

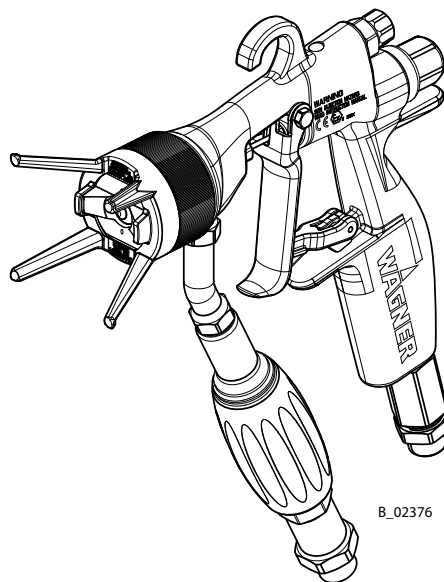


**Translation of the Original
Operating Manual**

**GM 4700AC
GM 4700AC-H**

Version 06/2014

**AirCoat manual gun for flat and
round jet nozzles**



B_02376

CE  **II 2G X (Atex)**

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1 ABOUT THIS MANUAL

1.1 PREFACE

The operating manual contains information about safely operating, maintaining, cleaning and repairing the device.

The operating manual is part of the device and must be available to the operating and service staff.

The device may only be operated by trained staff and in compliance with this operating manual.

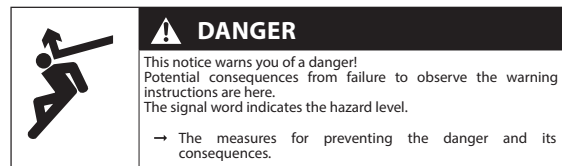
Operating and service staff should be instructed according to the safety instructions.

This equipment can be dangerous if it is not operated according to the instructions in this operating manual.

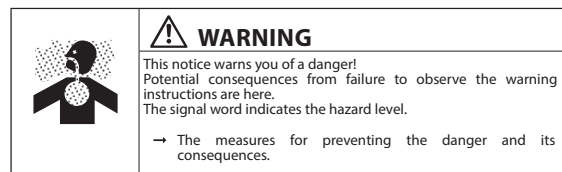
1.2 WARNINGS, NOTICES, AND SYMBOLS IN THIS OPERATING MANUAL

Warning instructions in this operating manual highlight particular dangers to users and to the device and state measures for avoiding the danger. These warning instructions fall into the following categories:

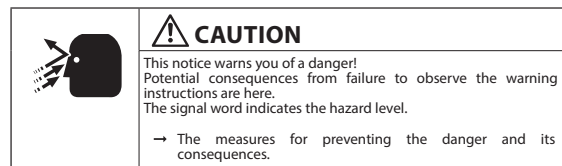
Danger - immediate risk of danger.
Non-observance will result in death or serious injury.



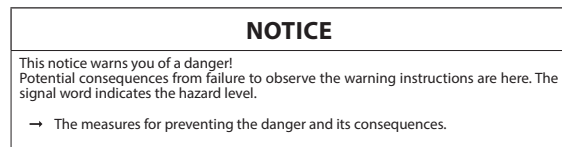
Warning - possible imminent danger.
Non-observance may result in death or serious injury.



Caution - a possibly hazardous situation.
Non-observance may result in minor injury.



Notice - a possibly hazardous situation.
Non-observance may result in damage to property.



Note - provides information about particular characteristics and how to proceed.

1.3 LANGUAGES

The operating manual is available in the following languages:

Language:	Order No.	Language:	Order No.
German	2311729	English	2311730
French	2311731	Dutch	2326027
Italian	2311732	Spanish	2311733
Russian	2328825	Chinese	2328826

1.4 ABBREVIATIONS

Order No.	Order number
ET	Spare part
K	Marking in the spare parts lists
LA	Low Air
HV	for highly viscous materials
LV	for low viscosity materials
Pos	Position
Stk	Number of pieces
SW	Width across flats
GM	Manual gun
AC	AirCoat
H	Processing heated material (hot)
2K	2-component material
DN	Nominal diameter

1.5 TERMINOLOGY FOR THE PURPOSE OF THIS MANUAL

Cleaning	Manual cleaning of devices and device parts with cleaning agent
Flushing	Internal flushing of ink-guiding parts with flushing agent
Product pressure generator	Pump or pressure tank
Staff qualifications	
Trained person	Is instructed in the tasks assigned to him/her, the potential risks associated with improper behavior as well as the necessary protective devices and measures.
Electrically trained person	Is instructed by an electrician about the tasks assigned to him/her, the potential risks associated with improper behavior as well as the necessary protective devices and measures.
Electrician	Can assess the work assigned to him/her and detect possible hazards based on his/her technical training, knowledge and experience in relevant provisions.
Skilled person In accordance with TRBS 1203 (2010)	A person, who, based on his/her technical training, experience and recent vocational experience, has sufficient technical knowledge in the areas of explosion protection, protection from pressure hazards and electric hazards (if applicable) and is familiar with the relevant and generally accepted rules of technology so that he/she can inspect and assess the status of devices and coating systems based on workplace safety.

2 CORRECT USE

2.1 DEVICE TYPE

AirCoat manual gun for manually coating work pieces.

2.2 TYPE OF USE

The gun is suitable for atomizing liquid products, particularly coating products, using the AirCoat process.

2.3 USE IN POTENTIALLY EXPLOSIVE AREAS

The device is suitable for use in potentially explosive areas as defined in the 94/9/EC (ATEX) Directive, (see Explosion protection marking Chapter 3.1).



2.4 SAFETY PARAMETERS

WAGNER shall not accept any liability for any damage resulting from incorrect use.



- Only use the device to work with the products recommended by WAGNER.
- Only operate the device as a whole.
- Do not deactivate safety fixtures.
- Use only WAGNER original spare parts and accessories.

The device may only be operated under the following conditions:

- The operating staff must be trained based on this operating manual.
- The safety regulations listed in this operating manual must be observed.
- The operating, maintenance and repair information in this operating manual must be observed.
- The statutory requirements and accident prevention regulation standards in the country of use must be observed.

2.5 PROCESSIBLE WORKING MATERIALS

Top-coat paints, primer paints, corrosion protection, textured lacquers, lyes, staining solvents, clear lacquers, separating agents, etc. with a solvent or water base. If you want to spray working materials other than the aforementioned, please contact a Wagner representative.

	 WARNING
	Hot coating products! Burns → Wear antistatic protective gloves. → When operating the device with a coating product with a temperature of > 43 °C;109.4 °F, identify the device with a warning label that says "Warning - hot surface".

Note:

Please contact your local WAGNER dealer and the lacquer manufacturer if you encounter application problems.

2.6 REASONABLY FORESEEABLE MISUSE

The forms of misuse listed below may result in physical injury or property damage:

- Unauthorized conversions or modifications to the system;
- Processing dry or similar coating products, e.g. powder;
- Using defective components, spare parts or accessories other than those described in the "Accessories" chapter of this operating manual;
- Continuing work with a defective or kinked product hose;
- Working with incorrectly set values;
- Processing food.

2.7 RESIDUAL RISKS

Residual risks are risks which cannot be ruled out even in the event of correct use. Where appropriate, warning and prohibition signs at the relevant points of risk indicate residual risks.

Residual risk	Source	Consequences	Specific measures	Lifecycle phase
Skin contact with lacquers and cleaning agents	Handling of lacquers and cleaning agents	Skin irritation, allergies	Wear protective clothing Observe safety data sheets	Operation, maintenance, disassembly
Lacquer in air outside the defined working area	Lacquering outside the defined working area	Inhalation of substances hazardous to health	Observe work and operation instructions	Operation, maintenance

3 IDENTIFICATION

3.1 CE EXPLOSION PROTECTION IDENTIFICATION

As defined in the Directive 94/9/EC (ATEX), the device is suitable for use in potentially explosive areas.

Device type: AirCoat manual gun
 Manufacturer: J. Wagner AG
 CH-9450 Altstätten, Switzerland

  II 2G X

CE European Communities
 Ex Symbol for explosion protection
 II Device class II
 2 Category 2 (Zone 1)
 G Ex-atmosphere gas
 X Special Notice



3.2 IDENTIFICATION "X"

X: The maximum surface temperature corresponds to the permissible product temperature.

This and the permissible ambient temperature can be found in the "Technical Data" chapter.

Safe handling of WAGNER spray devices

Mechanical sparks can form if the device comes into contact with metal.

In an explosive atmosphere:

- Do not knock or push the device against steel or rusty iron.
- Do not drop the spray gun.
- Only use tools that are made of a permitted material.

Ignition temperature of the coating product

→ Ensure that the ignition temperature of the coating product is above the maximum surface temperature.

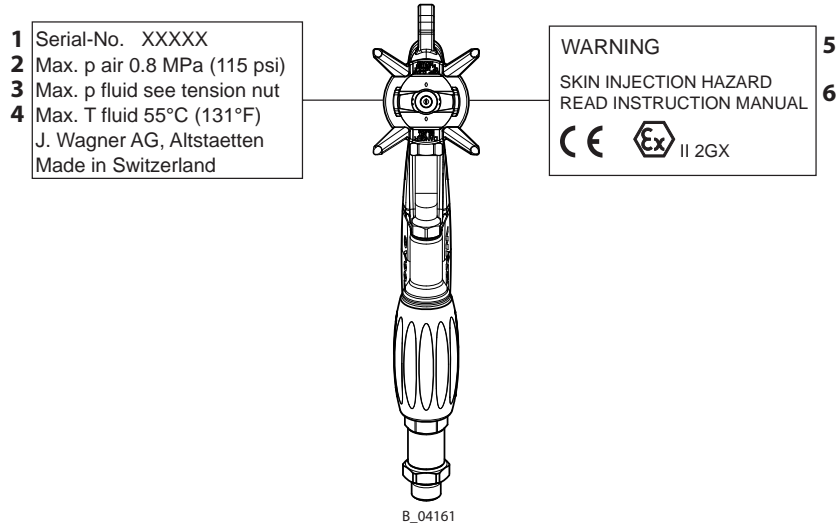
Medium supporting atomizing

→ To atomize the product, use only weakly oxidizing gases, e.g., air.

Cleaning

If there are deposits on the surfaces, the device may form electrostatic charges. Flames or sparks can form during discharge.

→ Remove deposits from the surfaces to maintain conductivity.

3.3 TYPE PLATE

- 1 Serial No.
- 2 Maximum air inlet pressure
- 3 Maximum product pressure see spring cap
- 4 Maximum product temperature
- 5 Warning
- 6 Danger of injury from injection/read operating manual

4 GENERAL SAFETY INSTRUCTIONS

4.1 SAFETY INSTRUCTIONS FOR THE OPERATOR

- Keep this operating manual on hand near the device at all times.
- Always follow local regulations concerning occupational safety and accident prevention.



4.1.1 ELECTRICAL EQUIPMENT

Electrical devices and equipment

- To be provided in accordance with the local safety requirements with regard to the operating mode and ambient influences.
- May only be maintained by skilled electricians or under their supervision.
- Must be operated in accordance with the safety regulations and electrotechnical regulations.
- Must be repaired immediately in the event of problems.
- Must be decommissioned if they pose a hazard.
- Must be de-energized before work is commenced on active parts. Inform staff about planned work. Observe electrical safety regulations.



4.1.2 STAFF QUALIFICATIONS

- Ensure that the device is operated, maintained and repaired only by trained staff.

4.1.3 SAFE WORK ENVIRONMENT

- Ensure that the floor in the working area is static dissipative in accordance with EN 61340-4-1 (resistance must not exceed 100 megohms).
- Ensure that all persons within the working area wear static dissipative shoes. Footwear must comply with EN 20344. The measured insulation resistance must not exceed 100 megohms.
- Ensure that during spraying, persons wear static dissipative gloves. Grounding takes place via the spray gun handle.
- If protective clothing is worn, including gloves, it has to comply with EN 1149-5. The measured insulation resistance must not exceed 100 megohms.
- Paint mist extraction systems/ventilation systems must be fitted on site according to local regulations.
- Ensure that the following components of a safe working environment are available:
 - Product/air hoses adapted to the working pressure.
 - Personal safety equipment (breathing and skin protection).
- Ensure that there are no ignition sources such as naked flames, sparks, glowing wires, or hot surfaces in the vicinity. Do not smoke.



4.2 SAFETY INSTRUCTIONS FOR STAFF

- Always follow the information in this manual, particularly the general safety instructions and the warning instructions.
- Always follow local regulations concerning occupational safety and accident prevention.

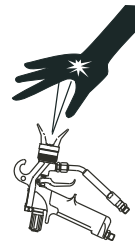


4.2.1 SAFE HANDLING OF WAGNER SPRAY DEVICES

The spray jet is under pressure and can cause dangerous injuries.

Avoid injection of paint or flushing agents:

- Never point the spray gun at people.
- Never reach into the spray jet.
- Before all work on the device, in the event of work interruptions and functional faults:
 - Switch off the energy/compressed air supply.
 - Relieve the pressure from the spray gun and device.
 - Secure the spray gun to prevent actuation.
 - In the event of functional faults, remedy the fault as described in the "Troubleshooting" chapter.
- If necessary or at least every 12 months, the liquid ejection devices should be checked for safe working conditions by an expert (e.g., Wagner Service Technician) in accordance with the guidelines for liquid ejection devices (ZH 1/406 and BGR 500 Part 2 Chapter 2.29 and 2.36).
 - If devices have been decommissioned, the examination can be suspended until the next start-up.
- Carry out the work steps as described in the "Pressure Relief" chapter:
 - If pressure relief is required.
 - If the spraying work is interrupted or stopped.
 - Before the device is cleaned on the outside, checked or serviced.
 - Before the spray nozzle is installed or cleaned.



In the event of skin injuries caused by paint or flushing agents:

- Note the paint or flushing agent that you have been using.
- Consult a doctor immediately.

Avoid risk of injury from recoil forces:

- Ensure that you have firm footing when operating the spray gun.
- Only hold the spray gun briefly in a position.

4.2.2 GROUNDING THE DEVICE

In order to avoid electrostatic charging of the device, the device must be grounded. Friction, flowing liquids, and air or electrostatic coating processes create charges. Flames or sparks can form during discharge.

- Ensure that the device is grounded for every spraying operation.
- Ground the work pieces to be coated.
- Ensure that all persons inside the working area are grounded, e.g. that they are wearing static dissipative shoes.
- Wear static dissipative gloves when spraying. The grounding takes place via the spray gun handle.



4.2.3 PRODUCT HOSES

- Ensure that the hose material is chemically resistant to the sprayed products and the used flushing agents.
- Ensure that the product hose is suitable for the pressure generated.
- Ensure that the following information can be seen on the high-pressure hose:
 - Manufacturer
 - Permissible operating pressure
 - Date of manufacture
- Make sure that the hoses are laid only in suitable places. Hoses should not be laid in the following places under any circumstances:
 - In high-traffic areas
 - At sharp edges
 - On moving parts
 - On hot surfaces
- Ensure that the hoses are never run over by vehicles (e.g. fork lifts), or that the hoses are never put under pressure from the outside in any other way.
- Ensure that the hoses are never kinked. Observe maximum bending radii.
- Make sure that the hoses are never used to pull or move the device.
- The electrical resistance of the product hose, measured at both valves, must be less than 1 megohm.
- Suction hoses may not be subjected to pressure.



Several liquids have a high expansion coefficient. In some cases, their volume can rise with consequent damage to tubes, fittings, etc. and cause fluid leakage.

