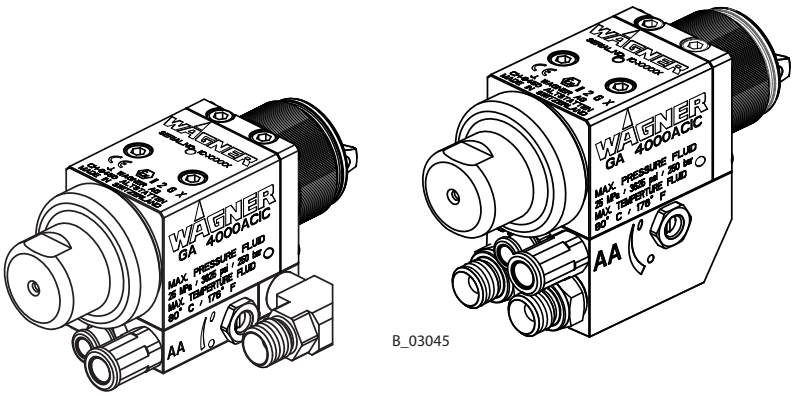
WAGNER

Translation of the Original Operating Manual

GA 4000ACIC-R
GA 4000ACIC-S

Version 06/2013

AirCoat
Automatic Spray Gun



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CE

Ex II 2GX (Atex 95)

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1 ABOUT THIS OPERATING MANUAL

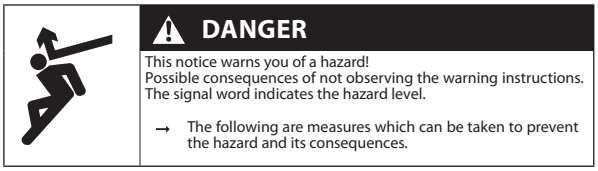
1.1 PREFACE

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 operating and service staff.
Operating and service staff should be instructed according to the safety instructions.
The device may only be operated in compliance with this operating manual.
This equipment can be dangerous if it is not operated according to the instructions in this operating manual.

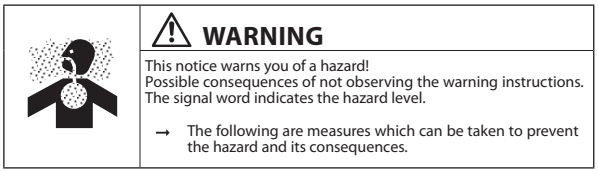
1.2 WARNINGS, NOTICES, AND SYMBOLS IN THIS OPERATING MANUAL

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

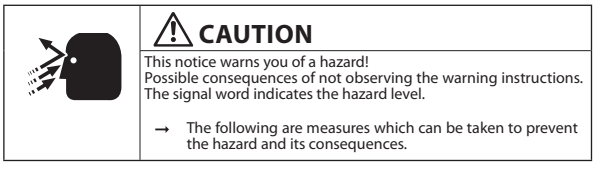
Danger - immediate risk of danger.
Non-observance will result in death or serious injury.



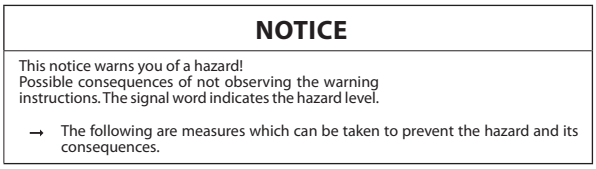
Warning - possible imminent danger.
Non-observance may result in death or serious injury.



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



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



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	2312955	English	2312956
French	2312957	Italian	2312958
Spanish	2312959	Swedish	2316798
Russian	2327992		

1.4 ABBREVIATIONS IN THE TEXT

Stk	Number of pieces
Pos	Position
K	Marking in the spare parts lists
Order No.	Order number
RP	Replaceable Packing (replaceable packing)
PTFE	Polytetrafluoroethylene
GF	Fiber optics
PE	Polyethylene
UWMW-PE	Ultra-high molecular polyethylene
FPM	Fluoropolymer rubber (Viton)
POM	Polyoxymethylene (Acetal)
PA	Polyamide
SW	Wrench size for tool
TX	Torx size (tool)

2 CORRECT USE

2.1 DEVICE TYPES

AirCoat automatic spray gun with the type designation:

GA 4000ACIC

2.2 TYPE OF USE

The device is suitable for processing liquid products such as paints and lacquers in accordance with their classification into explosion classes IIA or IIB, especially coating products using the AirCoat process.

2.3 USE IN AN EXPLOSION HAZARD AREA

The device can be employed in explosion hazard zones (Zone 1).

2.4 SAFETY PARAMETERS

WAGNER accepts no liability for any damage arising from incorrect use.

- → Use the device only 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 have previously been trained on the basis of 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 PRODUCTS

Top-coat paints, primer paints, corrosion protection, textured paints, lyes, staining solvents, clear paints, separating agents, etc. with a solvent or water basis.

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

2.6 REASONABLY FORESEEABLE MISUSE

The following is prohibited:
- → coating work pieces which are not grounded,
- → unauthorized conversions and modifications to the device,
- → processing dry or similar coating products, and
- → using defective components, spare parts or accessories other than those described in Chapter 10 of this operating manual.

The forms of misuse listed below may result in health issues and/or material damage:
- → use of powder as a coating product

Wagner devices are not designed for use with food.

2.7 RESIDUAL RISKS

Residual risks are risks which cannot be excluded even in the event of correct use.
If necessary, 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 irritations, 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 working and operating instructions	Operation, maintenance

3 IDENTIFICATION

3.1 EXPLOSION PROTECTION IDENTIFICATION

AirCoat automatic spray gun with the type designation:

GA 4000ACIC

As defined in Directive 94/9/EC (ATEX 95), the device is suitable for use in areas where there is an explosion hazard.

CE Ex 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 "X" SPECIAL NOTICES

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

Maximum product temperature	°C °F	+80 +176
Permissible ambient temperature:	°C °F	+5 ÷ +40 +41 ÷ +104

4 GENERAL SAFETY INSTRUCTIONS

4.1 SAFETY INSTRUCTIONS FOR THE OPERATOR

→ Keep this operating manual at hand near the unit 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 and repaired only by trained persons.

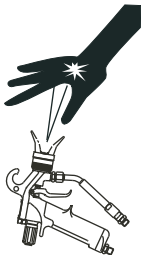
4.1.3 SAFE WORK ENVIRONMENT

→ Make sure that the floor in the area where you are working is electrostatically conductive in accordance with EN 61340-4-1.
→ Ensure that all persons within the working area wear electrostatically conductive shoes.
→ Ensure that during spraying, persons wear electrically conductive gloves. The grounding takes place via the spray gun handle.
→ Paint mist extraction 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 cleaning 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.
– Secure the spray gun against actuation.
– Relieve the pressure from the spray gun and device.
– In the event of functional faults: remedy the fault as described in the "Troubleshooting" chapter.
→ The liquid ejection devices are to be checked for safe working conditions by an expert (e.g. Wagner Service Technician) as often as necessary or at least every 12 months, in accordance with the guidelines for liquid ejection devices (ZH 1/406 and BGR 500 Part 2 Chapter 2.36).
– For shut down devices, the examination can be suspended until the next commissioning.

In the event of skin injuries caused by paint or cleaning agents:
→ Note down the paint or cleaning agent that you have been using.
→ Consult a doctor immediately.
Avoid danger of injury through 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 UNIT

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 dissipative shoes.
→ Wear 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.
→ Ensure that the product hose is suitable for the pressure generated in the device.
→ Make sure that the hoses are laid only in suitable places. In no case, should hoses be laid in the following places:
  – in high-traffic areas,
  – on sharp edges,
  – on moving parts, or
  – on hot surfaces
→ Make sure that the hoses are never used to pull or move the equipment.
→ The electrical resistance of the complete high-pressure hose must be less than 1 Mohm.

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

4.2.4 CLEANING

→ De-energize the device electrically.
→ Disconnect the pneumatic supply line.
→ Relieve the pressure from the device.
→ Ensure that the flash point of the cleaning agent is at least 5 K above the ambient temperature.
→ To clean, use cloths and brushes moistened with solvent. Never use hard objects or spray on cleaning agents with a gun.

An explosive gas/air mixture forms in closed tanks.
→ When cleaning devices with solvents, never spray into a closed tank.
→ Ground the tank.

4.2.5 HANDLING HAZARDOUS LIQUIDS, LACQUERS, AND PAINTS

→ When preparing or working with lacquer and when cleaning the unit, 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 hand protection cream if necessary.
→ Use a mask or a 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:
- Identify the device with a warning label "Warning - hot surface".

Order No.	
9998910	Instruction label
9998911	Protection sticker

Note: Order the two stickers together.

4.3 USE IN AREAS SUBJECT TO EXPLOSION HAZARDS

The device may be used in areas subject to explosion hazards. The following safety regulations must be observed and followed.

4.3.1 SAFETY REGULATIONS

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 unit against steel or rusty iron.
→ Do not drop the device.
→ Use suitable tools only.

Ignition temperature of the pumped product
→ Check that the ignition temperature of the pumped product is higher than the max. allowable 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.

5 DESCRIPTION

5.1 FIELD OF APPLICATION

The device is suitable for processing liquid products such as paints and lacquers in accordance with their classification into explosion classes IIA or IIB, especially coating products using the AirCoat process.

