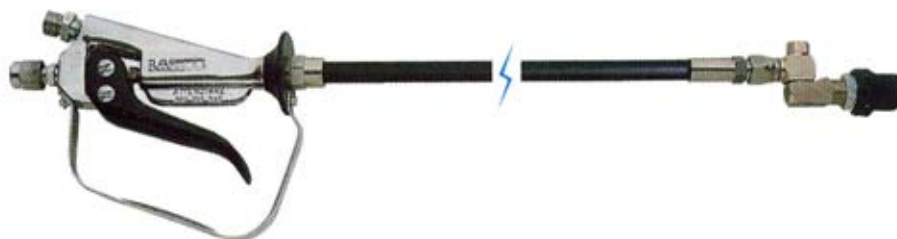
MANUAL SPRAYGUN AT250 Airless
Art. 11200



MANUAL SPRAYGUN AT300 Airless
Art. 11000



MANUAL SPRAYGUN L91X Airless
Art. 11130



MANUAL SPRAYGUN PLA

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

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