When the pump sucks liquid from a closed tank, ensure that air or a suitable gas can enter the tank. Thus a negative pressure is avoided. The vacuum could implode the tank (squeeze) and can cause it to break. The tank would leak and the liquid would flow out.

The pressure created by the pump is a multiplication of the inlet air pressure.

4.2.4 CLEANING AND FLUSHING

- Relieve the pressure from the device.
- De-energize the device electrically.
- Preference should be given to non-flammable cleaning and flushing agents.
- Observe the specifications of the paint manufacturer.
- Ensure that the flash point of the cleaning agent is at least 15 K above the ambient temperature or that cleaning is undertaken at a cleaning station with technical ventilation.
- Take measures for workplace safety (see Chapter 4.1.3).
- When commissioning or emptying the device, please note that an explosive mixture may temporarily exist inside the lines and components of equipment:
 - Depending on the coating product used
 - Depending on the flushing agent (solvent) used
 there can be a temporarily explosive mixture inside the lines and pieces of equipment.
- Only electrically conductive tanks may be used for cleaning and flushing agents.
- The tanks must be grounded.



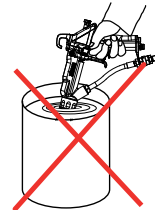
An explosive gas/air mixture forms in closed tanks.

- Never spray into a closed tank when using solvents for flushing.

External cleaning

When cleaning the exterior of the device or its parts, also observe the following:

- Disconnect the pneumatic supply line.
- Use only moistened cloths and brushes. Never use abrasive agents or hard objects and never spray cleaning agents with a gun. Cleaning the device must not damage it in any way.
- Ensure that no electrical component is cleaned with nor even immersed into solvent.



4.2.5 HANDLING HAZARDOUS LIQUIDS, LACQUERS AND PAINTS

- When preparing or working with lacquer and when cleaning the device, follow the working instructions of the manufacturer of the lacquers, solvents and cleaning agents being used.
- Take the specified protective measures, in particular wear safety goggles, protective clothing and gloves, as well as skin protection cream if necessary.
- Use a mask or breathing apparatus if necessary.
- For sufficient health and environmental safety: operate the device in a spray booth or on a spraying wall with the ventilation (extraction) switched on.
- Wear suitable protective clothing when working with hot products.



4.2.6 TOUCHING HOT SURFACES

- Only touch hot surfaces if you are wearing protective gloves.
- When operating the device with a coating product with a temperature of > 43 °C;
109.4 °F:
 - Mark the device with a warning label "Warning – hot surface".

Order No.

9998910 Instruction label

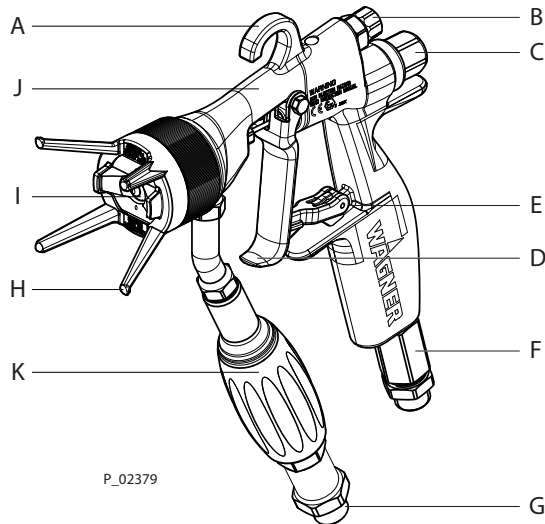
9998911 Protection label

Note: Order the two labels together.



5 DESCRIPTION

5.1 DESIGN



	Designation
A	Suspension hook
B	Regulator for shaping air
C	Spring cap
D	Trigger
E	Trigger locking device
F	Air connection
G	Fluid inlet
H	Union nut with nozzle protection
I	Nozzle / Air cap
J	Gun housing
K	Turning handle with filter housing

5.2 MODE OF OPERATION

If the trigger guard (D) is operated when the trigger guard locking device (E) is released, then the air valve opens first. Atomizing air flows through the air connection (F) to the air cap (I). The material valve opens only when approx. 1/2 of the trigger guard's path is covered. The quantity of air for the atomization of the jet spray is preset via the external air automatic controller. The spray pattern can be adjusted using the shaping air regulator (B).

5.3 PROTECTIVE AND MONITORING EQUIPMENT

The spray gun is secured with the locking device (E) (the locking device turned in the spraying direction and fastened in the groove).

5.4 SCOPE OF DELIVERY

This AirCoat manual gun is available in two different versions. The choice of air cap and nozzle depends on the application, therefore these components are not included in the scope of delivery. A selection guide for gun accessories can be found in Chapter 13.

5.4.1 VERSIONS FOR APPLICATION UP TO 25 MPa; 250 BAR; 3625 PSI

Stk	Order No.	Designation
1	2313585	GM 4700AC 25 MPa, NPSM1/4" product connection
1	2315700	GM 4700AC-H 25 MPa, NPSM1/4" product connection (H = for processing heated material)

5.4.2 STANDARD EQUIPMENT

The standard equipment for guns includes:

Stk	Order No.	Designation
1	2316429	CE Declaration of Conformity
1	2311729	Operating manual, German
1	see Chapter 1.3	Operating manual in local language
1	394335	Spring cap 16 MPa; 160 bar; 2320 psi

For special versions the delivery note applies.

5.5 DATA

5.5.1 MATERIALS OF PAINT-WETTED PARTS

Metals		Plastics	
Carbide	Stainless steel 1.4305	POM	FPM
Stainless steel 1.4301	Stainless steel 1.4104	PTFE	PA

5.5.2 TECHNICAL DATA

Description	Devices	AirCoat manual gun	
		GM 4700AC	GM 4700AC-H
Maximum air inlet pressure	MPa; psi; bar	0.8; 120; 8	
Maximum product pressure *	MPa; psi; bar	25; 3625; 250 (16; 2320; 160*)	
Fluid inlet	Inch	NPSM1/4"	
Air connection	Inch	G1/4"	
Filter **	Mesh	50, 100, 150, 200	
Weight	g; oz	595 g; 20.9 oz	
pH range of the product	pH	3.5 - 9.0	
Maximum product temperature	°C; °F	55; 131	80; 176
Maximum air temperature	°C; °F	43; 109	
Sound level at 0.3 MPa; 3 bar; 43.5 psi air pressure and 11 MPa; 110 bar; 1549 psi product pressure***	dB(A)	< 82	

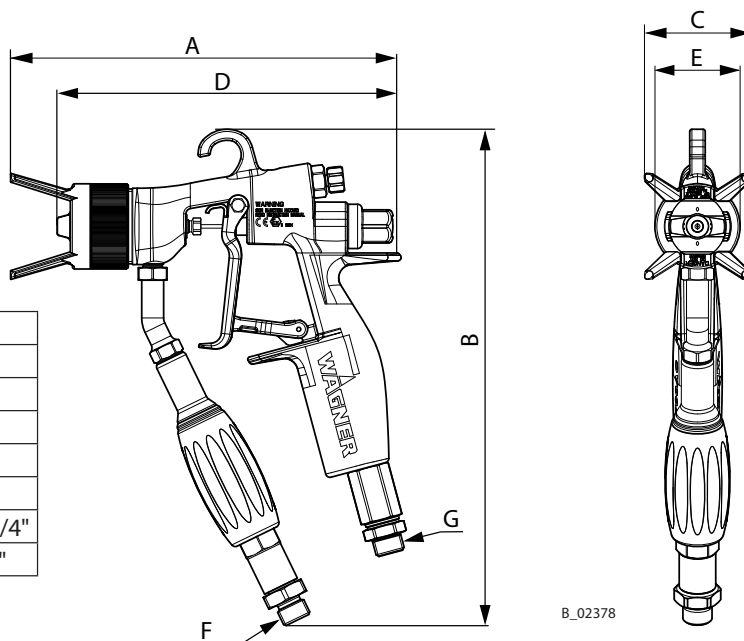
* Spring cap type 16 MPa; 160 bar; 2320 psi is included

** For filter sizes, see Chapter 13.6

*** A-rated sound pressure level measured at 0.5 m distance, Lpa 0.5m in accordance with DIN EN 14462: 2005.

Dimensions



Measurement	mm	inch
A	173	6.81
B	216	8.50
C	48	1.89
D	152	5.98
E	39	1.54
F	-	NPSM1/4"
G	-	G1/4"



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6 ASSEMBLY AND COMMISSIONING

6.1 TRAINING ASSEMBLY/COMMISSIONING STAFF

	 WARNING
	<p>Incorrect installation/operation! Risk of injury and damage to the device.</p> <ul style="list-style-type: none"> → The assembly and commissioning staff must have the technical skills to safely undertake commissioning. → When assembling, commissioning and carrying out all work, read and follow the operating manuals and safety regulations for the additionally required system components.

A skilled person must check to ensure that the device is in a reliable state after it is installed and commissioned.

6.2 STORAGE CONDITIONS

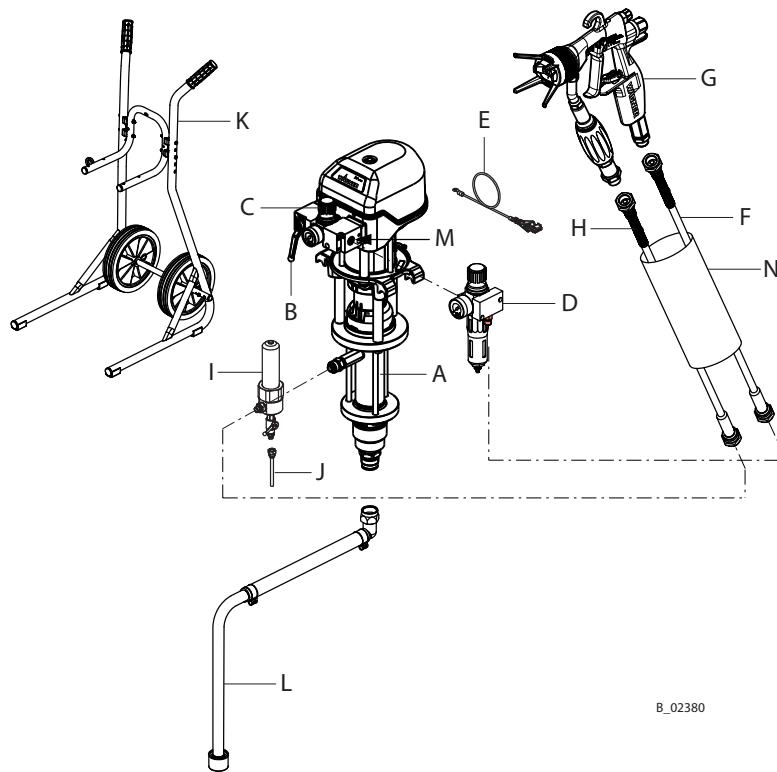
Until the point of assembly, the device must be stored in a dry location, free of vibrations and with a minimum amount of dust. The device must be stored in enclosed rooms. The air temperature at the storage location must be between -20 °C and +60 °C; -4 °F and +140 °F.

The relative air humidity at the storage location must be between 10 and 95% (without condensation).

6.3 INSTALLATION CONDITIONS

The air temperature at the installation site must be in a range between 0 °C and +40 °C; +32 and +132 °F.

The relative air humidity at the installation site must be between 10 and 95% (without condensation).

6.4 ASSEMBLY AND INSTALLATION**6.4.1 TYPICAL AIRCOAT SPRAYING SYSTEM**



B_02380

A	Material pump	H	High-pressure paint hose, electrically conductive
B	Pressure air shut-off valve	I	High-pressure filter/fluid pressure release
C	Pressure regulator	J	Return line
D	Air pressure regulator with air filter	K	Pump mounting trolley
E	Grounding cable	L	Suction system
F	Air hose	M	Compressed air main
G	AirCoat manual gun	N	Protective hose

The AirCoat manual gun GM 4700AC must be combined with various components to make up a spraying system. The system shown in the figure is only one example of an AirCoat spraying system. Your Wagner distributor would be happy to assist you in creating a spraying system solution that meets your individual needs.

You must familiarize yourself with the operating manuals and the safety regulations for all additional system components required before starting with commissioning.

6.4.2 VENTILATION OF THE SPRAY BOOTH



	 WARNING
	<p>Toxic and/or flammable vapor mixtures! Risk of poisoning and burns</p> <ul style="list-style-type: none"> → Operate the device in a spray booth approved for the working materials. <li style="text-align: center;">– or – → Operate the device on an appropriate spraying wall with the ventilation (extraction) switched on. → Observe national and local regulations for the outgoing air speed.

6.4.3 AIR SUPPLY



The use of an air filter with air regulator (D) ensures that only dry, clean atomizing air gets into the spray gun! Dirt and moisture in the atomizing air worsens the spraying quality and spraying pattern.



6.4.4 PRODUCT SUPPLY

NOTICE
<p>Impurities in the spraying system! Spray gun blockage, materials harden in the spraying system</p> <p>→ Flush the spray gun and paint supply with a suitable flushing agent.</p>

	 WARNING
	<p>Bursting hose, bursting threaded joints! Danger to life from injection of product</p> <ul style="list-style-type: none"> → Ensure that the hose material is chemically resistant to the sprayed products. → Ensure that the spray gun, threaded joints, and product hose between the device and the spray gun are suitable for the pressure generated in the device. → Ensure that the following information can be seen on the high-pressure hose: <ul style="list-style-type: none"> - Manufacturer - Permissible operating pressure - Date of manufacture

6.5 GROUNDING

	 WARNING
	<p>Discharge of electrostatically charged components in atmospheres containing solvents! Explosion hazard from electrostatic sparks or flames</p> <p>→ Ground all device components. → Ground the work pieces to be coated.</p>

	 WARNING
	<p>Heavy paint mist if grounding is insufficient! Risk of poisoning. Insufficient paint application quality</p> <p>→ Ground all device components. → Ground the work pieces to be coated.</p>

A conductive connection (potential equalization cable) must be established between original bundles and the equipment.

6.6 SAFETY CHECKS

→ Carry out safety checks in accordance with Chapter 8.2.3.

6.7 PREPARATION OF LACQUER

The viscosity of the lacquer is of great importance. The best spraying results are obtained with values between 80 and 260 milli Pascal x Sec (mPas).

Please also read the technical data sheet of the lacquer for optimal processing, viscosity adjustment and intermixing of the product.

6.8 COMMISSIONING

6.8.1 SAFETY INSTRUCTIONS

- Observe the safety instructions in Chapter 4 and Chapter 8.1.2.
- Observe the general rules for making adjustments to the spray gun. → Chapter 7.2.1.

6.8.2 PREPARATION FOR COMMISSIONING

NOTICE

Impurities in the spraying system!

Clogging of the spray gun

- Flush the spray gun and paint supply with a suitable flushing agent before commissioning.

6.8.3 COMMISSIONING

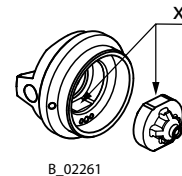
1. Secure the spray gun.
2. Connect the product hose to the spray gun and product supply system.
3. Connect air hose to spray gun and to oil-free, dry air supply.
4. For guns with filters, insert a suitable filter (see Chapter 13.6 regarding filter inserts).
5. Fit nozzle on nozzle seal. Fit air cap over nozzle. Note the flattened parts (X) on the nozzle and in the air cap. Fit the union nut with nozzle guard and tighten by hand.
6. Visually check the permissible pressures for all the system components.
7. Make sure that the device and all other conductive parts within the work area are grounded.
8. To perform a leak test on the entire installation, the product pressure is slowly increased in increments using a suitable medium until the maximum pressure indicated on the type plate is reached.