5.2 SCOPE OF DELIVERY

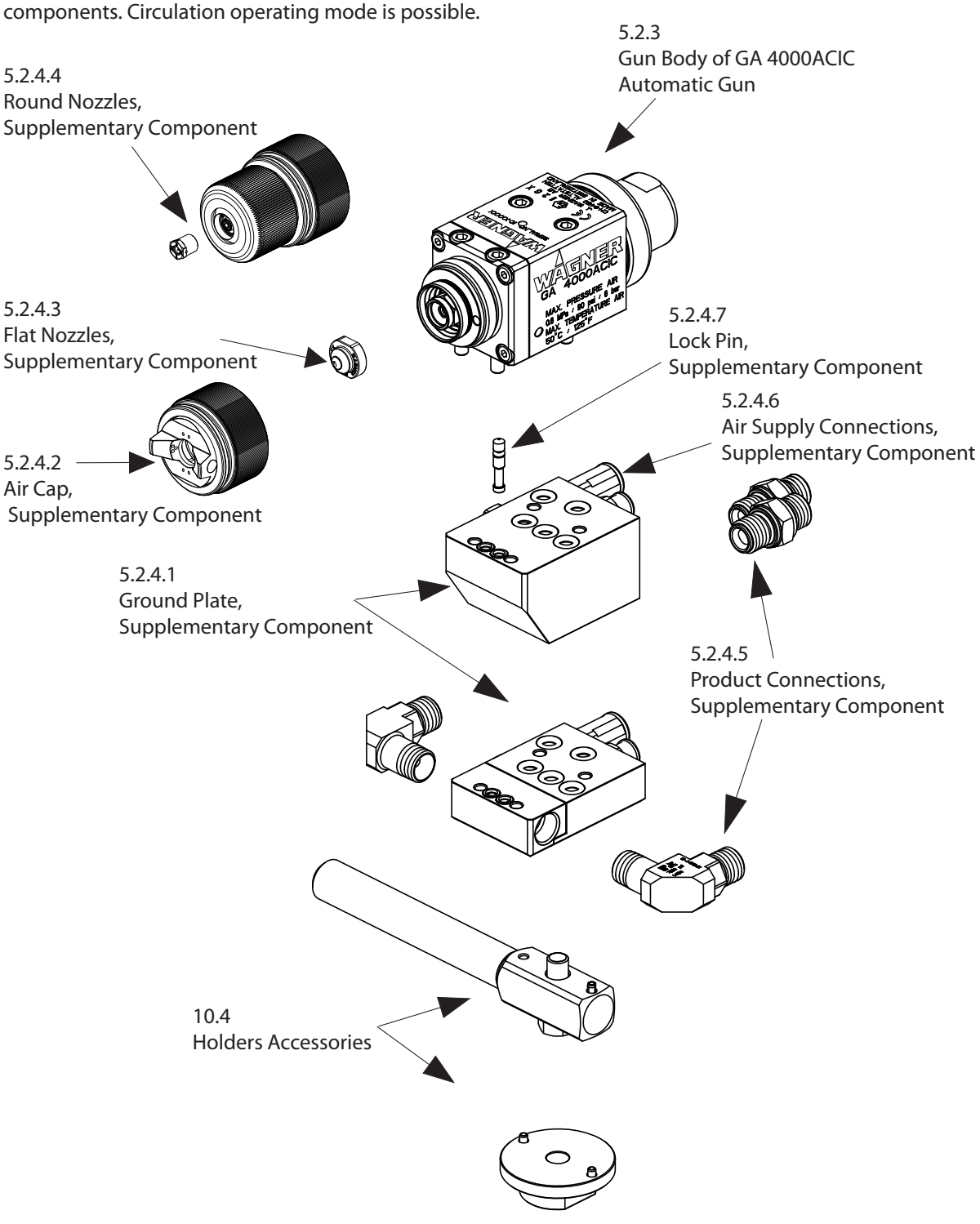
5.2.1 TYPE DESIGNATION

GA	**4000**	**AC**	**XX**
①	②	③	④

① **GA =** Automatic gun
② **4000 =** Gun type
③ **AC =** AirCoat spraying process
④ **IC =** Shaping and atomizing air controlled via valve within gun.
EC = Shaping and atomizing air controlled via valve outside of gun.

5.2.2 OVERVIEW

The Aircoat automatic spray gun is composed of the gun body and supplementary components. Circulation operating mode is possible.



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5.2.3 STANDARD EQUIPMENT

Order No.	Designation
2312132	AirCoat automatic gun GA 4000ACIC
2338603	AirCoat automatic gun GA 4000ACIC (RP)

The standard equipment includes:

Order No.	Designation
2315627	CE Declaration of Conformity
2312955	Operating manual German
Chapter 1	Operating manual in local language

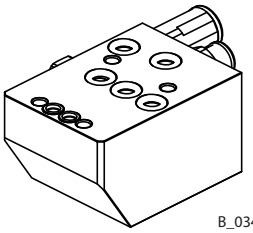
The supplementary components can be used to harmonize and supplement the standard equipment of the automatic gun perfectly to any application depending upon requirements and accessory requests.

The delivery note shows the exact scope of delivery.

5.2.4 SUPPLEMENTARY COMPONENTS

5.2.4.1 BASE PLATES

Order No.	Designation
2308810	Base plate GA 4000ACIC R (including seals and air connections)
2312144	Base plate GA 4000ACIC S (including seals and air connections)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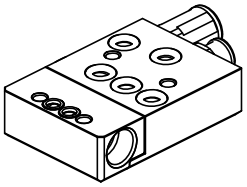
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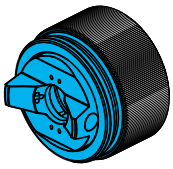
5.2.4.2 AIR CAPS

Order No.	Designation
2308809	Air cap HV plus (blue) for high viscosity products
2308808	Air cap LV plus (red) for low viscosity products
2313493	Air cap LA plus (bronze)
2340299	Air cap LV plus (blank)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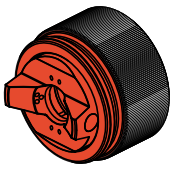
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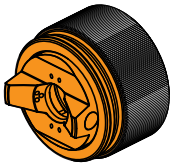
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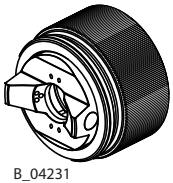
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5.2.4.3 AIRCOAT FLAT JET NOZZLES ACF3000

Order No.	Designation
379XXX	Chapter 10 contains assistance for selecting nozzles


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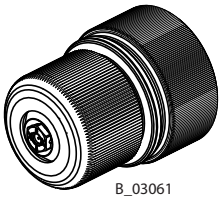
5.2.4.4 AIRCOAT ROUND JET NOZZLES ACR3000

Order No.	Designation
379XXX	Chapter 10 contains assistance for selecting nozzles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5.2.4.5 PRODUCT CONNECTIONS

Order No.	Designation
350550	Straight connecting fitting
2314065	90° connecting fitting


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5.2.4.6 AIR SUPPLY CONNECTIONS

Order No.	Designation
9998090	Straight threaded fitting Ø 6 mm - 1/8"; Ø 0.24 inch - 1/8" * Standard
9998993	Straight threaded fitting Ø 8 mm - 1/8"; Ø 5/16" - 1/8"


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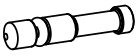
5.2.4.7 LOCK PIN

Order No.	Designation
2310534	Complete lock pin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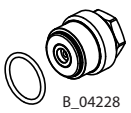
5.2.4.8 PACKING INSERT GA 4000AC

Order No.	Designation
2313516	Standard packing GA 4000 AC
2338601	Packing insert GA 4000 AC (RP)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5.2.4.9 DISTRIBUTOR MOUNTINGS

Order No.	Designation
2314279	Valve mounting GA 4000AC complete (80° angle)
2340315	Valve mounting GA 4000AC complete (50° angle)


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5.3 DATA

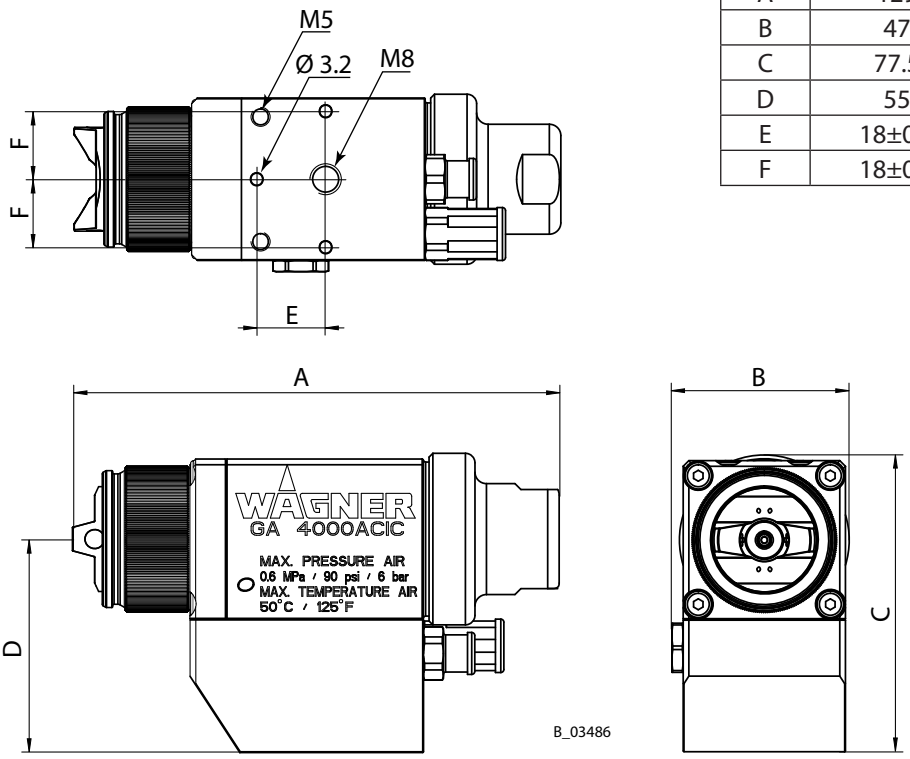
5.3.1 TECHNICAL DATA

Description	Devices	GA 4000ACIC
Maximum air inlet pressure	MPa bar psi	0.6 6 87
Maximum product pressure	MPa bar psi	25 250 3625
Product connection (internal thread)	inch	G1/4"
Air connection (internal thread)	inch	G1/8"
Weight (standard equipment)	g oz	880 31
Maximum product temperature	°C °F	80 176
Maximum air temperature	°C °F	50 122
Maximum ambient temperature	°C °F	+5 ÷ +40 +41 ÷ +104
Sound level at 0.3 MPa; 3 bar; 43.5 psi air pressure and 11 MPa; 110 bar; 1549 psi product pressure ***	dB(A)	82.0