Note:

Set the operating pressure to 100 bar; 10 MPa; 1450 psi.

Pull the trigger and check whether the gun closes cleanly upon release.

9. Relieve the pressure of the spray gun and product pressure generator and secure the spray gun.



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6.8.4 VERIFYING A SAFE OPERATIONAL CONDITION

A skilled person must check to ensure that the device is in a reliable state after it is installed and commissioned.



This includes:

- Carry out a safety check in accordance with Chapter 8.2.3.





7 OPERATION

7.1 TRAINING THE OPERATING STAFF

	 WARNING
	<p>Incorrect operation! Risk of injury and damage to the device.</p> <ul style="list-style-type: none"> → The operating staff must be qualified and fit to operate the entire system. → The operating staff must be familiar with the potential risks associated with improper behavior as well as the necessary protective devices and measures. → Before work commences, the operating staff must receive appropriate training.



7.2 SAFETY INSTRUCTIONS

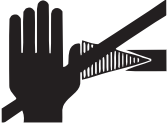

- Observe the general rules for making adjustments to the spray gun (see Chapter 7.2.1).
- Observe safety instructions in Chapter 4.

	 WARNING
	<p>Incorrect operation! Risk of injury and damage to the device.</p> <ul style="list-style-type: none"> → If contact with paints or cleaning agents causes skin irritation, appropriate precautionary measures must be taken, e.g. wearing protective clothing. → The footwear worn by operating staff must comply with EN ISO 20344. The measured insulation resistance must not exceed 100 megohms. → The protective clothing, including gloves, must comply with EN ISO 1149-5. The measured insulation resistance must not exceed 100 megohms.

7.2.1 GENERAL RULES FOR MAKING ADJUSTMENTS TO THE SPRAY GUN

→ Observe **safety instructions** in Chapter 4.

	 WARNING
	<p>Unintentional putting into operation! Risk of injury</p> <p>Before any work on the device, in the event of work interruptions and malfunctions:</p> <ul style="list-style-type: none"> → Switch off the energy/compressed air supply. → Relieve the pressure from the spray gun and unit. → Secure the spray gun against actuation. → In the event of functional faults, remedy the fault as described in the "Troubleshooting and rectification" chapter.

	 WARNING
	<p>High-pressure spray jet! Danger to life from injecting paint or solvent</p> <ul style="list-style-type: none"> → Never reach into the spray jet. → Never point the spray gun at people. → Consult a doctor immediately in the event of skin injuries caused by paint or solvent. Inform the doctor about the paint or solvent used. → Never seal defective high-pressure parts; instead relieve the pressure from them and replace them. → Wear the appropriate protective clothing, gloves, eyewear and respiratory protection.

7.3 WORK

Ensure that:

- the regular safety checks are carried out in accordance with Chapter 8.2.3,
- commissioning is carried out in accordance with Chapter 6.8.

7.3.1 STARTING TO SPRAY WITH THE AIRCOAT

1. Start up with product supply set to approx. 8 MPa; 80 bar; 1160 psi operating pressure.
2. Spray (release locking device and pull trigger) and at the same time observe how the product is atomizing.
3. Set the fluid pressure on the material pump to a point where good product atomization is achieved.
4. Open the air pressure regulator for the atomizing air and adjust it so that an optimal atomization is achieved. (The interrelation between spray pattern and atomizing air is shown in the figure below).
5. Use the shaping air controller on the gun to adjust the shaping air to atomizing air ratio until the optimal spray pattern is achieved.

Note:

Repeat points 3, 4 and 5 until the optimum spray pattern is reached (iterative process).

Spray pattern shapes:



No atomizing air



Too little atomizing air



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Correct amount of atomizing air

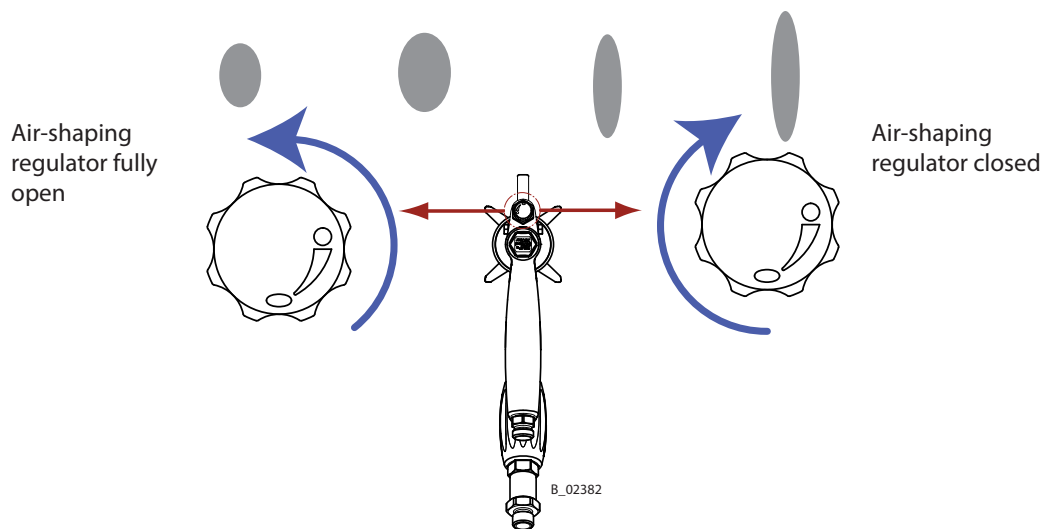
Note:

The quantity of product can be changed by:

- changing the product pressure or
- using a different flat jet nozzle (see Chapter 7.3.4 and Chapter 13).

7.3.2 ADJUSTING THE SPRAY PATTERN

The spray pattern can be adjusted to suit the object being sprayed using the shaping air regulator. The illustration shows the influence of the shaping air regulator on the spraying pattern. Other nozzle sizes can be mainly used to obtain larger or smaller spraying patterns.



7.3.3 PRESSURE RELIEF/WORK INTERRUPTION

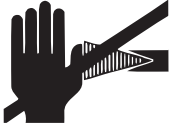

The pressure must always be relieved:

- when the spraying tasks are finished,
- before carrying out maintenance work on the spraying system,
- before carrying out cleaning tasks on the spraying system,
- before moving the spraying system to another location,
- if something must be checked on the spraying system,
- if the nozzle or the filter is removed from the spray gun.

The components for pressure relief on a CE-compliant spray system include:

- Air cock with pressure relief hole mounted between compressed air source and pneumatic pump.
- Product pressure relief valve mounted between pump and spray gun.

Please read the general safety instructions in Chapter 4.

	 WARNING
	<p>High-pressure spray jet! Danger to life from injecting paint or solvent</p> <ul style="list-style-type: none"> → Never reach into the spray jet. → Never point the spray gun at people. → Consult a doctor immediately in the event of skin injuries caused by paint or solvent. Inform the doctor about the paint or solvent used. → Never seal defective high-pressure parts; instead relieve the pressure from them and replace them. → Wear the appropriate protective clothing, gloves, eyewear and respiratory protection.

Pressure relief procedure:

1. Secure the spray gun with the locking device.
2. Close air supply to pump and relieve air pressure in air motor.
3. Release the locking device on the spray gun.
4. Press the electrically conductive part of the spray gun against grounded metal tank for return product and open the spray gun using the trigger guard; keep it open until no further overpressure is detected.
5. Secure the spray gun with the locking device.
6. Open product pressure relief valve (see system description) and leave open.

If the pressure is still not completely relieved after this:

- **If the nozzle is obstructed:** slowly loosen the union nut to release the residual pressure.
- **If product hose is obstructed:** slowly loosen the hose connections to release the remaining pressure.

Note:

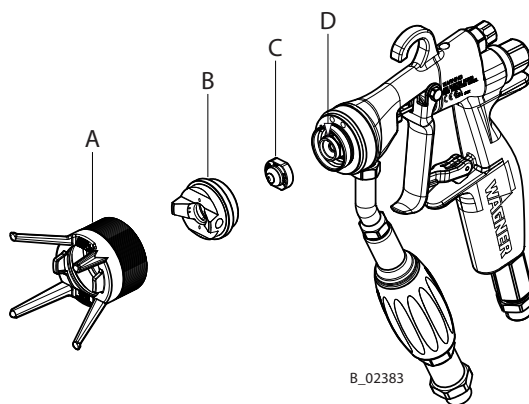
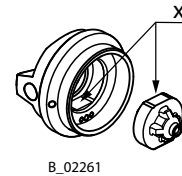
Always follow the procedure described above if pressure relief is specified in the instructions.

7.3.4 CHANGING THE AIRCOAT NOZZLE**NOTICE****Defective AirCoat nozzle!**

Insufficient paint application quality

→ Do not use sharp-edged objects to treat carbide on the AirCoat nozzle.

1. Relieve the pressure on the spray gun and product pressure generator.
2. Secure the spray gun with the locking device.
3. Unscrew union nut (A).
4. Remove air cap (B).
5. Press AirCoat nozzle (C) out of air cap (B) by hand and treat with cleaning agent until all remaining paint has been dissolved.
6. **Assembly:**
Fit AirCoat nozzle (C) in nozzle seal (D).
7. Fit air cap (B) over nozzle (C). Note the flattened parts (X) on the nozzle and in the air cap.
8. Fit the union nut with nozzle guard (A) and tighten by hand.



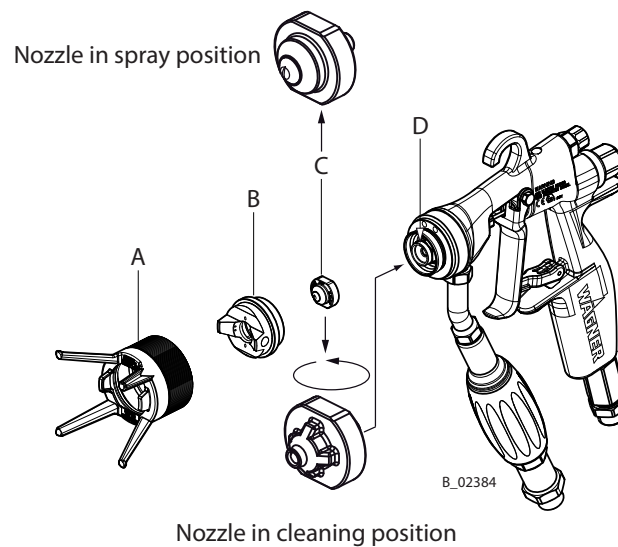
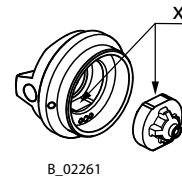
7.3.5 CLEANING AIRCOAT NOZZLE

For disassembly and assembly of AirCoat nozzles, see section 7.3.4.

AirCoat nozzle (C) can be placed into a cleaning solvent which has been recommended by the paint manufacturer.

7.3.6 ELIMINATE NOZZLE CLOGGING

1. Relieve the pressure of the spray gun and device.
2. Secure the spray gun with the locking device.
3. Unscrew the union nut with nozzle guard (A).
4. Remove air cap (B).
5. Push AirCoat nozzle (C) out of air cap (B) by hand and place on nozzle seal (D) the other way round with the nozzle tip towards the rear.
6. Refit air cap (B) on nozzle (C). Note the flattened parts (X) on the nozzle and in the air cap.
7. Screw the union nut with nozzle guard (A) over the air cap (B) onto the spray gun and tighten by hand.
8. Switch the product pressure back on.
9. Turn the locking device to the spraying position and briefly pull trigger.
10. When the blockage has been flushed out, secure the spray gun with the trigger guard locking device.
11. Relieve the pressure of the spray gun and device.
12. Unscrew the union nut with nozzle guard (A).
13. Remove air cap (B) and push AirCoat nozzle (C) out by hand. Clean the nozzle and put it back on nozzle seal (D) in the spray position.
14. Refit air cap (B) on nozzle (C).
Note the flattened parts (X) on the nozzle and in the air cap.
15. Screw the union nut with nozzle guard (A) over the air cap (B) onto the spray gun and tighten by hand.
16. Switch the product pressure and the air pressure back on.



8 CLEANING AND MAINTENANCE

8.1 CLEANING



8.1.1 CLEANING STAFF



Cleaning work should be undertaken regularly and carefully by qualified and trained staff. They should be informed of specific hazards during their training.

The following hazards may arise during cleaning work:

- Health hazard from inhaling solvent vapors
- Use of unsuitable cleaning tools and aids

8.1.2 SAFETY INSTRUCTIONS

	 DANGER
	<p>Exploding gas / air mixture! Danger to life from flying parts and burns → Never spray into a closed tank. → Ground the tank.</p>

	 WARNING
	<p>Explosive atmosphere! Explosive gases are produced when aluminum comes into contact with halogenated hydrocarbons → To clean aluminum, do not use liquids containing halogenated hydrocarbons.</p>

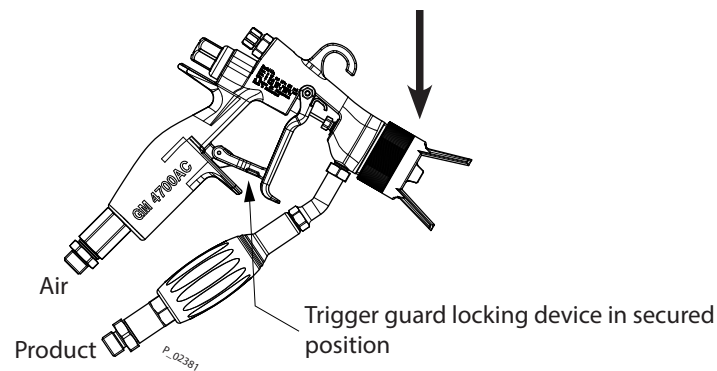
8.1.3 FLUSHING AND CLEANING THE GUN

NOTICE

Flushing agent in the air duct!



Functional faults caused by swollen seals.

- Always point the spray gun down when cleaning.
- Ensure that neither paint nor flushing agent enters the air duct.
- Never immerse the spray gun in cleaning agent or water.



- Observe safety instructions in Chapter 4.

The spray gun and the device must be cleaned and flushed daily. The cleaning/flushing agents used for cleaning or flushing must correspond with the working material.

	 DANGER
	<p>Incorrect maintenance/repair! Danger to life and damage to the device.</p> <ul style="list-style-type: none">→ Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts.→ Only repair and replace parts that are listed in the "Spare Parts" chapter and that are assigned to the device.→ Before all work on the device and in the event of work interruptions:<ul style="list-style-type: none">- Switch off the energy/compressed air supply.- Relieve the pressure from the spray gun and device.- Secure the spray gun to prevent actuation.→ Observe the operating manual and service manuals at all times when carrying out work.

Note:

Methylene chloride is not recommended as an agent for flushing or cleaning the spray gun or other system components.

1. Relieve the pressure on the spray gun and product pressure generator in accordance with Chapter 7.3.3.
2. Secure the spray gun with the locking device.
3. Connect the solvent supply.
4. Dismount AirCoat nozzle and clean separately (see Chapter 7.3.4 and 7.3.5).
5. Raise the pressure of the rinsing agent supply up to a maximum of 4 MPa; 40 bar; 580 psi and thoroughly rinse the spray gun.
6. Relieve the pressure on the spray gun and product pressure generator.
7. Secure the spray gun with the locking device.
8. Clean the spray gun body with a cleaning agent recommended by the lacquer manufacturer and dry with a cloth or blow gun.

8.2 MAINTENANCE

8.2.1 MAINTENANCE STAFF

Maintenance work should be undertaken regularly and carefully by qualified and trained staff. They should be informed of specific hazards during their training.

The following hazards may arise during maintenance work:

- Health hazard from inhaling solvent vapors
- Use of unsuitable tools and aids

An authorized person must ensure that the device is checked for being in a reliable state after maintenance work is completed.

8.2.2 SAFETY INSTRUCTIONS

→ Observe the safety instructions in Chapter 4 and Chapter 8.1.2.

Prior to maintenance



- Flush and clean the system. → Chapter 8.1.3.

After maintenance

- Carry out a safety check in accordance with Chapter 8.2.3.
- Put the system into operation and check for leaks as described in Chapter 6.8.

→ In accordance with the guideline for liquid ejection devices (ZH 1/406 and BGR 500 Part 2 Chapter 2.29 and Chapter 2.36):

- The liquid ejection devices should be checked by an expert (e.g. Wagner service technician) for their safe working conditions as required and at least every 12 months.
- If devices have been decommissioned, the examination can be suspended until the next start-up.

	 DANGER
	<p>Incorrect maintenance/repair! Danger to life and damage to the device.</p> <ul style="list-style-type: none"> → Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts. → Only repair and replace parts that are listed in the "Spare Parts" chapter and that are assigned to the device. → Before all work on the device and in the event of work interruptions: <ul style="list-style-type: none"> - Switch off the energy/compressed air supply. - Relieve the pressure from the spray gun and device. - Secure the spray gun to prevent actuation. → Observe the operating manual and service manuals at all times when carrying out work.



8.2.3 SAFETY CHECKS

8.2.3.1 GROUNDING CHECK

Every day

Before starting work, carry out a visual check to ensure that the system is grounded.

8.2.3.2 PRODUCT HOSES, TUBES AND COUPLINGS

	 DANGER
	<p>Bursting hose, bursting threaded joints! Danger to life from injection of product and from flying parts.</p> <ul style="list-style-type: none"> → Ensure that the hose material is chemically resistant to the sprayed products and the used flushing agents. → Ensure that the spray gun, threaded joints, and product hose between the device and the spray gun are suitable for the generated pressure. → Ensure that the following information can be seen on the hose: <ul style="list-style-type: none"> - Manufacturer - Permissible operating pressure - Date of manufacture.

The service life of the complete hoses between product pressure generator and application device is reduced due to environmental influences even when handled correctly.

- Check hoses, pipes, and couplings every day and replace if necessary.
- Before every commissioning, check all connections for leaks.
- Additionally, the operator must regularly check the complete hoses for wear and tear as well as for damage at intervals that he/she has set. Records of these checks must be kept.
- The complete hose is to be replaced as soon as one of the two following intervals has been exceeded:
 - 6 years from the date of the hose crimping (see fitting embossing).
 - 10 years from the date of the hose imprinting.

Fitting embossing	Meaning
xxx bar	Pressure
yymm	Crimping date (year/month)
XX	Internal code

Hose imprinting	Meaning
Wagner	Name / Manufacturer
yymm	Date of manufacture (year/month)
xxx bar (xx MPa) e.g. 270 bar (27MPa)	Pressure
XX	Internal code
DNxx (e.g. DN10)	Nominal diameter

8.3 REPLACING THE PRODUCT HOSE OR AIR HOSE

1. Flush and clean the gun as described in Chapter 8.1.3.
2. Relieve the pressure of gun and device.
3. Secure the gun with the locking device.

Product hose

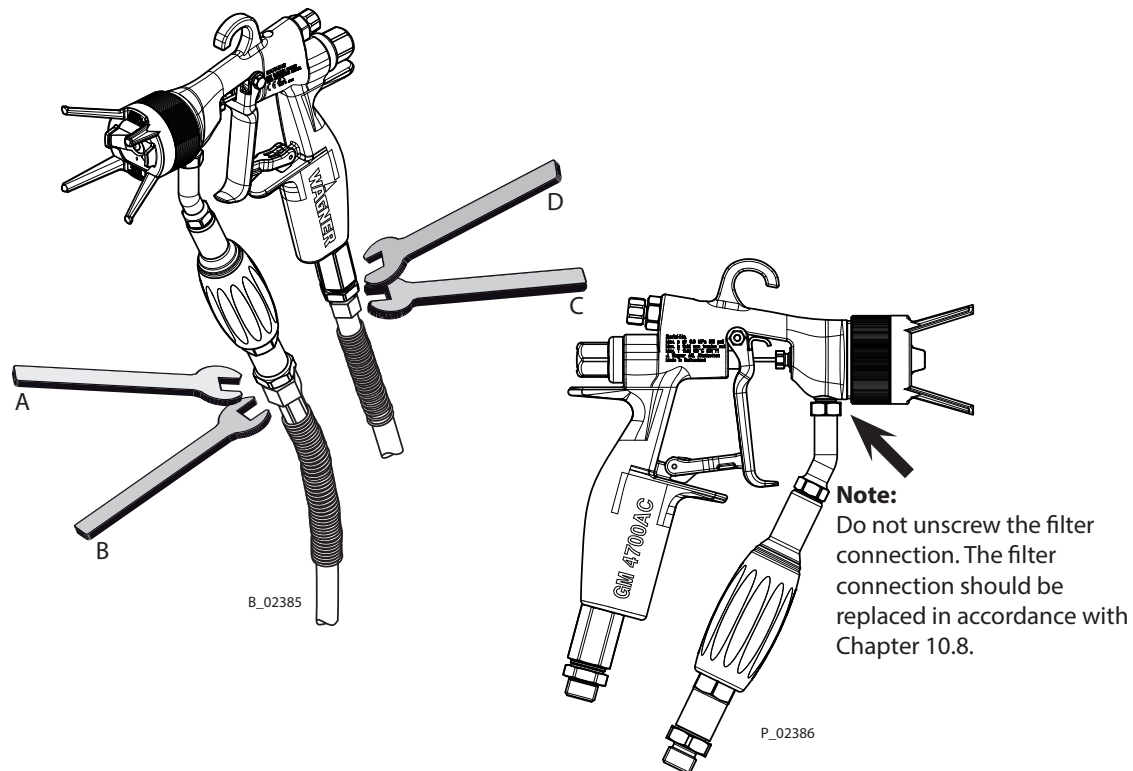
4. Place the size A open-end wrench on the lower flats of the product connection and hold it in place.
5. Unscrew the product hose nut using the size B open-end wrench.

Air hose

4. Place the size D open-end wrench on the flats of the air connection and hold it in place.
5. Loosen the air hose's nut with a size C open-end wrench.

Assembly:

1. Screw on the product hose or air hose by hand and tighten with the two open-end wrenches.



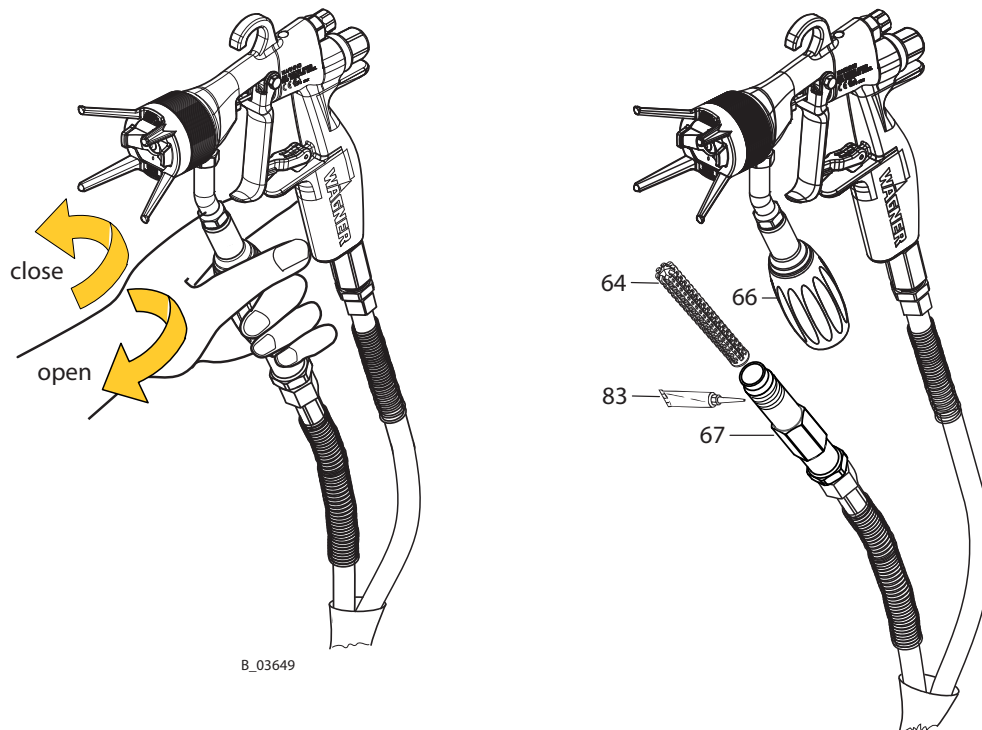
Description	Wrench A Width across flats	Wrench B Width across flats	Wrench C Width across flats	Wrench D Width across flats
GM 4700AC with NPS1/4" filter	19 mm 0.75 inch	19 mm 0.75 inch	17 mm 0.67 inch	17 mm 0.67 inch

8.4 CHANGING OR CLEANING FILTER INSERT

1. Flush and clean the gun as described in Chapter 8.1.3.
2. Relieve the pressure of gun and device.
3. Secure the gun with the locking device.
4. Loosen the filter housing (67) manually with turning handle (66) and unscrew it.
When the product hose together with filter housing and filter insert has been exposed, push the rotary handle (66) back onto the upper filter connection.
5. Pull the filter insert (64) out of the filter housing (67).
6. Thoroughly clean all parts with flushing agent.

Assembly:

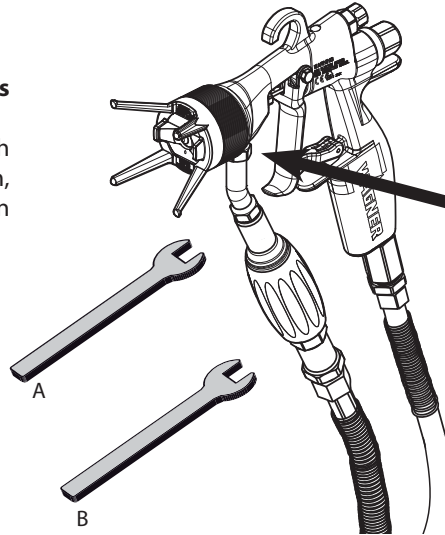
7. Push the cleaned or new filter insert (64) with opening downwards into the filter housing (67).
8. Insert the filter housing (67) into the turning handle, screw in manually with the turning handle and tighten.



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Procedure if connection is difficult to loosen:



Loosen filter housing (67) with wrench size B open-end wrench, supporting the filter connection with size A open-end wrench.



Note:
Do not unscrew the filter connection. The filter connection should be replaced in accordance with Chapter 10.8.

Wrench A Width across flats	Wrench B Width across flats
13 mm 0.51 inch	17 mm 0.67 inch

9 TROUBLESHOOTING AND RECTIFICATION

	 DANGER
	<p>Incorrect maintenance/repair! Danger to life and damage to the device.</p> <ul style="list-style-type: none"> → Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts. → Only repair and replace parts that are listed in the "Spare Parts" chapter and that are assigned to the device. → Before all work on the device and in the event of work interruptions: <ul style="list-style-type: none"> - Switch off the energy/compressed air supply. - Relieve the pressure from the spray gun and device. - Secure the spray gun to prevent actuation. → Observe the operating manual and service manuals at all times when carrying out work.

Functional fault	Cause	Remedy	See Chapter
Insufficient product output.	Nozzle too small.	Select larger nozzle.	13
	Product pressure too low.	Increase product pressure.	
	Gun filter or high pressure filter clogged at pump	Clean or replace filter.	8.4
	Nozzle is clogged.	Nozzle cleaning	7.3.6
	The valve rod path is too short.	Replace the valve rod.	10.4
Poor spray pattern	Atomizing air incorrectly adjusted.	Readjust the atomizing air.	7.3.1
	Nozzle worn.	Replace nozzle.	7.3.4
	Product pressure too low.	Increase the product pressure at pump.	
	The product viscosity is too high.	Dilute the spray product in accordance with the manufacturer's instructions.	
	The nozzle is partially clogged.	Nozzle cleaning	7.3.5 / 7.3.6
	The drilled holes in the air cap are damaged or clogged.	Clean or replace the air cap.	7.3.6
	Incorrectly selected air cap.	Insert the correct air cap (solvent /water based paint).	7.3.6 / 13.2

Valve rod leaks (paint path or air path)	The seals on the valve rod are damaged or the valve rod itself is damaged.	Replace the entire valve rod or the individual seals.	10.4
	Air valve seals are leaky.	Replace the air valve seal.	10.6
	Pretension is too low.	Tighten up the sealing screw.	
Gun will not shut off correctly	The valve seat or the valve ball is damaged.	Replace the parts.	10.4
	Pretension of the seals is too strong.	Replace the seals.	10.4 - 10.7

10 REPAIR WORK

10.1 REPAIR STAFF

Repair work must be carried out carefully by qualified and trained staff. They should be informed of specific hazards during their training.

The following hazards may arise during repair work:

- Health hazard from inhaling solvent vapors
- Use of unsuitable tools and aids

A skilled person must ensure that the device is checked for being in a reliable state after repair work is completed.

10.2 SAFETY INSTRUCTIONS

→ Observe the safety instructions in Chapter 4 and Chapter 8.1.2.

Before repair work



- Flush and clean the system. → Chapter 8.1.3.

After repair work

- Carry out a safety check in accordance with Chapter 8.2.3.
- Put the system into operation and check for leaks as described in Chapter 6.8.
- Function test in accordance with Chapter 11.

→ In accordance with the guideline for liquid ejection devices (ZH 1/406 and BGR 500 Part 2 Chapter 2.29 and Chapter 2.36):

- The liquid ejection devices should be checked by an expert (e.g. Wagner service technician) for their safe working conditions as required and at least every 12 months.
- If devices have been decommissioned, the examination can be suspended until the next start-up.

	 DANGER
<p>Incorrect maintenance/repair! Danger to life and damage to the device.</p> <ul style="list-style-type: none"> → Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts. → Only repair and replace parts that are listed in the "Spare Parts" chapter and that are assigned to the device. → Before all work on the device and in the event of work interruptions: <ul style="list-style-type: none"> - Switch off the energy/compressed air supply. - Relieve the pressure from the spray gun and device. - Secure the spray gun to prevent actuation. → Observe the operating manual and service manuals at all times when carrying out work. 	