*** A-rated sound pressure level measured at 0.5 m distance, Lpa0.5m in accordance with DIN EN 14462: 2005.

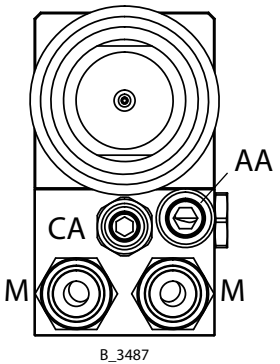
5.3.2 MEASUREMENTS AND CONNECTIONS

	mm	inch
A	129	5.08
B	47	1.85
C	77.5	3.05
D	55	2.17
E	18±0.1	0.71±0.004
F	18±0.1	0.71±0.004

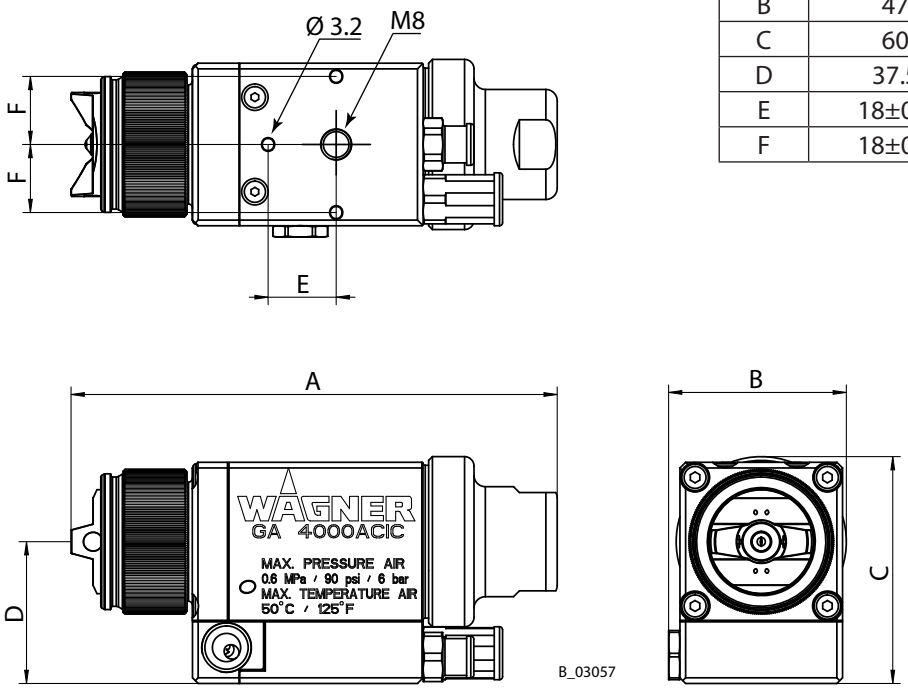


Connection data:
Base plate to GA 4000ACIC R

CA = G1/8" -> 6 mm; 0.24 inch control air
AA = G1/8" -> 8 mm; 0.31 inch atomizing air
M = G1/4" -> NPS1/4" product

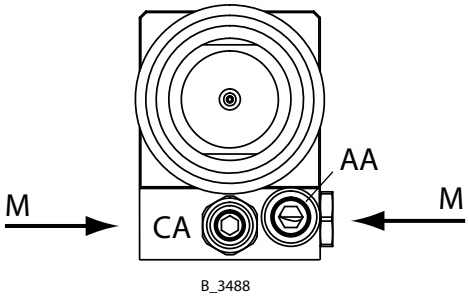


	mm	inch
A	129	5.08
B	47	1.85
C	60	2.36
D	37.5	1.48
E	18±0.1	0.71±0.004
F	18±0.1	0.71±0.004



Connection data:
Base plate to GA 4000ACIC S

CA = G1/8" -> 6 mm; 0.24 inch control air
AA = G1/8" -> 8 mm; 0.31 inch atomizing air
M = G1/4" -> NPS1/4" product

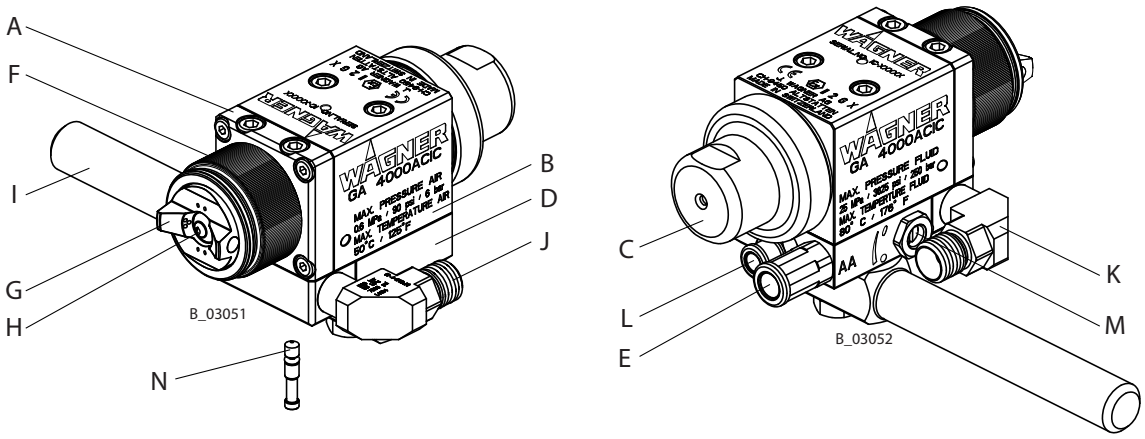


5.3.3 MATERIALS OF PAINT WETTED PARTS

Metals	**Plastics**
Carbide	UHMW-PE
Stainless steel 1.4310	PTFE
Stainless steel 1.4305	FPM
Stainless steel 1.4104	POM
	PA 6.6
	EPDM

5.4 FUNCTIONAL DESCRIPTION

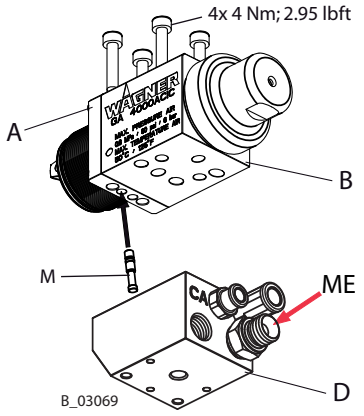
5.4.1 DESIGN OF SPRAY GUN



	Designation
A	Gun head
B	Spray gun body
C	Tension sleeve drive
D	Base plate
E	Atomizing air connection (blue)
F	Union nut
G	Air cap (blue, red or bronze)
H	Nozzle
I	Standard holder
J	Connecting fitting (product)
K	Connecting fitting (product)
L	Connection for control air (red)
M	Shaping air throttle
N	Product channel lock pin

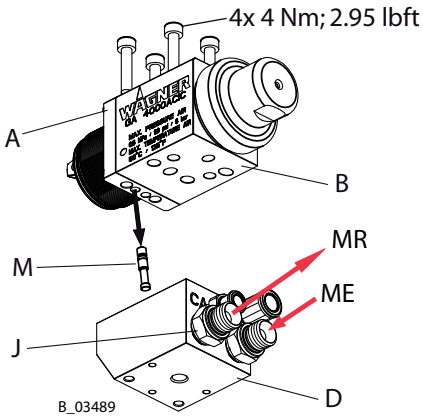
The device consists of a gun head (A), gun body (B), a drive (C) and a base plate (D). The air cap (G), the appropriate nozzle (H) and various parts for sealing and fastening are attached to the gun head (A). The product valve and packing are housed in the gun head (A). The clamping mechanism for the packing is installed in the gun body (B). The gun body also serves as a connecting piece between the drive (C) and the gun head (A). The drive (C) consists a diaphragm and a pressure spring for the product valve. The base plate (D) contains all connections (E, J, K) and a shaping air throttle (M). It can be used to connect the gun to the corresponding reciprocator or gun holder.

5.4.2 MODES "NC" AND "C"



5.4.2.1 MODE "NC" WITHOUT PRODUCT CIRCULATION

In this mode of operation, the left or the right product channel in the gun head (A) is locked by the lock pin (M) and the product entrance (ME) is always on the opposite side.



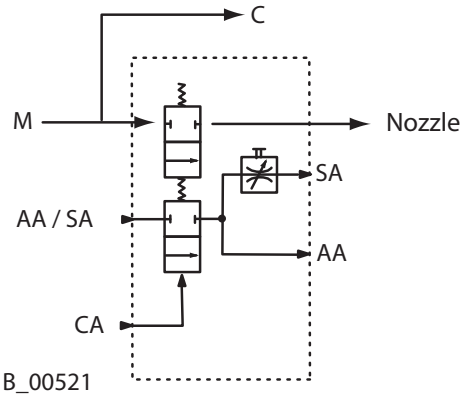
5.4.2.2 MODE "C" WITH PRODUCT CIRCULATION

In this mode of operation, the lock pin (M) must be removed from the left or right product channel in the gun head (A). Screw on additional connection nipple (J). The product entrance (ME) and the product return (MR) are freely selectable in this mode of operation.

5.4.3 FUNCTIONS OF THE SPRAY GUN

Diagram:

SA = Shaping air
AA= Atomizing air
CA = Control air
M = Product
C = Circulation



Open:
The piston in the drive is charged with control air and moves toward the rear. This ensures that the air valve which releases the shaping and atomizing air is opened first. The product valve is then opened with a mechanical delay. In this position, the pressurized coating product is applied to the work piece.

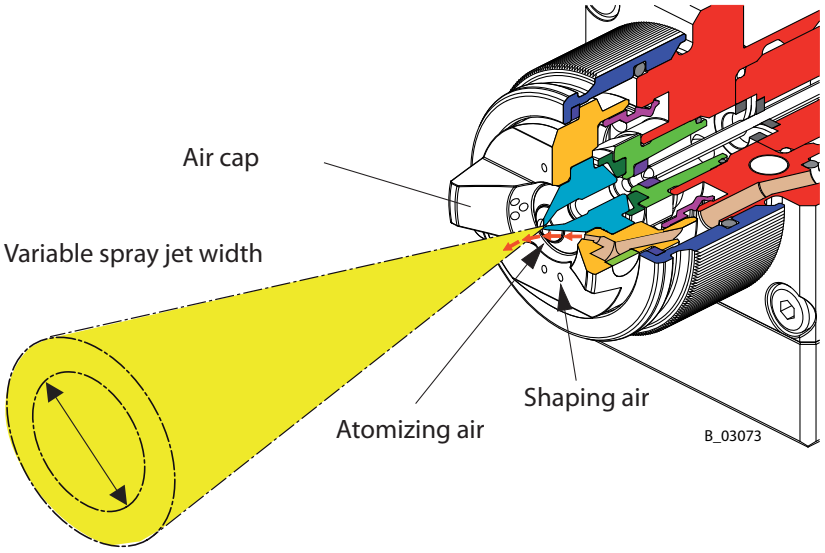
Close:
The piston is relieved, and the product valve closes due to the pressure spring which presses against the product valve tappet. The air valve is then closed, again with a spring force and mechanical delay.

Additional functions:
The shaping air throttle is used to regulate the shaping air volume, while the atomizing air is adjusted via an external pressure regulator. The two air streams do not flow separately until downstream of the air valve, so that the pressure of the shaping air corresponds roughly to that of the atomizing air and so that they influence each other during adjustment.
The product connections and the paint channels in the base plate are arranged so that several guns can run in circulation mode.

5.5 SPRAYING PROCESS

5.5.1 FLAT AIRCOAT JET SPRAY PROCESS

With the AirCoat flat jet process the spray product is normally atomized at a pressure of 3-12 MPa; 30-120 bar; 435-1740 psi. A soft, flat spray is achieved with help of the atomizing air, which has a pressure of 0.05-0.25 MPa; 0.5-2.5 bar; 7.2-36 psi. This eliminates most overlapping problems in the peripheral zones. The shaping air allows the width of the spray jet to be increased or decreased.

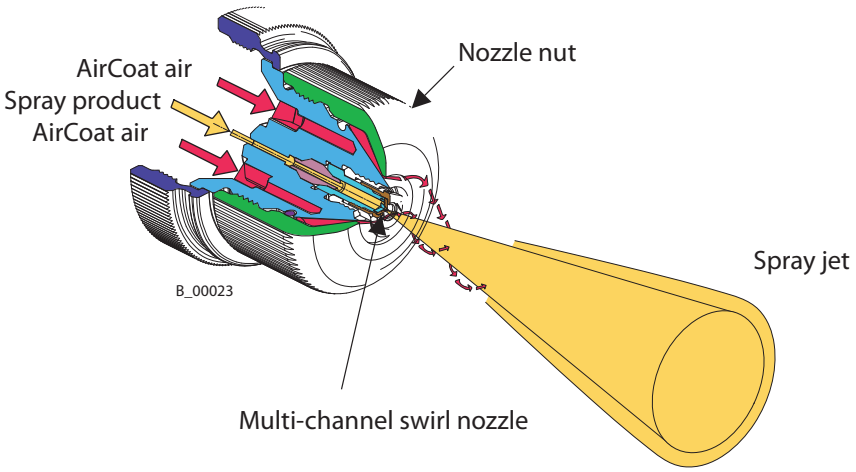


Advantages:
- Large application volume.
- Low fogging tendency.
- Good finish.
- High viscosity products can easily be applied.
- Jet width adjustment.

5.5.2 AIRCOAT ROUND JET SPRAY PROCESS

With the AirCoat round jet process, the spray product is normally atomized at a pressure of 3-12 MPa; 30-120 bar; 435-1740 psi.
The air at 0.05-0.25 MPa; 0.5-2.5 bar; 7.2-36 psi normally produces a soft jet. The spray jet diameter can be adjusted by turning the nozzle nut.

The multi-channel swirl nozzle produces fine paint particles, while at the same time reducing their forwards speed and swirling them to produce a rotating motion. The result is a soft, extremely well atomized spraying cloud.



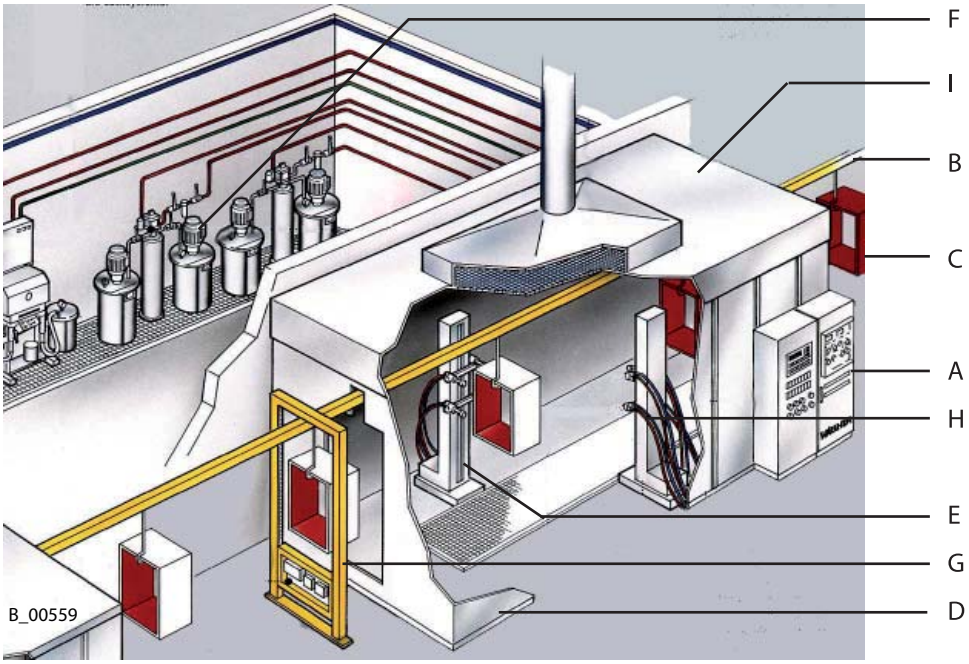
Advantages:

- Large application volume.
- Low fogging tendency.
- Good finish.
- High viscosity products can easily be applied.

6 ASSEMBLY AND COMMISSIONING

6.1 INSTALLATION AND CONNECTION

6.1.1 TYPICAL AUTOMATIC SPRAYING SYSTEM



	Designation
A	Control cabinet
B	Conveyor
C	Work piece
D	Spray booth
E	Reciprocator
F	Paint supply
G	Part recognition
H	Spray guns
I	Supply air system and exhaust air system

The spray gun must be used a part of an spraying system. The spraying system shown in the figure is only one example of an AirCoat spraying system. Contact your Wagner distributor for assistance in putting together a system to meet your needs.
The operating instructions and the safety regulations for all additional system components used must be read before commissioning.

6.1.2 VENTILATION OF THE SPRAY BOOTH

⚠ WARNING

Toxic and/or flammable vapor mixtures!
Risk of poisoning and burns.

→ Operate the device in a spray booth approved for the products.
-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.

6.1.3 AIR SUPPLY

The use of an air filter with the air regulator ensures that only dry, clean atomizing air enters the spray gun. Dirt and moisture in the atomizing air worsens the spraying quality and spraying pattern.

6.1.4 PRODUCT SUPPLY

NOTICE

Impurities in the spraying system!
Spray gun blockage, products harden in the spraying system.

→ Flush the spray gun and paint supply with a suitable cleaning agent.

⚠ DANGER

Bursting hose, bursting threaded joints!
Danger to life from injection of product.

→ 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:
- Manufacturer
- Permissible operating pressure
- Date of manufacture.

6.1.5 GROUNDING THE SYSTEM

⚠ WARNING

Discharge of electrostatically charged components in atmospheres containing solvents!
Risk of explosion from electrostatic sparks or flames.

→ Ground all device components.
→ Ground the workpieces to be coated.

⚠ WARNING

Heavy paint mist if grounding is insufficient!
Risk of poisoning.
Insufficient paint application quality.

→ Ground all device components.
→ Ground the work pieces to be coated.

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

6.2 LACQUER PREPARATIONS

The viscosity of the lacquer is of great importance. The best results are obtained with lacquers of between 80 and 150 mPas.

Processing of up to 260 mPas is generally possible without problems if high coating thicknesses are required. It is important for the optimum coating quality that the paint temperature is kept constant during coating.

Should you experience application problems, please contact the lacquer manufacturer.