10.3 DISASSEMBLY OF THE GUN

The following tools are required for carrying out the repair work on the gun described below:

- Open-end wrench SW 5
- Open-end wrench SW 6
- Open-end wrench SW 7
- Open-end wrench SW 13
- Open-end wrench SW 15
- Socket wrench SW 13
- Socket wrench SW 15
- Mounting key Order No. 179989
- Nozzle wrench, complete Order No. 128901
- Torque wrench 12±1 Nm; 8.85 lbft
- Pipe wrench
- Pin Ø 1.5 mm

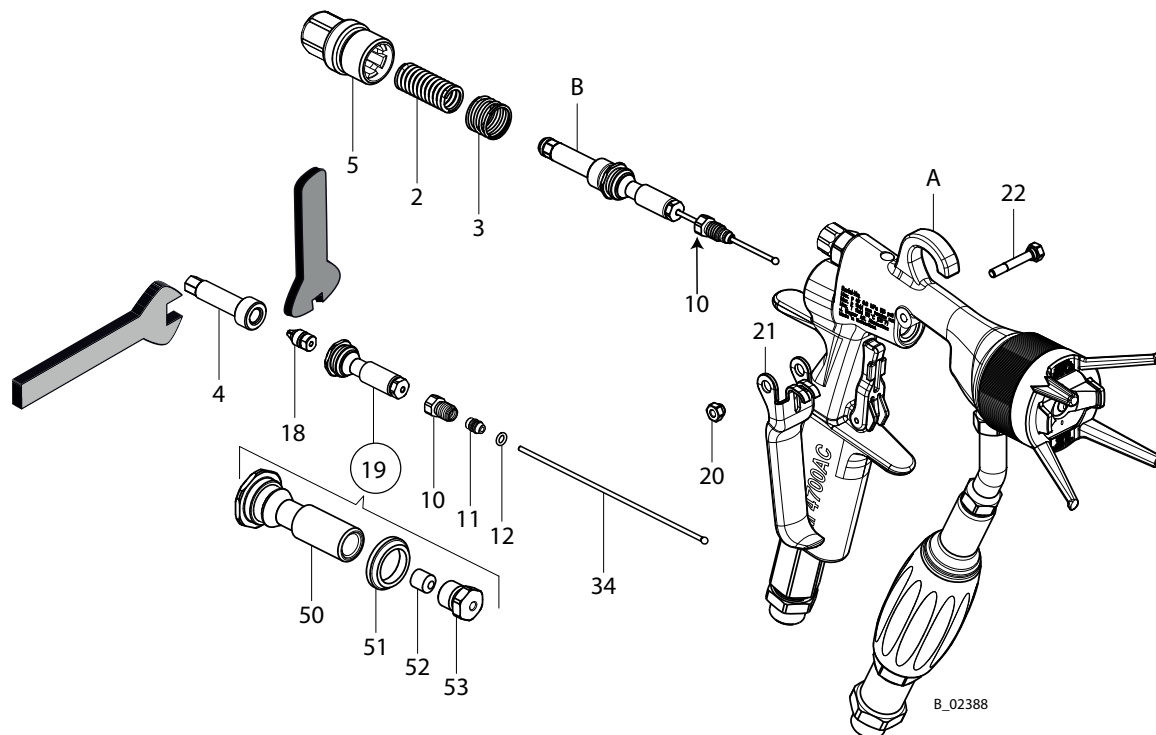
10.4 REPLACING PARTS ON THE VALVE ROD**10.4.1 DISASSEMBLING**

1. Relieve pressure from the gun and from the device in accordance with Chapter 7.3.3.
2. Clean and decommission in accordance with Chapter 8.1.3.
3. Secure the gun with the locking device.
4. Unscrew the spring cap (5) using a size 15 mm; 0.59 inch socket wrench and remove the pressure springs (2) and (3).
5. Loosen the screw (22) and remove together with the nut (20).
6. Remove the trigger guard (21).
7. Loosen the sealing screw (10) using a size 7 mm; 0.28 inch single open-end wrench.
8. Carefully pull the valve rod unit (B), together with sealing screw (10), rearwards out of the gun housing (A).
9. Hold the clamping sleeve (4) with a size 6 mm; 0.24 inch open-end wrench and loosen collet chuck (18) with a size 5 mm; 0.20 inch open-end wrench.
10. Carefully pull valve rod (34) out forwards. Replace relevant parts.

NOTICE**Unsuitable tool!**

Damage to seals and sealing surfaces

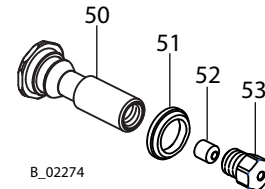
→ Do not hold the valve rod with pliers or a similar tool.



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10.4.2 REPLACING VALVE TAPPET SEALS

1. Hold valve tappet (50) in place with size 13 mm; 0.51 inch open-end wrench on and unscrew cover (53) with a size 7 mm; 0.28 inch single open-end wrench.
2. Remove the air valve seal (51) and seal (52) and replace with new seals. For the assembly of the air valve seal (51) a special tool (Order No. 179989) is necessary.
3. Screw the valve tappet (50) and cover (53) together by hand. Carefully tighten in small increments with a 7 mm; 0.28 inch and 13 mm; 0.51 inch open-end wrench until a slight resistance is perceptible when moving the valve rod (34) in the valve tappet.

**Note:**

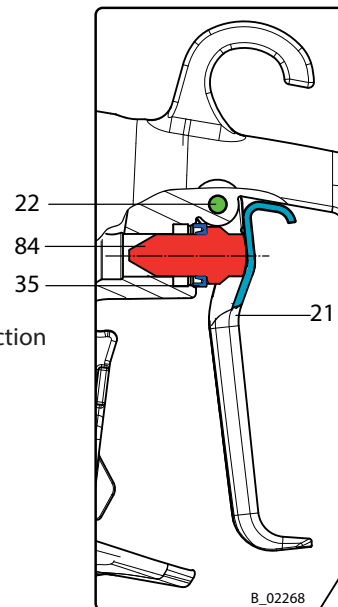
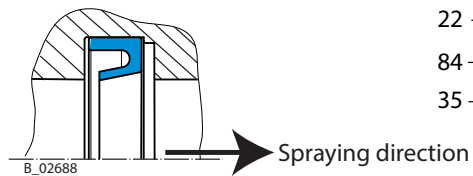
The seal (52) can be pulled out of the cover (53) with the help of an eye bolt.

10.4.3 REPLACING THE ROD SEAL (35)

1. Carefully pull the rod seal (35) out of the gun housing.
2. Clean sealing surfaces in the gun housing.
3. Fit the new rod seal (35) to the rod seal tool (84).

Note:

Note the installation position of the rod seal (35).



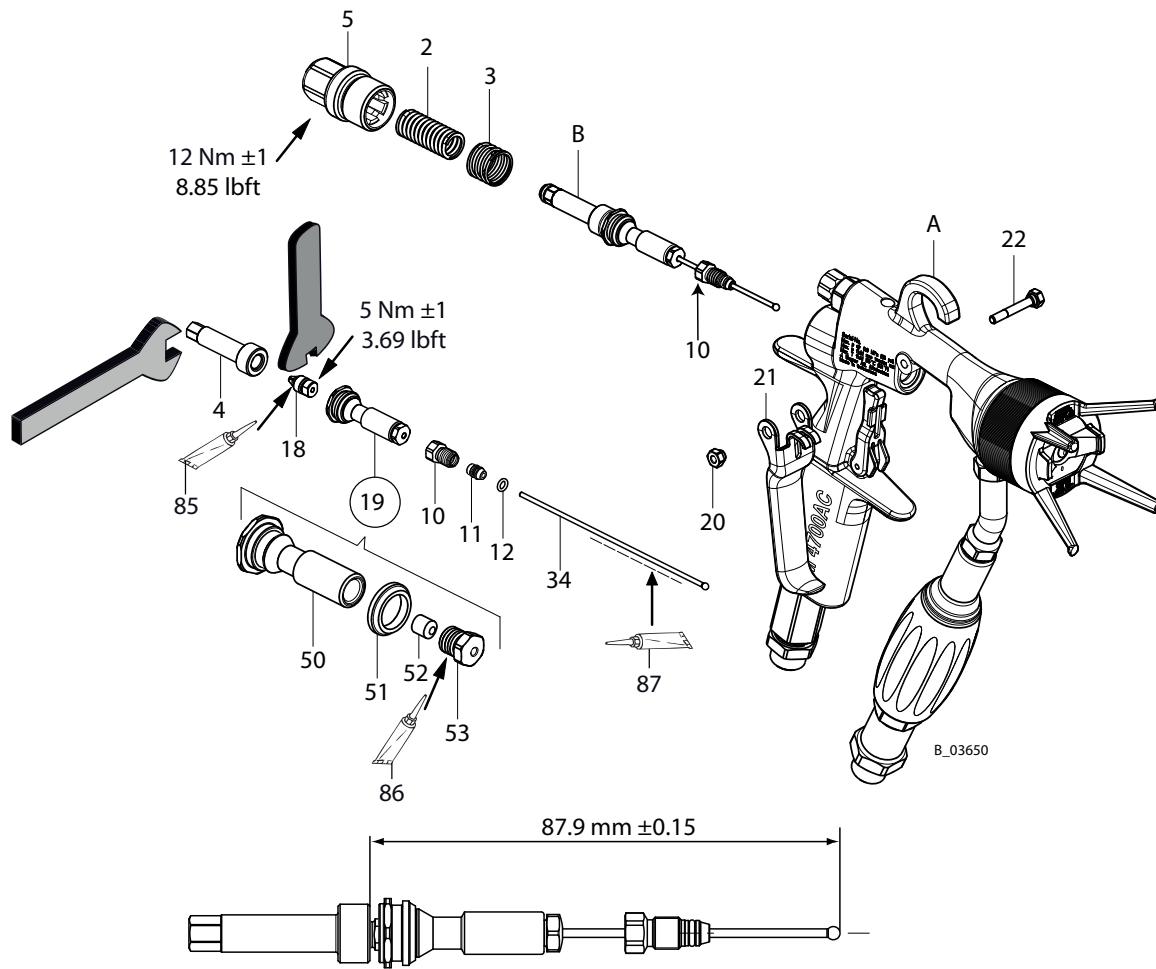
4. Insert the rod seal tool (84) together with the rod seal (35) into the drilled hole.
5. Fit the trigger guard (21) with screw (22) to the gun and
6. carefully push the tool with rod seal (35) over the trigger guard (21) into the recess in the housing.
7. Remove the trigger guard (21), screw (22) and rod seal tool (84).

10.4.4 ASSEMBLY

1. Attach the sealing collar (11) to the valve rod (34) together with the inserted O-ring (12) and sealing screw (10).
2. Push the completely assembled valve tappet (19) onto the valve rod (34).
3. Screw the collet chuck (18) into the clamping sleeve (4) (do not tighten).
4. Insert the preassembled valve rod into the preassembled clamping sleeve (4 and 18) up to the button stop.
5. Hold the clamping sleeve (4) with size 6 mm; 0.24 inch wrench in position, screw the preassembled valve rod to the clamping sleeve and tighten with a size 5mm; 0.20 inch open-end wrench, tightening torque 5 ± 1 Nm; 3.69 lbft. Note reference dimension.
6. Carefully insert the complete valve rod (B) into the gun housing.
7. Screw in the sealing screw (10) but do not tighten yet.
8. Position the trigger guard (21) and fasten with screw (22) and nut (20).
9. Insert the pressure springs (3) and (2) and screw on the spring cap (5), tightening torque 12 ± 1 Nm; 8.85 lbft.
10. Carefully tighten the sealing collar (11, 12) over the sealing screw (10). Ensure that the trigger guard runs smoothly.
11. Commissioning in accordance with Chapter 6.8.

Note:

Only use silicone and resin-free grease.

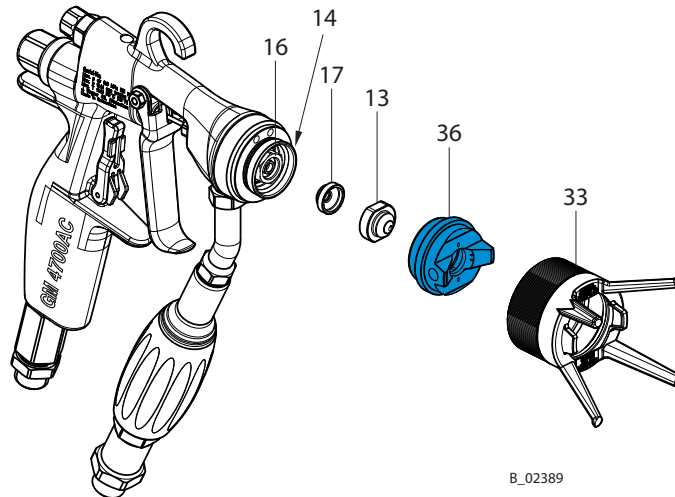


10.5 REPLACING THE NOZZLE SEAL**NOTICE****Defective nozzle seal!**

Material sprays into the air cap next to the nozzle
Risk of contamination

- Do not clean the nozzle seal with sharp-edged objects.
- Replace the nozzle seal if the sealing surface is damaged.

1. Relieve pressure from the gun and from the device in accordance with Chapter 7.3.3.
2. Clean and decommission in accordance with Chapter 8.1.3.
3. Secure the gun with the locking device.
4. Unscrew the union nut with nozzle guard (33).
5. Remove the air cap (36) together with the nozzle (13).
6. Carefully release the nozzle seal (17) with the help of a screwdriver.
7. Attach the new nozzle seal to the valve housing (16).
8. Complete the gun according to Chapter 7.3.4.



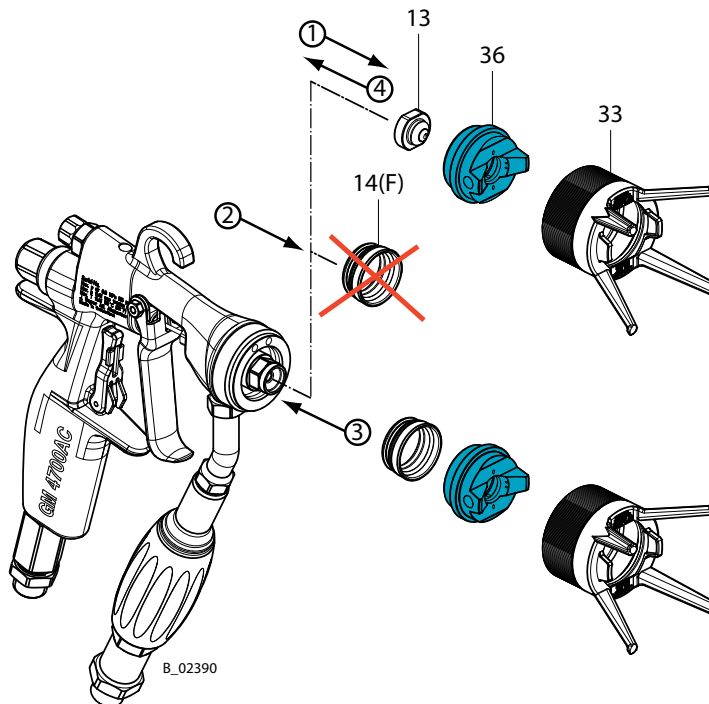
10.6 REPLACING THE "AIR" SEALING RING**NOTICE****Shaping air and atomizer air not separate!**

Poor spray pattern

Spray jet cannot be adjusted.