6.2.1 VISCOSITY CONVERSION TABLE

milli Pascal x Sec mPas	Centipoise	Poise	DIN Cup 4 mm 0.16 inch	Ford Cup 4	Zahn 2
10	10	0.1		5	16
15	15	0.15		8	17
20	20	0.2		10	18
25	25	0.25	14	12	19
30	30	0.3	15	14	20
40	40	0.4	17	18	22
50	50	0.5	19	22	24
60	60	0.6	21	26	27
70	70	0.7	23	28	30
80	80	0.8	25	31	34
90	90	0.9	28	32	37
100	100	1	30	34	41
120	120	1.2	33	41	49
140	140	1.4	37	45	58
160	160	1.6	43	50	66
180	180	1.8	46	54	74
200	200	2	49	58	82
220	220	2.2	52	62	
240	240	2.4	56	65	
260	260	2.6	62	68	
280	280	2.8	65	70	
300	300	3	70	74	
320	320	3.2			
340	340	3.4			
360	360	3.6	80		
380	380	3.8			
400	400	4	90		

6.3 COMMISSIONING

6.3.1 GENERAL RULES FOR HANDLING THE SPRAY GUN

→ Observe safety instructions in Chapter 4.

The following rules must be observed before all work on the device, in the event of work interruptions and functional faults:

⚠ WARNING

Unintentional putting into operation!
Risk of injury.

Before any work on the device, in the event of work interruptions and malfunctions:
→ Switch off the energy/compressed air supply.
→ Relieve the pressure from the spray gun and device.
→ Secure the spray gun against actuation.
→ In the event of functional faults: remedy the fault as described in the "Troubleshooting" chapter.

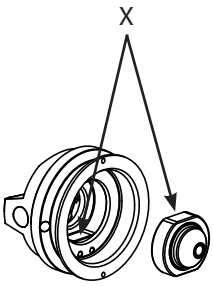
NOTICE

Cleaning agent in air duct!
Functional faults.

→ When cleaning, always operate the spray gun at at least 0.05 MPa; 0.5 bar; 7.25 psi shaping air. No cleaning agent should be allowed to enter the air ducts.

6.3.2 PREPARATIONS FOR STARTING UP

1. Mount the spray gun on the reciprocator.
2. Connect product hoses (supply and return) to spray gun and product supply system.
3. 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 air union nut and tighten by hand.
4. Connect control air hose and atomizing air hose to spray gun and to oil-free, dry air supply.
5. Visually check the permissible pressures for all the system components.
6. Make sure that the device and all other conductive parts within the work area are grounded.
7. Set operating pressure to 100 MPa; 10 bar; 1450 psi and use a suitable medium to check no connections are leaking.
8. Relieve spray gun and device pressure.



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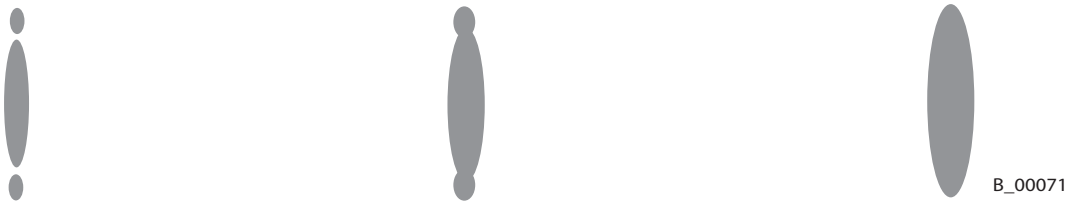
7 OPERATION

7.1 START-UP FOR AIRCOAT SPRAYING

1. Set operating pressure for product supply to approx. 8 MPa; 80 bar; 1160 psi and start up.
2. Spray (release control air) and check the atomization.
3. Set the spray pressure on the product supply such that optimum product atomization is attained.
4. Open air pressure regulator for atomizing air and set.
5. Adjust the amount of air at the shaping air throttle until the optimum spraying pattern is reached. The relation between the spray pattern and shaping is shown in the illustration below.

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

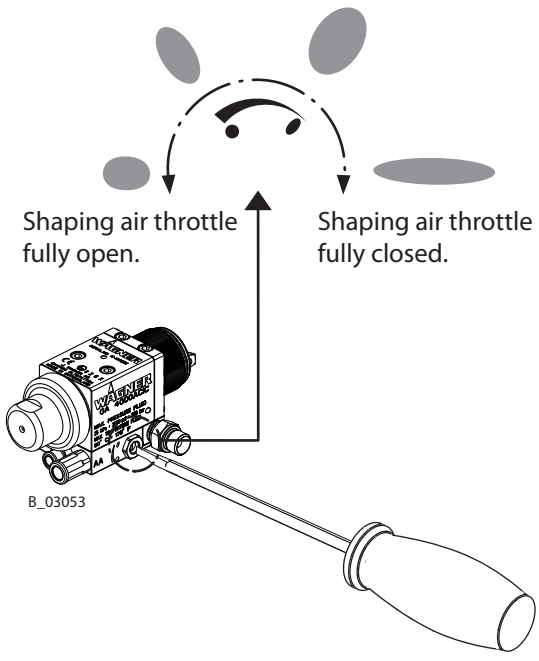
Spray pattern shapes



No shaping air/atomizing air | Too little shaping air/atomizing air | Correct amount of shaping air/atomizing air

7.2 SPRAY PATTERN SHAPES

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



Note:
The amount of product can be changed by:

- changing the product pressure or
- using a different flat jet nozzle. See accessories.

7.3 CHANGING AIRCOAT NOZZLE

NOTICE

Defective AirCoat nozzle!
Insufficient paint application quality.

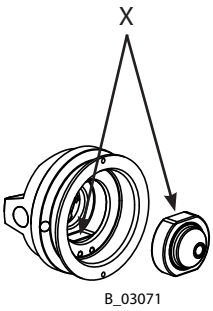
→ Do not use sharp-edged objects to treat carbide on the AirCoat nozzle.

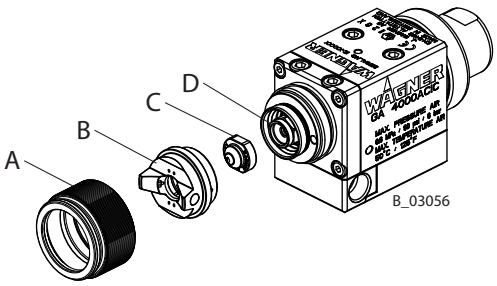
NOTICE

Defective nozzle seal!
Product 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 the pressure of gun and device.
2. Secure gun (remove the control air hose).
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. Screw on union nut (A) and tighten by hand.

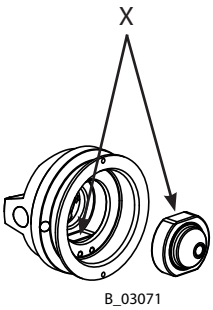




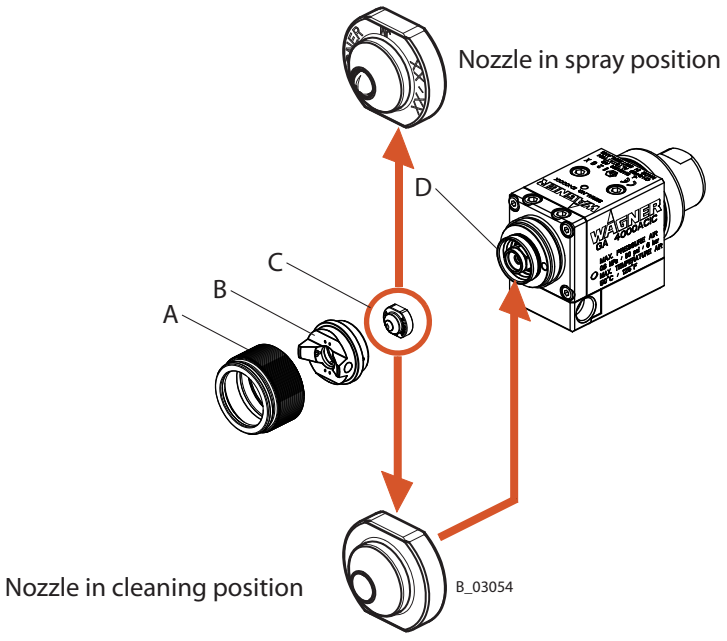
7.4 CLEANING AIRCOAT NOZZLE

For disassembly and assembly, see AirCoat nozzles section 7.3.
The AirCoat nozzle (C) can be placed into a cleaning solution which has been recommended by the paint manufacturer.

7.5 ELIMINATING NOZZLE CLOGGING



1. Relieve the pressure of gun and device.
2. Secure gun (remove the control air hose).
3. Unscrew union nut (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. Fit air cap (B) on nozzle (C).
   Note the flattened parts (X) on the nozzle and in the air cap.
7. Fit union nut (A) over air cap (B) on spray gun and tighten by hand.
8. Switch the product pressure back on.
9. Spray (connect control air hose).
10. When the blockage has been flushed out, switch off the spray gun.
11. Relieve the pressure of gun and device.
12. Secure gun (remove the control air hose).
13. Unscrew union nut (A).
14. Remove air cap (B) and push AirCoat nozzle (C) out by hand.
    Clean nozzle and nozzle seal and refit nozzle in spraying position on nozzle seal (D).
15. Fit air cap (B) on nozzle (C).
    Note the flattened parts (X) on the nozzle and in the air cap.
16. Fit union nut (A) over air cap (B) on spray gun and tighten by hand.
17. Connect control air.
    Switch the product pressure and the air pressure back on.