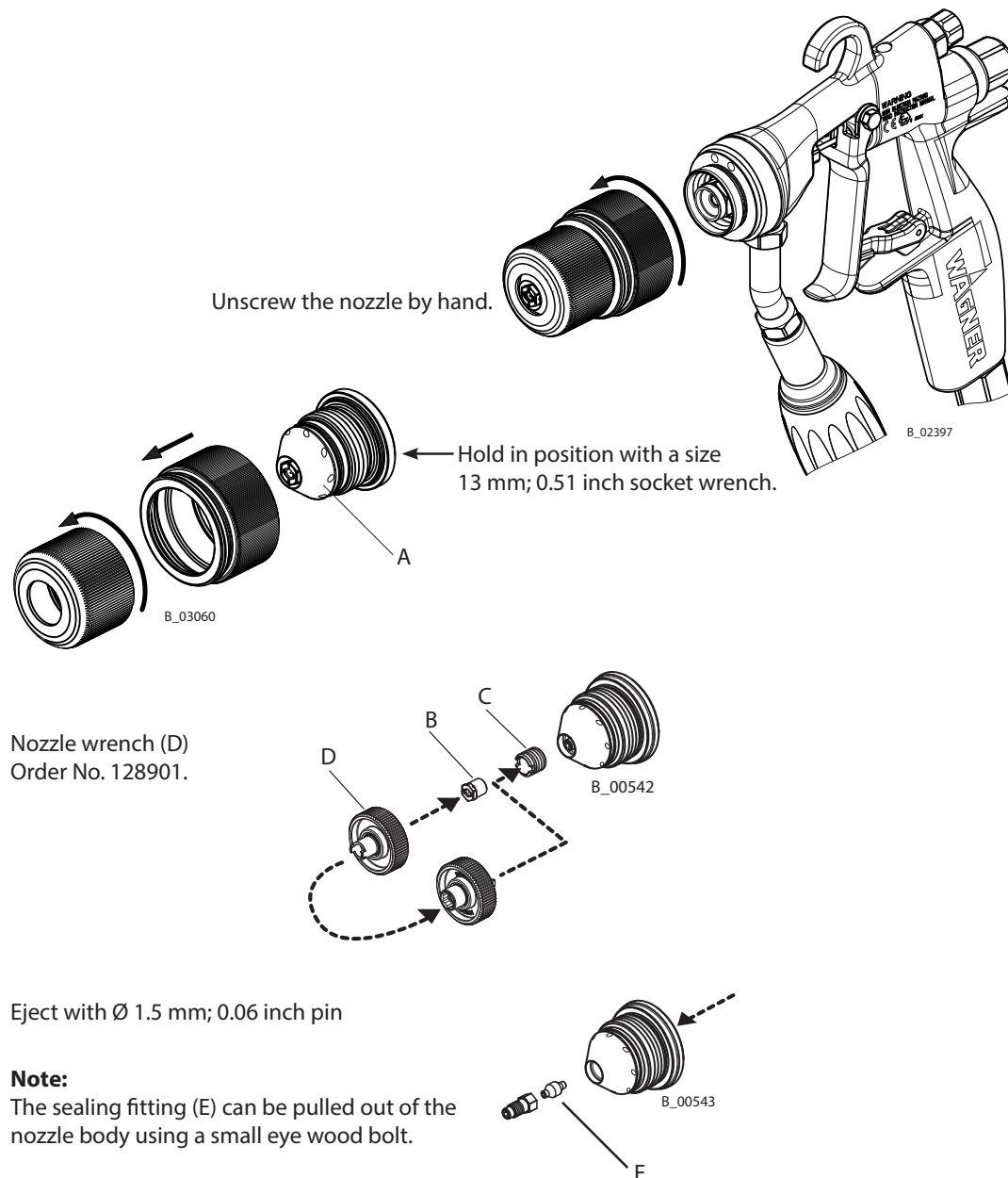
→ Treat the distributor seal (F) with care.

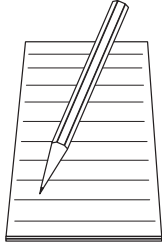
1. Relieve pressure from the gun and from the device in accordance with Chapter 7.3.3.
2. Clean and decommission in accordance with Chapter 8.1.3.
3. Secure the gun with the locking device.
4. Unscrew the union nut with nozzle guard (33).
5. Remove the air cap (36) together with the nozzle (13).
6. Remove the defective sealing ring (14/F) with the help of pipe tongs or with a large screwdriver.
7. **Assembly:** attach the new distributor seal (14/F) to the air cap (36).
8. Place the air cap, together with sealing ring (14/F), into the gun body.
9. Attach the union nut (33) and screw it in until the sealing ring snaps into place in the mounting groove (audible snap).
10. Demount the union nut (33) and air cap (36) and complete the spray gun according to Chapter 7.3.4.



10.7 REPLACING THE SEALING FITTING OF THE ROUND JET NOZZLE

NOTICE
<p>Defective nozzle body! Poor spray pattern → Handle the nozzle body (A) with care.</p>





A series of horizontal lines for writing, starting from the top of the page and extending down to the bottom, providing space for notes or additional information.



10.8 REPLACE FILTER CONNECTION (ONLY GM 4700AC)

10.8.1 REQUIRED TOOLS AND AIDS

The following tools are required for carrying out the repair work on the gun described below:



- Filter connection GM 4700AC, complete Order No. 2320114
- Open-end wrench size SW 13; 0.51 inch
- Loctite 638
- Hot-air gun
- Suitable oven for curing the adhesive

10.8.2 SAFETY INSTRUCTIONS

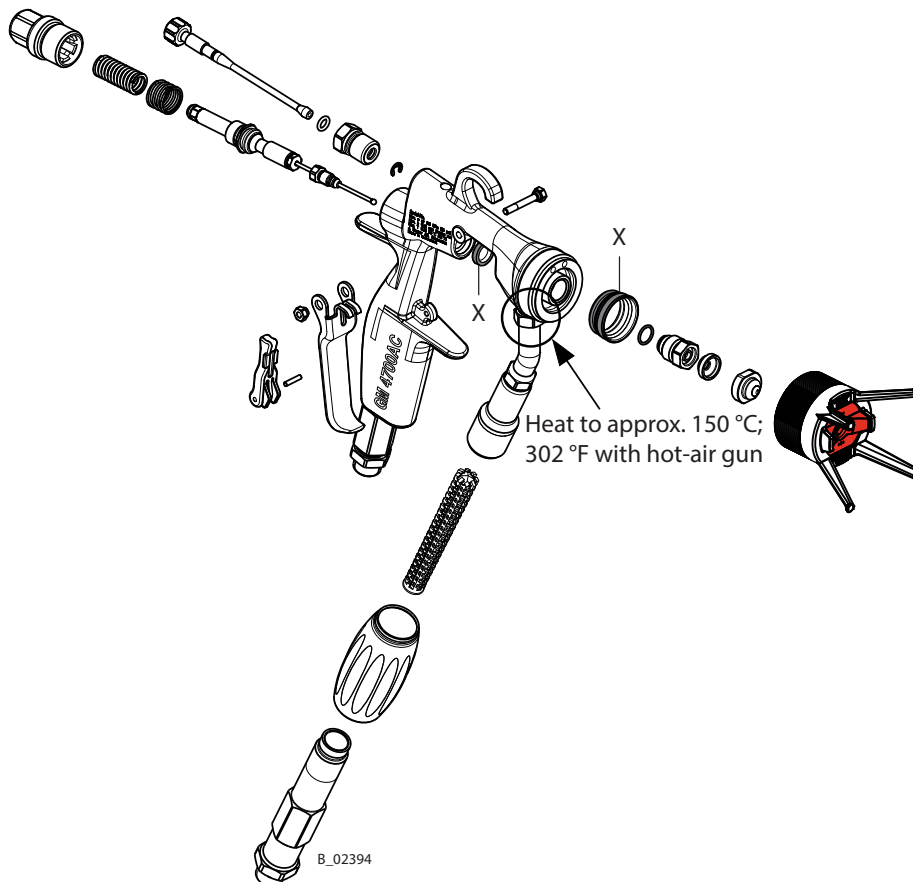
	 WARNING
	Incompatibility of cleaning agent and working medium! Risk of explosion and danger of poisoning by toxic gases → Examine the compatibility of the cleaning agents and working media on the basis of the safety data sheets.

10.8.3 DISASSEMBLY

1. Dismount all movable and heat-sensitive (positions X) of the spray gun.
2. Use the air gun to heat the area around the hollow screw to approx. 150 °C; 302 °F.



	 WARNING
	<p>Hot gun housing! Burns</p> <p>→ Wear protective gloves when dismantling the filter connection</p>

3. Loosen the hollow screw with a size SW13; 0.51 inches open-end wrench, then remove the filter connection.
4. Thoroughly clean all re-usable parts with a suitable solvent.

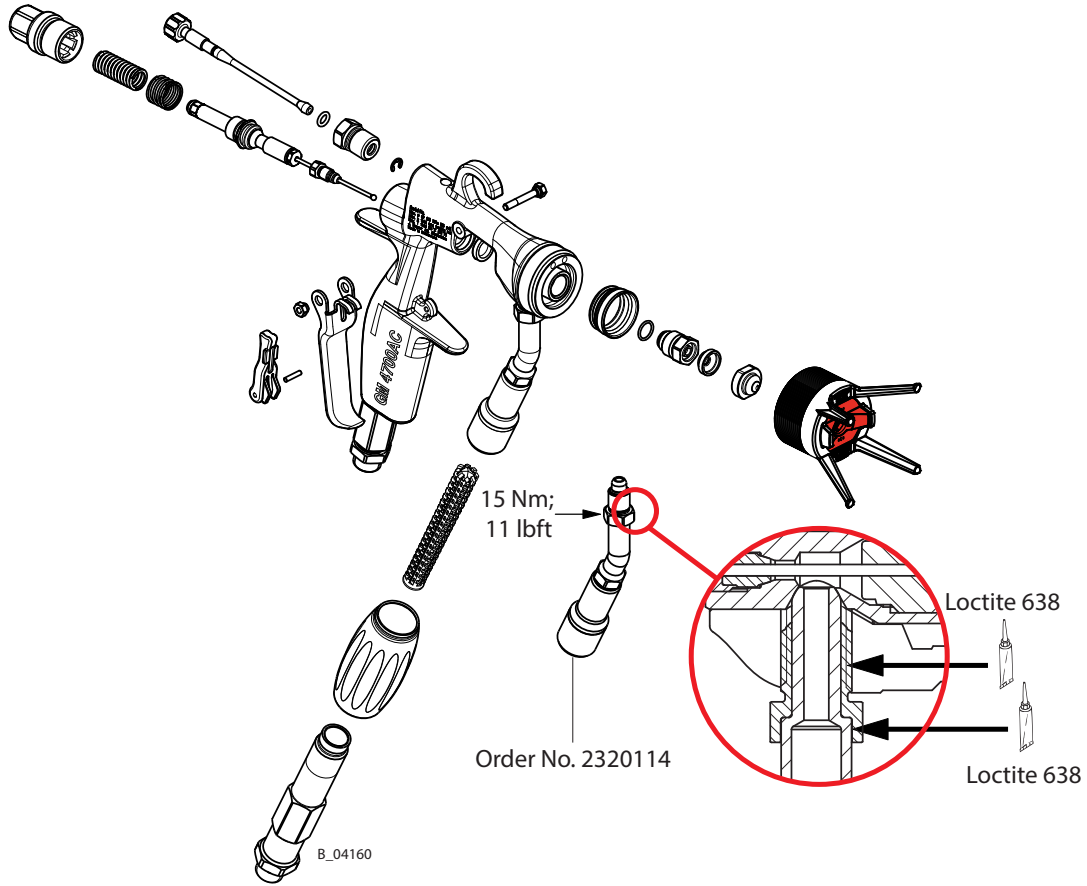


10.8.4 ASSEMBLY

1. Apply the Loctite 638 to the thread and between the hollow screw and filter connection.
2. Put the filter connection into the gun connection, align and tighten the hollow screw with a tightening torque of 15 Nm; 11 lbft.
Exceeding the allowable torque will damage the filter connection.
3. Harden the adhesion point in the housing in a oven at 40 °C; 104 °F for at least 30 minutes.

	 WARNING
	Defective parts! Leakage caused by defective parts The resulting spray jet can inject product into your body (skin, eyes etc.) → Always replace defective parts, o-rings and seal sets. → Ensure that adhesion points are clean and grease-free. → Do not exceed the specified torque of 15 Nm; 11 lbft!

4. After cooling off, completely assemble the spray gun. In doing so, note the assembly information in the spare part drawing in Chapter 14.2 of the operating manual.
5. Use a suitable medium to check the spray gun for leaks at 25 MPa; 250 bar; 3626 psi or 16 MPa; 160 bar; 2320 psi.



11 FUNCTIONAL CHECK AFTER REPAIR

After all repairs, the gun must be checked for safe condition before recommissioning. The necessary scope of inspection and testing depends on the repair carried out and must be documented by the repair staff.

Assembly inspection	
Activities	Aid tools
<p>1. Leak test</p> <ul style="list-style-type: none"> - Connect 1 bar; 0.1 MPa; 14.50 psi and 8 bar; 0.8 MPa; 116 psi air pressure to the air connection and product connection. <p>Place the gun completely into the water bath and check all sealing points with 1 bar; 0.1 MPa; 14.50 psi and 8 bar; 0.8 MPa; 116 psi for leaks.</p> <p>At 8 bar; 0.8 MPa; 116 psi bar, the gun must be completely sealed.</p> <p>At 1 bar; 0.1 MPa; 14.50 psi, a slight leak can be tolerated: 5 air bubbles per minute</p>	<p>Air connection 1 bar / 8 bar</p> <p>Water bath</p>
Injection and final inspection	
Activities	Aid tools
<p>2. Trigger lever function test</p> <ul style="list-style-type: none"> - The trigger lever must be pulled as far as it will go. <p>Make sure that the trigger lever can move slightly in its rest position.</p> <ul style="list-style-type: none"> - Put the trigger lever locking device into the locking position, configure the air product pressure, and pull the trigger lever. <p>Neither air nor product may leak or escape.</p> <ul style="list-style-type: none"> - Check that the trigger lever locking device is not reset by the trigger lever when pulling in the locking position. 	<p>Manual inspection</p>
<p>3. Leak test</p> <ul style="list-style-type: none"> - Attach the gun, slowly increase the product pressure in increments using a suitable medium until the maximum pressure (250 bar, 25 MPa; 3625 psi or 160 bar, 16 MPa; 2320 psi) specified on the type plate is reached. - Trigger and flush the gun multiple times. - Make sure that: <ul style="list-style-type: none"> - Is the product connection sealed when the gun is closed? - Is the product valve sealed? - No product discharge at the valve rod seal? <p>If product leaks, tighten the sealing screw:</p> <p>The sealing screw on the valve rod must be tightened.</p> <p>Tighten the sealing screw with the open-end wrench if necessary. (In doing so, it is important to make sure that the valve rod still runs smoothly and the gun closes reliably).</p>	<p>Visual inspection</p> <p>The 160 bar variant is inspected at 160 bar.</p> <p>250 bar or 160 bar product connection</p> <p>Atomizing air 3 bar</p> <p>Open-end wrench size SW 7 mm for the sealing screw</p>

Activities	Aid tools
<p>4. Checking the switching sequence</p> <ul style="list-style-type: none"> - Attach the AC nozzle and air cap. - Set the injection pressure to 100 bar; 10 MPa; 1450.40 psi, pull the trigger guard slowly, note the switching sequence "switch on" and "switch off". <p>Switch on: atomizing air / shaping air on, product on Switch off: product off, atomizing air / shaping air off</p>	Visual inspection
<p>5. Flushing the gun</p> <ul style="list-style-type: none"> - Switch off the air and material supply, open flushing valve, pull trigger lever and flush gun or blow out with air. Flush the gun without the valve and air cap. In doing so, you can remove the air connection hose. - Close the flushing valve; when almost no material is escaping any longer, remove the product connection hose and blow the rest of the test medium out of the gun using an air gun. 	

12 DISPOSAL

When the equipment must be scrapped, please differentiate the disposal of the waste materials.