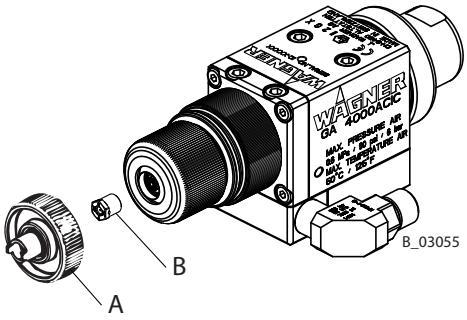


7.6 REPLACING NOZZLE INSERT OF ROUND JET NOZZLE

1. Relieve the pressure of gun and device.
2. Secure gun (remove the control air hose).
3. Remove nozzle insert (B) with nozzle spanner (A).
4. Fit new nozzle insert in reverse order (see chapter 9.4).

Note:
Flush out clogged round jet nozzle:

1. Use nozzle spanner (A) to loosen nozzle insert (B) by a half turn.
2. Remove nozzle spanner and switch on the gun briefly.
3. After flushing the nozzle, re-tighten the nozzle insert.



8 TROUBLESHOOTING AND RECTIFICATION

Functional fault	Cause	Remedy
Insufficient product output.	Nozzle too small.	Select larger nozzle (see chapter 10.1).
	Product pressure too low.	Increase product pressure.
	Filter upstream of gun or high pressure filter clogged at pump.	Clean or replace filter.
	Nozzle is clogged.	Nozzle cleaning (see chapter 7.5).
	The valve rod path is too short.	Increase the control air pressure. Replace the valve rod.
Poor spray pattern.	Wrongly set atomizing air.	Reset atomizing air (see chapter 7.1).
	The nozzle is too large.	Select a smaller nozzle (see chapter 10.1).
	Product pressure too low.	Increase the product pressure at pump.
	The product viscosity is too high.	Thin product in accordance with the manufacturer's instructions.
	The nozzle is partially clogged.	Nozzle cleaning (see chapter 7.5).
	Incorrectly set shaping air.	Reset shaping air.
	The drilled holes in the air cap are damaged or clogged.	Clean or replace the air cap.
	Incorrectly selected air cap.	Use suitable air cap (high viscosity/low viscosity).
Air valve leaking / air leaks.	Air valve seals are leaky.	Replace air valve seal (see chapter 9.3).
Packing leaking.	Packing worn.	Insert a new packing.
Spray gun will not shut-off correctly / product valve leaking.	The valve seat or the valve ball is damaged.	Replace the parts.

9 CLEANING AND MAINTENANCE

→ Observe safety instructions in Chapter 4.

1. The spray gun and the unit must be cleaned and flushed daily. The cleaning agent used for cleaning must be suitable for the coating product.
2. Check hoses, pipes, and couplings every day and replace if necessary.

→ In accordance with the guideline for liquid ejection devices (ZH 1/406 and BGR 500 Part 2 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.

NOTICE

Impurities in the spraying system!
Spray gun blockage, products harden in the spraying system.

→ Flush the spray gun and paint supply with a suitable cleaning agent.

NOTICE

Flushing agent in the air duct!
Functional faults caused by swollen seals.

→ Never immerse the spray gun in cleaning agent.

⚠ WARNING

Incorrect maintenance/repair!
Risk of injury and equipment damage.

→ Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.
→ Before all work on the device and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and device.
- Secure the spray gun against actuation.
→ Observe the operating manual and service instructions at all times when carrying out work.

9.1 DECOMMISSIONING AND CLEANING

NOTICE

Cleaning agent in air duct!
Functional faults.

→ When cleaning, always operate the spray gun at at least 0.05 MPa; 0.5 bar; 7.25 psi shaping air. No cleaning agent should be allowed to enter the air ducts.

⚠ DANGER

Exploding gas / air mixture!
Danger to life from flying parts and burns.

→ Never spray into a closed tank.
→ Ground the tank.

⚠ WARNING

Explosive atmosphere!
Explosive gases are produced when aluminum comes into contact with halogenized hydrocarbons.

→ To clean aluminum, do not use liquids containing halogenized hydrocarbons.

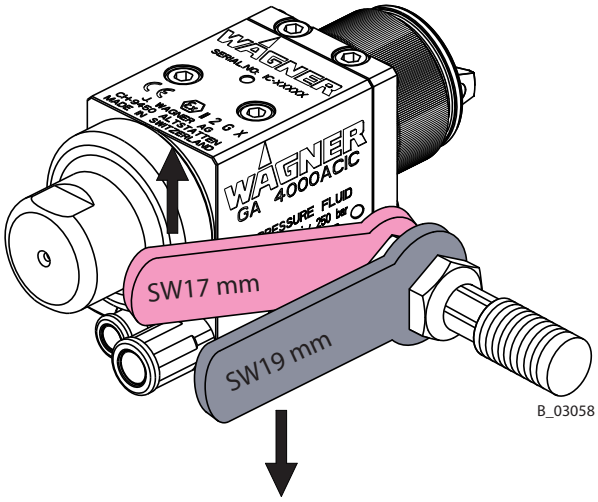
1. Relieve the pressure of gun and device.
2. Secure gun (remove the control air hose).
3. Connect the cleaning agent supply.
4. Dismount AirCoat nozzle and clean separately (see chapter 7.3).
5. Pressurize the cleaning agent supply to a maximum pressure of 4 MPa; 40 bar; 580 psi and thoroughly flush the spray gun.
6. Relieve the pressure of gun and device.
7. Secure gun (remove the control air hose).
8. Clean outside of spray gun with a cleaning agent recommended by the lacquer manufacturer and dry with a cloth or blow gun.

9.2 REPLACING PRODUCT HOSE

The service life of the fluid hoses is reduced due to environmental influences even when handled correctly.

→ Check hoses, pipes, and couplings every day and replace if necessary.
→ As a precaution, fluid hoses should be replaced after a period specified by the operator.

1. Decommissioning work and cleaning.
2. Relieve the pressure of gun and device.
3. Secure gun (remove the control air hose).
4. Place open-ended wrench size 17 mm; 0.67 inch on flats of product connection and counterhold.
5. Turn nut to the right with open-ended wrench size 19 mm; 0.75 inch and unscrew product hose.
6. **Assembly:**
   Fit product hose by hand and tighten with 2 open-ended wrenches.



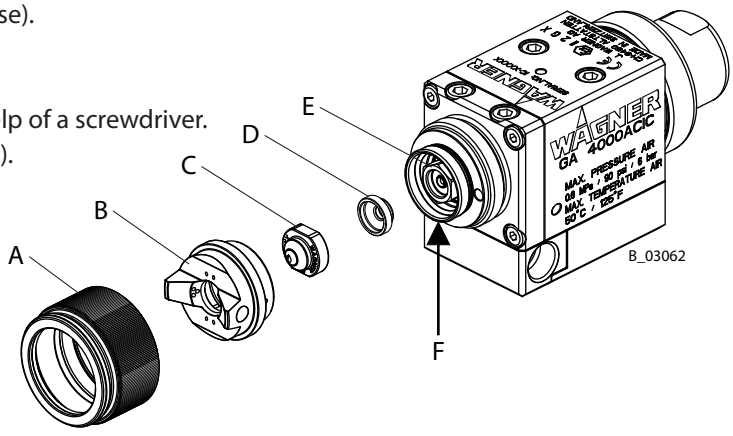
9.3 REPLACING THE NOZZLE SEAL

NOTICE

Shaping air and atomizer air not separate!
Poor spray pattern.
Spray jet cannot be adjusted.

→ Treat the distributor seal (F) with care.

1. Decommissioning work and cleaning.
2. Relieve the pressure of gun and device.
3. Secure gun (remove the control air hose).
4. Unscrew union nut (A).
5. Remove air cap (B) and nozzle (C).
6. Release the nozzle seal (D) with the help of a screwdriver.
7. Fit new nozzle seal to valve housing (E).
8. Assemble in reverse order.



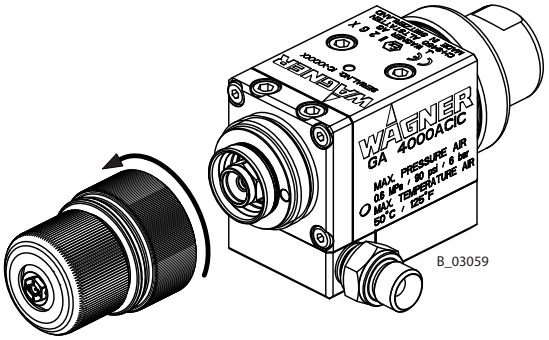
9.4 REPLACING SEALING FITTING OF ROUND JET NOZZLE

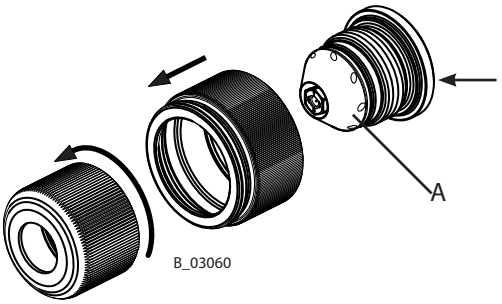
NOTICE

Defective nozzle body!
Poor spray pattern.

→ Handle the nozzle body (A) with care.

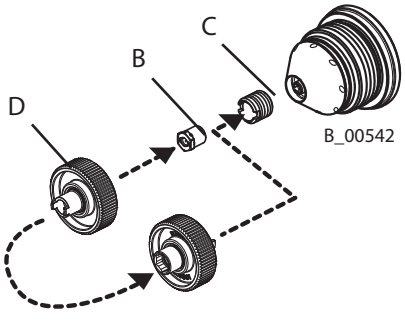
Unscrew the nozzle by hand.



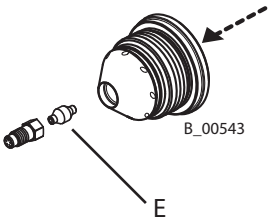


Counter hold with a size 13 mm; 0.51 inch socket wrench.

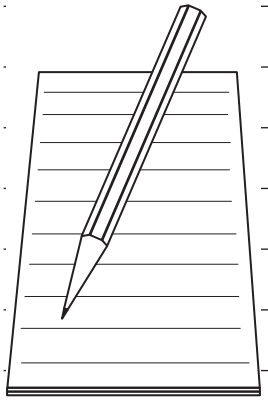
Nozzle wrench (D)
order no. 128901



Eject with 1.5 mm; 0.06 inch diameter pin.



Note:
The sealing fitting (E) can be pulled out of the nozzle body using a small eye wood bolt.

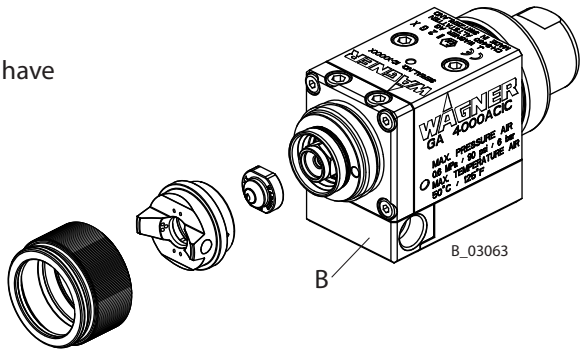


9.5 REPLACING PARTS IN GUN BODY

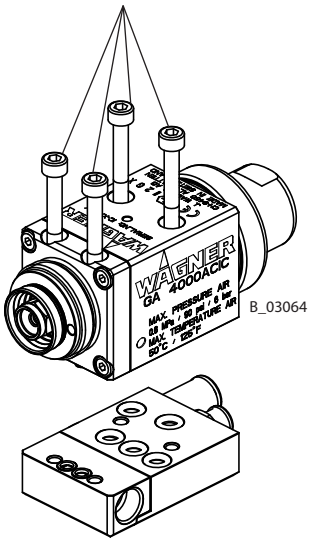
9.5.1 DISASSEMBLY OF GA 4000ACIC

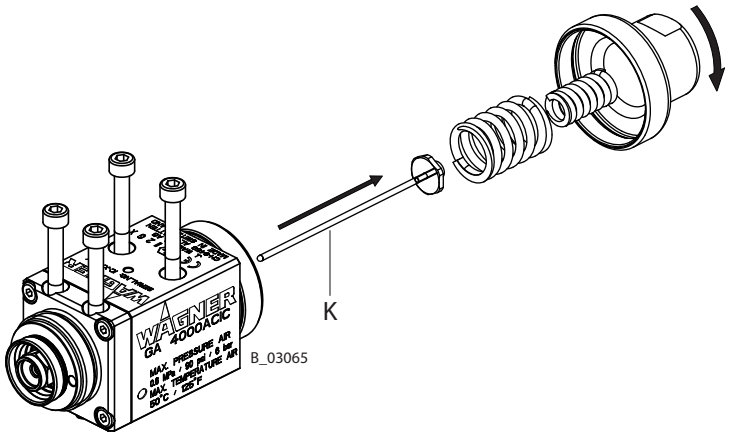
NOTICE
Defective plunger shaft! Packing leaking. Greater wear on the packing. → Handle the plunger shaft (K) with care. The plunger shaft has the function of a sliding surface.

Note:
The complete base plate (B) does not have to be removed.

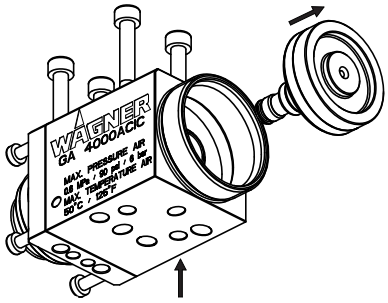


M5 wrench size 3 mm; 0.12 inch



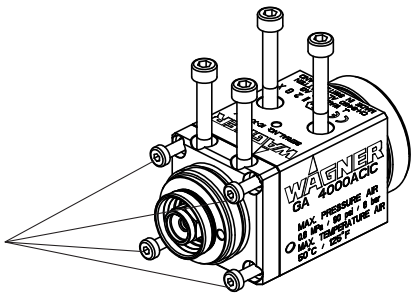


Note:
Circulation mode without lock pin



Blow gun

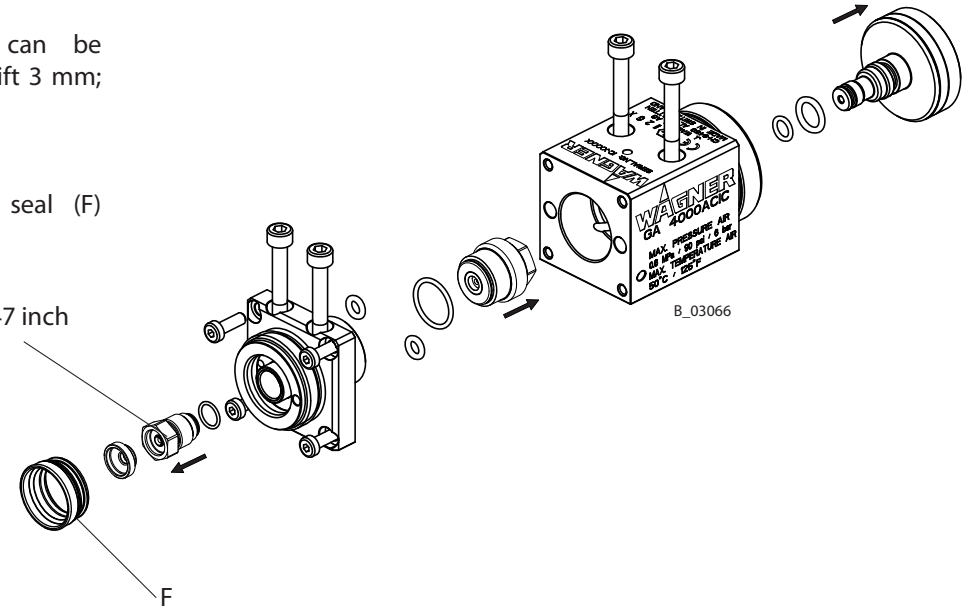
M5 wrench size 3; 0.12 inch



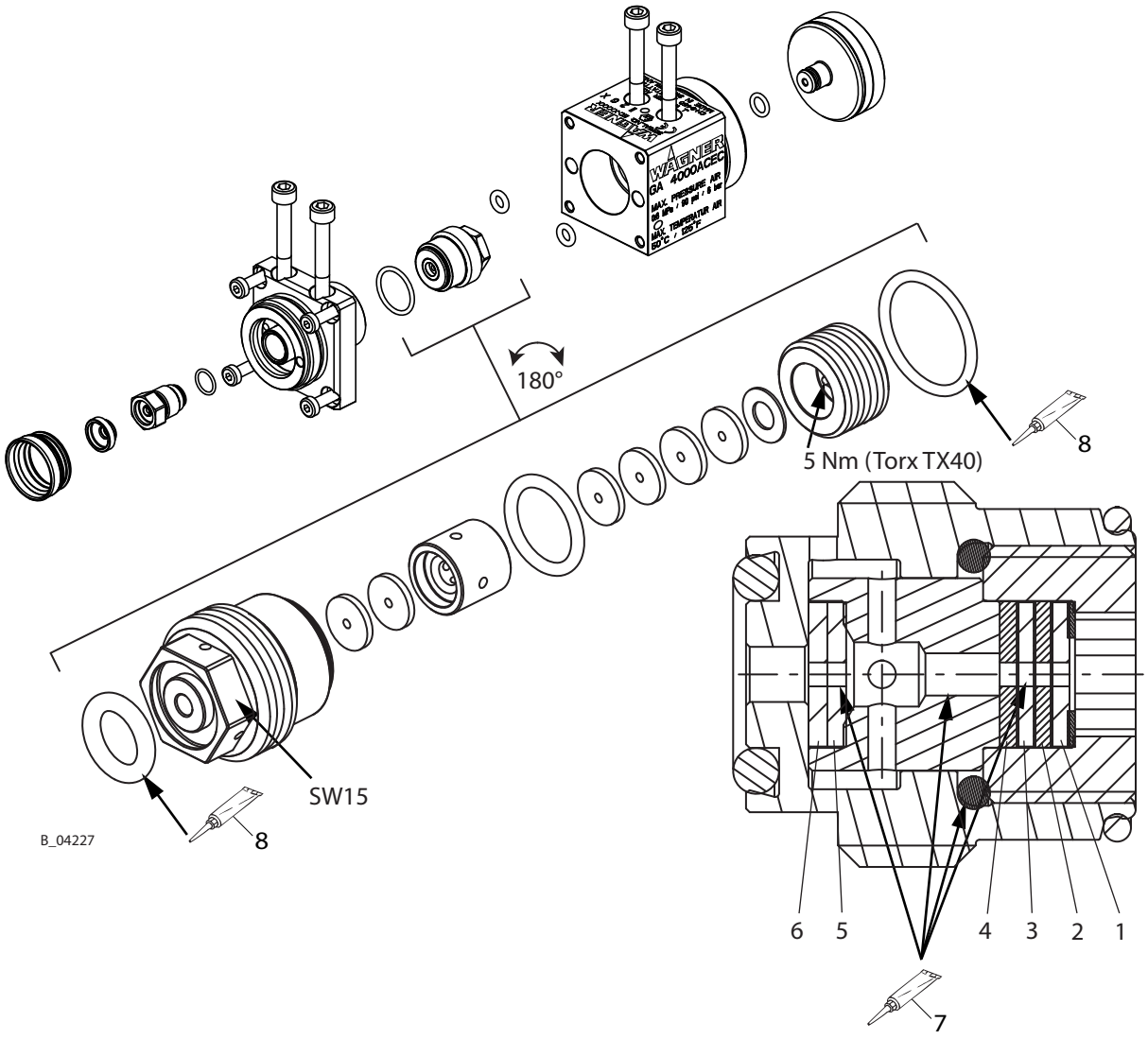
Note:
Stuck components can be pushed out with a drift 3 mm; 0.12 inch in diameter.