The following materials have been used:

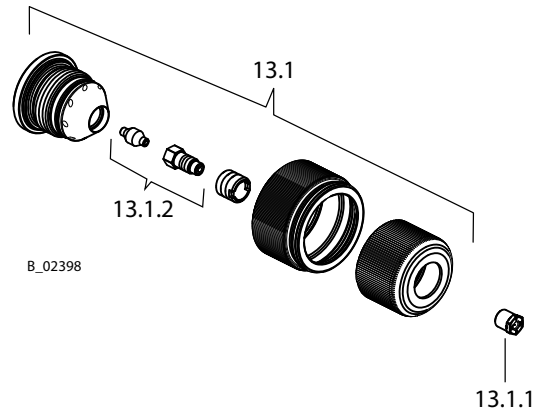
- Stainless steel
- Aluminum
- Elastomers
- Plastics
- Carbide

The consumable products (lacquers, adhesives, solvents) must be disposed of in accordance with the applicable specific standards.

13 ACCESSORIES

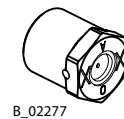
13.1 ROUND JET NOZZLE CAP

Order No.	Designation
394180	Round jet nozzle cap (without nozzle insert)



13.1.1 NOZZLE INSERTS RXX

Order No.	Designation	Marking	Volumetric flow rate*	Jet Ø**
132720	Nozzle insert R11	11	0.16; 160	approx. 250; 9.84
132721	Nozzle insert R12	12	0.22; 220	approx. 250; 9.84
132722	Nozzle insert R13	13	0.27; 270	approx. 250; 9.84
132723	Nozzle insert R14	14	0.34; 340	approx. 250; 9.84
132724	Nozzle insert R15	15	0.38; 380	approx. 250; 9.84
132725	Nozzle insert R16	16	0.43; 430	approx. 250; 9.84
132726	Nozzle insert R17	17	0.48; 480	approx. 250; 9.84
132727	Nozzle insert R18	18	0.53; 530	approx. 250; 9.84
132728	Nozzle insert R19	19	0.59; 590	approx. 250; 9.84
132729	Nozzle insert R20	20	0.65; 650	approx. 250; 9.84
132730	Nozzle insert R21	21	0.71; 710	approx. 250; 9.84
132731	Nozzle insert R22	22	0.77; 770	approx. 250; 9.84

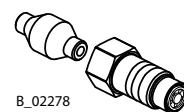


* Volumetric flow in l/min; cc/min water at 10 MPa; 100 bar; 1450 psi

** Jet Ø in mm; inches at a distance of 30 cm; 11.8 inches from the object and at a pressure of 10 MPa; 100 bar; 1450 psi, synthetic resin paint, 20 DIN 4 seconds.

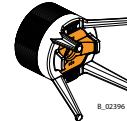
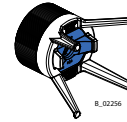
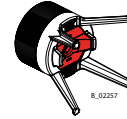
13.1.2 COMPLETE NOZZLE SCREW JOINT

Order No.	Designation
132922	Nozzle screw joint, complete

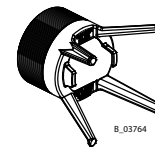


13.2 AIR CAPS

Order No.	Designation
2313494	Air cap LV plus (red) for low viscosity products
2313497	Air cap HV plus (blue) for high viscosity products
2313498	Air cap LA plus (bronze)

**13.3 ANODIZED UNION NUT**

Order No.	Designation
2330340	Completely anodized union nut (without air cap) suitable for processing water-based paints





13.4 AIRCOAT NOZZLES ACF3000

Article no. 379xxx In order to determine the article number of a nozzle, please select the number from the table and replace the three xxx.
Example: nozzle 411 -> Article number 379411



Size	Spray angle							Material filter (mesh)		Drilled hole inch (mm)	Material flow* l/min (gal/min)
	10°	20°	30°	40°	50°	60°	80°	Gap-filter	Gun filter		
07	107	207		407				200	200	0,007 (0,18)	0,23 (0,061)
09		209	309	409	509	609		100	200	0,009 (0,23)	0,26 (0,069)
11	111	211	311	411	511	611	811	100	150	0,011 (0,28)	0,38 (0,100)
13	113	213	313	413	513	613	813	60	100	0,013 (0,33)	0,55 (0,145)
15	115	215	315	415	515	615	815		100	0,015 (0,38)	0,75 (0,198)
17		217	317	417	517	617	817		50	0,017 (0,43)	0,96 (0,254)
19		219	319	419	519	619	819			0,019 (0,48)	1,20 (0,317)
21		221		421	521	621	821			0,021 (0,53)	1,45 (0,383)
23				423		623	823			0,023 (0,58)	1,79 (0,473)

B_02399

55	100	145	195	250	300	400
(2,17)	(3,94)	(5,71)	(7,68)	(9,84)	(11,81)	(15,75)
∅ Spray pattern width mm (inch)**						

- * Tested with water and 100 bar pressure.
- ** Tested with 110 bar; 1595 psi, 30 cm; 11.81 inches distance and lacquer 56DIN-4s.

13.5 AIRCOAT PRE-ATOMIZER NOZZLES ACF3000 PLUS

Article No. 321xxx In order to determine the article number of a nozzle, please select the number from the table and replace the three xxx.
Example: nozzle 410 -> article number 321410



Size	Spray angle					Material filter (mesh)		Drilled hole inch (mm)	Material flow* l/min (gal/min)
	20°	30°	40°	50°	60°	Gap-filter	Gun filter		
08	208	308	408	508		200	200	0,008 (0,20)	0,22 (0,058)
10	210	310	410	510	610	100	200	0,010 (0,25)	0,32 (0,084)
12	212	312	412	512	612	100	150	0,012 (0,30)	0,44 (0,116)
14	214	314	414	514	614	80	100	0,014 (0,36)	0,60 (0,159)
16	216	316	416	516	616		100	0,016 (0,41)	0,76 (0,201)
18	218	318	418	518	618		50	0,018 (0,46)	0,92 (0,244)
20		320	420		620			0,020 (0,51)	0,11 (0,030)
22			422		622			0,022 (0,56)	0,14 (0,036)

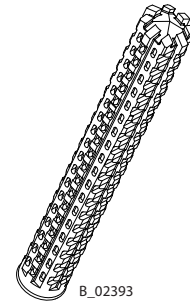
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100	145	195	250	300
(3,94)	(5,71)	(7,68)	(9,84)	(11,81)
∅ Spray pattern width mm (inch)**				

- * Tested with water and 100 bar pressure.
- ** Tested with 110 bar; 1595 psi, 30 cm; 11.81 inches distance and lacquer 56DIN-4s.

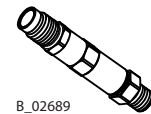
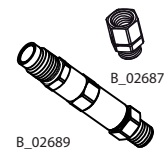
13.6 FILTER INSERT

Order No. for 10 pieces	Filter sizes	Mesh	Use for nozzles
2315723	Filter insert, red	200	0.007" - 0.011"
2315724	Filter insert, blue	150	0.011" - 0.013"
2315725	Filter insert, yellow	100	0.013" - 0.019"
2315726	Filter insert, white	50	0.019" - 0.023"



13.7 SWIVEL JOINTS

Order No.	Designation
394933	Swivel joint set for product (NPSM 1/4") and air hose connection (G1/4")
394928	Swivel joint for product connection (NPSM 1/4")
364938	Swivel joint for air connection G1/4"

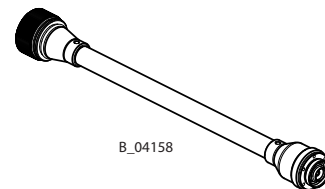


13.8 HOSES

Order No.	Designation (All AC hose sets consist of a section each of product, air and protective hose)
2309705	AC hose set DN3 PN270 1/4"NPS 7.5 m PA T Material: 1/4"NPS, 7.5 m; 24.6 ft, DN 3; ID 0.12 inch, 27 MPa; 270 bar; 3916 psi Air: G1/4", 7.5 m; 24.6 ft, DN 6 mm; ID 0.24 inch, 1 MPa, 10 bar; 145 psi
2309706	AC hose set DN4 PN270 1/4"NPS 7.5 m PA T Material: 1/4"NPS, 7.5 m; 24.6 ft, DN 4; ID 0.16 inch, 27 MPa; 270 bar; 3916 psi Air: G1/4", 7.5 m; 24.6 ft, DN 6 mm; ID 0.24 inch, 1 MPa, 10 bar; 145 psi
2312801	AC hose set DN4 PN270 1/4"NPS 10 m PA T Material: 1/4"NPS, 10 m; 32.8 ft, DN 4; ID 0.16 inch, 27 MPa; 270 bar; 3916 psi Air: G1/4", 10 m; 32.8 ft, DN 6 mm; ID 0.24 inch, 1 MPa, 10 bar; 145 psi
2309634	AC hose set DN4 PN270 1/4"NPS 15 m PA T Material: 1/4"NPS, 15 m; 49.2 ft, DN 4; ID 0.16 inch, 27 MPa; 270 bar; 3916 psi Air: G1/4", 15 m; 49.2 ft, DN 6 mm; ID 0.24 inch, 1 MPa, 10 bar; 145 psi
2309635	AC hose set DN4 PN270 1/4"NPS 20.0 m PA T Product: 1/4"NPS, 20 m; 65.6 ft, DN 4; ID 0.16 inch, 27 MPa; 270 bar; 3916 psi Air: G1/4", 20 m; 65.6 ft, DN 6 mm; ID 0.24 inch, 1 MPa, 10 bar; 145 psi
2322656	AC hose set DN3 PN270 1/4"NPS 3 m PA T Product: 1/4"NPS, 3 m; 9.84 ft, DN 3; ID 0.12 inch, 27 MPa; 270 bar; 3916 psi Air: G1/4", 3 m; 9.84 ft, DN 6 mm; ID 0.24 inch, 1 MPa, 10 bar; 145 psi
3676437	Protective hose

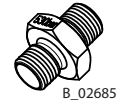
13.9 NOZZLE EXTENSIONS

Order No.	Designation
394090	Nozzle extension AC 300
394091	Nozzle extension AC 600



13.10 MISCELLANEOUS

Order No.	Designation
9997001	Nozzle cleaning brush
394941	Service set GM 4600/ 4700AC
367560	Double connector NPSM1/4" (external thread), for material hose extension
9985720	Double nipple G1/4" (external thread), for air hose extension
2324747	Sealing collar UHMW-PE, complete, suitable for 2K-PU paints



B_02685



B_02686

14 SPARE PARTS

14.1 HOW CAN SPARE PARTS BE ORDERED?

Always supply the following information to ensure delivery of the right spare part:

Order number, designation, and quantity

The quantity need not be the same as the number given in the quantity column "Stk" on the lists. This number merely indicates how many of the respective parts are used in each component.

The following information is also required to ensure smooth processing of your order:

- Billing address
- Delivery address
- Name of the person to be contacted in the event of any queries
- Type of delivery (normal mail, express delivery, air freight, courier, etc.)



Identification in spare parts lists

Explanation of column "K" (labeling) in the following spare parts lists:

- ◆ Wearing parts

Note: These parts are not covered by warranty terms.

- Not part of the standard equipment but available as a special accessory.

	 DANGER
<p>Incorrect maintenance/repair! Danger to life and damage to the device.</p> <ul style="list-style-type: none"> → Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts. → Only repair and replace parts that are listed in the "Spare Parts" chapter and that are assigned to the device. → Before all work on the device and in the event of work interruptions: <ul style="list-style-type: none"> - Switch off the energy/compressed air supply. - Relieve the pressure from the spray gun and device. - Secure the spray gun to prevent actuation. → Observe the operating manual and service manuals at all times when carrying out work. 	

14.2 SPARE PARTS GM 4700AC

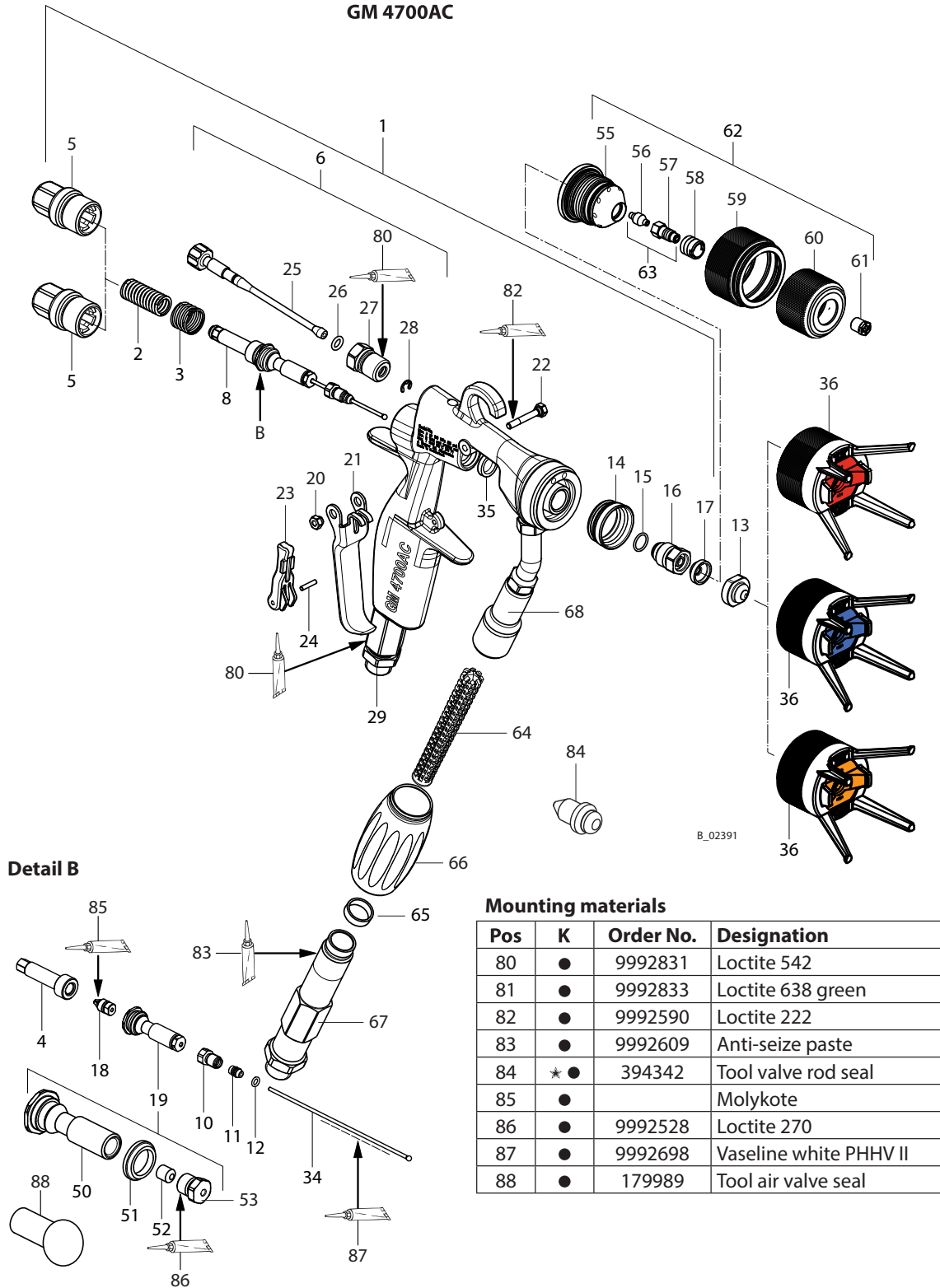
Spare parts lists GM 4700AC

Pos	K	Stk	16 MPa	25 MPa	Designation
			Order No.	Order No.	
1		1	---	2313585	GM 4700AC 25 MPa NPSM1/4"
2		1	9999501	9999501	Helical spring on the product side
3		1	9999500	9999500	Helical spring on the air side
4		1	2312140	2312140	Tension sleeve
5		1	394335	-	Spring cap 16 MPa; 160 bar; 2320 psi
5		1	-	394333	Spring cap 25 MPa; 250 bar; 3625 psi
6	◆	1	394924	394924	Air tappet, complete
8	◆	1	2311320	2311320	Valve rod unit, complete
10		1	394327	394327	Sealing screw
11	★◆	1	394328	394328	Sealing collar
11	◆●	1	2324747	2324747	Sealing collar UHMW-PE, complete (including pos 12)
12	★◆	1	9971445	9971445	O-ring
13	◆●	1	379xxx	379xxx	AC nozzle (see Chapter 13.4)
13	◆●	1	321xxx	321xxx	AC nozzle plus (see Chapter 13.5)
14	★◆	1	394339	394339	Sealing ring
15	★◆	1	9974245	9974245	O-ring
16	★◆	1	394922	394922	Valve housing, complete
17	★◆	1	394338	394338	Nozzle seal
18		1	2312149	2312149	Collet chuck
19		1	394257	394257	Valve tappet, complete
20		1	394318	394318	Nut
21		1	394601	394601	Trigger guard
22		1	394319	394319	Screw
23		1	394334	394334	Safety clip
24		1	9935088	9935088	Parallel pin
25		1	394313	394313	Air tappet
26	★◆	1	9974243	9974243	O-ring
27		1	394303	394303	Mounting bracket
28	★◆	1	9921906	9921906	Lock washer
29		1	2324766	2324766	Air swivel, complete
34	★◆	1	394920	394920	Valve rod, complete
35	★◆	1	394323	394323	Rod seal
36	◆●	1	2313494	2313494	Air cap LV plus (red)
36	◆●	1	2313497	2313497	Air cap HV plus (blue)
36	◆●	1	2313498	2313498	Air cap LA plus (bronze)
50		1	394309	394309	Valve tappet
51	★◆	1	179338	179338	Air valve seal
52	★◆	1	179395	179395	Seal

◆ = Wearing part

★ = Included in service set

● = Not part of the standard equipment but available as a special accessory.



Spare parts lists GM 4700AC

Pos	K	Stk	16 MPa	25 MPa	Designation
			Order No.	Order No.	
53	★ ◆	1	394322	394322	Cap
55	●	1	394336	394336	Nozzle body
56	◆ ●	1	128327	128327	Sealing fitting
57	◆ ●	1	132516	132516	Nozzle screw joint, complete
58	●	1	132351	132351	Nozzle screwed connection holder
59	●	1	394308	394308	Union nut
60	●	1	394337	394337	Nozzle nut
61	◆ ●	1	132...	132...	Nozzle insert R (various dimensions see Chapter 13.1.1)
62	●	1	394180	394180	Round jet nozzle cap (see Chapter 13.1.)
63	◆ ●	1	132922	132922	Nozzle screw joint, complete
64	◆	1	--	--	Filter insert, yellow (middle), 100 mesh per inch*
	◆ ●	1	2315723	2315723	*Filter insert, red (fine), 200 mesh per inch, 10 pieces
	◆ ●	1	2315724	2315724	*Filter insert, blue (middle), 150 mesh per inch, 10 pieces
	◆ ●	1	2315725	2315725	*Filter insert, yellow (middle), 100 mesh per inch, 10 pieces
	◆ ●	1	2315726	2315726	*Filter insert, white (coarse), 50 mesh per inch, 10 pieces
65	★ ◆	1	128389	128389	Seal
66	◆	1	2311491	2311491	Turning handle
67		1	2320016	2320016	Filter housing, complete
68		1	2320114	2320114	Filter connection GM 4700AC, complete
	●	1	394941	394941	Service set GM 4600/4700AC

◆ = Wearing part

★ = Included in service set

● = Not part of the standard equipment but available as a special accessory.

14.3 SPARE PARTS GM 4700AC-H

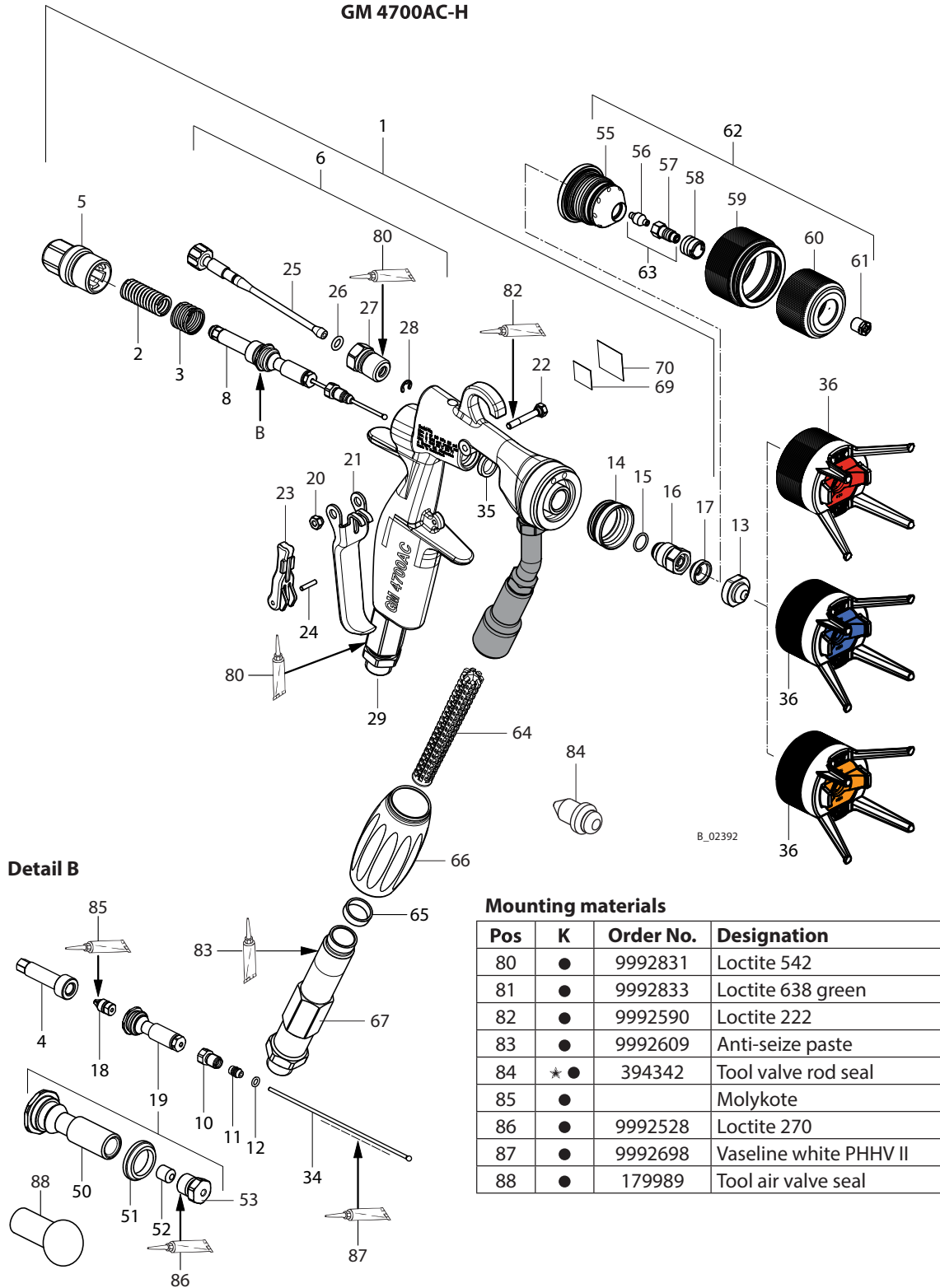
Spare parts list GM 4700AC-H

Pos	K	Qty	25 MPa	Designation
			Order No.	
1		1	2315700	GM 4700AC-H, 25 MPa NPSM1/4"
2		1	9999501	Helical spring on the product side
3		1	9999500	Helical spring on the air side
4		1	2312140	Tension sleeve
5		1	394333	Spring cap 25 MPa; 250 bar; 3625 psi
6	◆	1	394924	Air tappet, complete
8	◆	1	2311320	Valve rod unit, complete
10		1	394327	Sealing screw
11	★ ◆	1	394328	Sealing collar
11	◆ ●	1	2324747	Sealing collar UHMW-PE, complete (including pos 12)
12	★ ◆	1	9971445	O-ring
13	◆ ●	1	379xxx	AC nozzle (see Chapter 13.4)
13	◆ ●	1	321xxx	AC nozzle plus (see Chapter 13.5)
14	★ ◆	1	394339	Sealing ring
15	★ ◆	1	9974245	O-ring
16	★ ◆	1	394922	Valve housing, complete
17	★ ◆	1	394338	Nozzle seal
18		1	2312149	Collet chuck
19		1	394257	Valve tappet, complete
20		1	394318	Nut
21		1	394601	Trigger guard
22		1	394319	Screw
23		1	394334	Safety clip
24		1	9935088	Parallel pin
25		1	394313	Air tappet
26	★ ◆	1	9974243	O-ring
27		1	394303	Mounting bracket
28	★ ◆	1	9921906	Lock washer
29		1	2324766	Air swivel, complete
34	★ ◆	1	394920	Valve rod, complete
35	★ ◆	1	394323	Rod seal
36	◆ ●	1	2313494	Air cap LV plus (red)
36	◆ ●	1	2313497	Air cap HV plus (blue)
36	◆ ●	1	2313498	Air cap LA plus (bronze)
50		1	394309	Valve tappet
51	★ ◆	1	179338	Air valve seal
52	★ ◆	1	179395	Seal

◆ = Wearing part

★ = Included in service set

● = Not part of the standard equipment but available as a special accessory.



Spare parts list GM 4700AC-H

Pos	K	Qty	25 MPa	Designation
			Order No.	
53	★ ◆	1	394322	Cap
55	●	1	394336	Nozzle body
56	◆ ●	1	128327	Sealing fitting
57	◆ ●	1	132516	Nozzle screw joint, complete
58	●	1	132351	Nozzle screwed connection holder
59	●	1	394308	Union nut
60	●	1	394337	Nozzle nut
61	◆ ●	1	132...	Nozzle insert R (various dimensions see Chapter 13.1.1)
62	●	1	394180	Round jet nozzle cap (see Chapter 13.1.)
63	◆ ●	1	132922	Nozzle screw joint, complete
64	◆	1	--	Filter insert, yellow (middle), 100 mesh per inch*
	◆ ●	1	2315723	*Filter insert, red (fine), 200 mesh per inch, 10 pieces
	◆ ●	1	2315724	*Filter insert, blue (middle), 150 mesh per inch, 10 pieces
	◆ ●	1	2315725	*Filter insert, yellow (middle), 100 mesh per inch, 10 pieces
	◆ ●	1	2315726	*Filter insert, white (coarse), 50 mesh per inch, 10 pieces
65	★ ◆	1	128389	Seal
66	★ ◆	1	2311491	Turning handle
67		1	2320016	Filter housing, complete
69	◆	1	9998910	Instruction label "hot surfaces"
70	◆	1	9998911	Protection label for 9998910
	●	1	394941	Service set GM 4600/4700AC

◆ = Wearing part

★ = Included in service set

● = Not part of the standard equipment but available as a special accessory.

15 WARRANTY AND CONFORMITY DECLARATIONS

15.1 IMPORTANT NOTES REGARDING PRODUCT LIABILITY

As a result of an EC regulation effective from January 1, 1990, the manufacturer shall only be liable for his product if all parts originate from him or are approved by him, and if the devices are properly mounted, operated and maintained.

The manufacturer will not be held liable or will only be held partially liable if third-party accessories or spare parts have been used.

With genuine WAGNER accessories and spare parts, you have the guarantee that all safety regulations are complied with.

15.2 WARRANTY CLAIM

Full warranty is provided for this device:

We will at our discretion repair or replace free of charge all parts which within 24 months in single-shift, 12 months in 2-shift or 6 months in 3-shift operation from date of receipt by the purchaser are found to be wholly or substantially unusable due to causes prior to the sale, in particular faulty design, defective materials or poor workmanship.

The type of warranty provided is such that the device or individual components of the device are either replaced or repaired as we see fit. The resulting costs, in particular shipping charges, road tolls, labor and material costs will be borne by us except where these costs are increased due to the subsequent shipment of the device to a location other than the address of the purchaser.

We do not provide warranty for damage that has been caused or contributed to for the following reasons:

Unsuitable or improper use, faulty assembly or commissioning by the purchaser or a third party, normal wear, negligent handling, defective maintenance, unsuitable coating products, substitute products and the influence of chemical, electrochemical or electrical agents, except when the damage is attributable to us.

Abrasive coating products such as red lead, emulsions, glazes, liquid abrasives, zinc dust paints and so forth reduce the service life of valves, packaging, spray guns, nozzles, cylinders, pistons etc. Wear and tear due to such causes are not covered by this warranty. Components that have not been manufactured by WAGNER are subject to the original warranty of the manufacturer.

Replacement of a component does not extend the period of warranty of the device.

The device should be inspected immediately upon receipt. To avoid losing the warranty, we or the supplier company are to be informed in writing about obvious faults within 14 days upon receipt of the device.

We reserve the right to have the warranty compliance met by a contracting company.

The services provided by this warranty are dependent on evidence being provided in the form of an invoice or delivery note. If the examination discovers that no warranty claim exists, the costs of repairs are charged to the purchaser.

It is clearly stipulated that this warranty claim does not represent any constraint on statutory regulations or regulations agreed to contractually in our general terms and conditions.

J. Wagner AG

15.3 CE DECLARATION OF CONFORMITY

Herewith we declare that the supplied version of

GM 4700AC 25 MPa
GM 4700AC-H 25 MPa



complies with the following guidelines:

2006/42/EC
94/9/EC

Applied standards, in particular:

DIN EN ISO 12100: 2010	DIN EN 13463-5: 2011
DIN EN 1127-1: 2011	DIN EN ISO 13732-1: 2008
DIN EN 1953: 2013	DIN EN ISO 4414: 2010
DIN EN ISO 14462: 2005 + A1 2009	DIN EN ISO 4413: 2010
DIN EN 13463-1: 2009	

Applied national technical standards and specifications, in particular:

BGR 500 Part 2, Chapter 2.36	BGI 740
BGR 500 Part 2, Chapter 2.29	ZH 1/406
TRBS 2153	

CE Certificate of Conformity

The CE certificate of conformity is enclosed with this product. If needed, further copies can be ordered through your WAGNER dealer by specifying the product name and serial number.

Order number: 2316429

15.4 NOTES ON GERMAN REGULATIONS AND GUIDELINES

- a) BGR 500 Part 2, Chapter 2.36 "Working with Liquid Ejection Devices"
- b) BGR 500 Part 2, Chapter 2.29 "Working with Coating Products"
- c) TRBS 2153 Avoiding ignition risks
- d) BGI 740 Painting rooms and equipment
- e) ZH 1/406 Guidelines for liquid ejection devices

Note: All titles can be ordered from Heymanns Publishing House in Cologne, or they can be found on the Internet.

WAGNER



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