Note:
Pull out distributor seal (F) using pliers.

M5 wrench size 12; 0.47 inch



9.5.2 PACKING INSERT GA 4000AC (RP)



Order of seals:
1) Sealing set GA4000 packing RP: order number 2339140

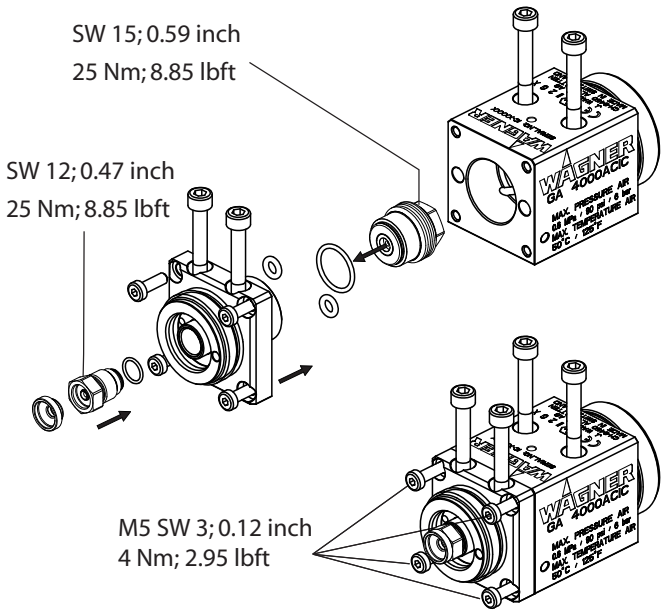
Pos	Material	Order No.	Order No. (set of 12 packings)
1	PTFE + GF	-	2339141
2	PE	-	2339142
3	PTFE + GF	-	2339141
4	PE	-	2339142
5	PTFE + GF	-	2339141
6	PTFE + GF	-	2339141
7	Mobilux EP 2 grease	9998808	-
8	Vaseline white	9992698	-

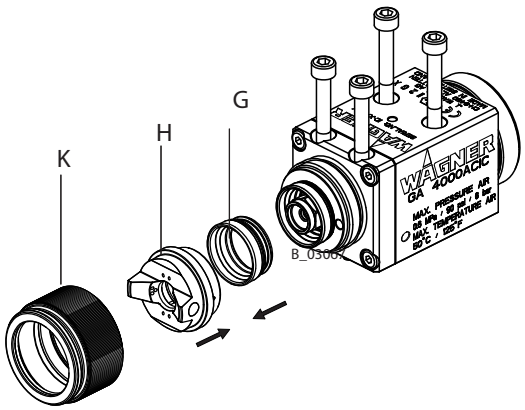
2) Sealing set GA4000 packing RP special: order number 2339810

Pos	Material	Order No.	Order No. (set of 12 packings)
1	PTFE	-	2339143
2	PE	-	2339142
3	PTFE	-	2339143
4	PE	-	2339142
5	PTFE + GF	-	2339141
6	PTFE + GF	-	2339141
7	Mobilux EP 2 grease	9998808	-
8	Vaseline white	9992698	-

9.5.3 ASSEMBLY OF GA 4000ACIC

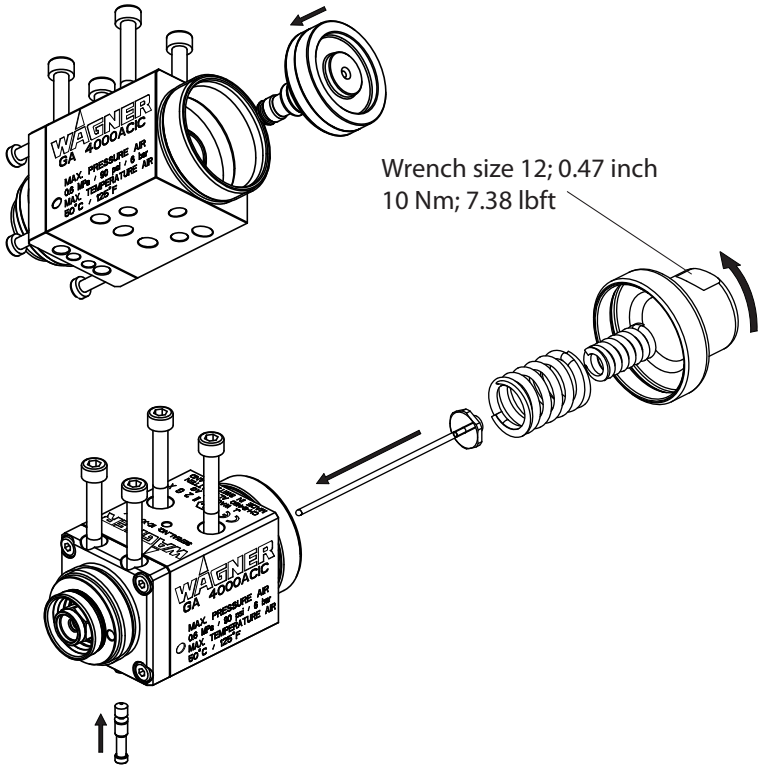
General note:
Lightly grease o-rings and sliding surfaces with Vaseline white PHV II.



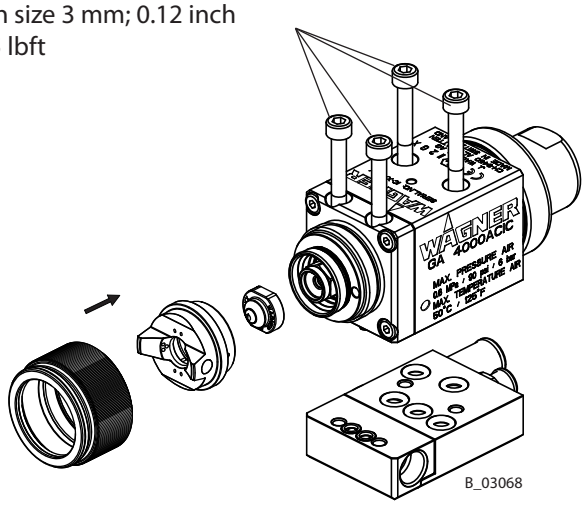


Note:
Put distributor seal (G) on air cap (H) and place seal and air cap in gun housing. Screw union nut (K) in until the distributor seal ring catches in the groove (audible click).

Dismount union nut and air cap again.



M5 wrench size 3 mm; 0.12 inch
4 Nm; 2.95 lbft



10 ACCESSORIES

10.1 AIRCOAT NOZZLES ACF3000


B_00021

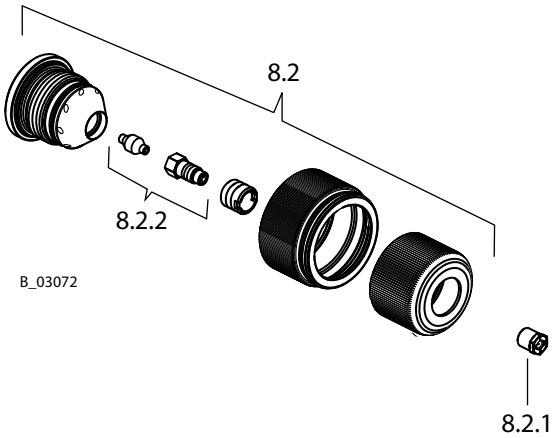
Order No.	Marking	Drilled hole ∅ inch; mm	Spray angle	Recommended gun filter	Recommended edge filter	Application
379107	07/10	0.007-0.18	10°	Red 200 meshes	200 meshes	Natural lacquer
379207	07/20	0.007-0.18	20°			
379209	09/20	0.009-0.23	20°			Clear lacquer Oils
379309	09/30	0.009-0.23	30°			
379409	09/40	0.009-0.23	40°			
379509	09/50	0.009-0.23	50°			
379609	09/60	0.009-0.23	60°			
379111	11/10	0.011-0.28	10°			Synthetic resin lacquer PVC lacquer
379211	11/20	0.011-0.28	20°			
379311	11/30	0.011-0.28	30°			
379411	11/40	0.011-0.28	40°			
379511	11/50	0.011-0.28	50°			
379611	11/60	0.011-0.28	60°			
379113	13/10	0.013-0.33	10°	Yellow 100 meshes	100 meshes	Lacquer Base coat Primer Filler
379213	13/20	0.013-0.33	20°			
379313	13/30	0.013-0.33	30°			
379413	13/40	0.013-0.33	40°			
379513	13/50	0.013-0.33	50°			
379613	13/60	0.013-0.33	60°			
379813	13/80	0.013-0.33	80°			
379115	15/10	0.015-0.38	10°			Filler Rust proofing paints
379215	15/20	0.015-0.38	20°			
379315	15/30	0.015-0.38	30°			
379415	15/40	0.015-0.38	40°			
379515	15/50	0.015-0.38	50°			
379615	15/60	0.015-0.38	60°			
379815	15/80	0.015-0.38	80°			
379217	17/20	0.017-0.43	20°		60 meshes	Rust proofing paints Latex paints
379317	17/30	0.017-0.43	30°			
379417	17/40	0.017-0.43	40°			
379517	17/50	0.017-0.43	50°			
379617	17/60	0.017-0.43	60°			
379817	17/80	0.017-0.43	80°			

B_00021

Order No.	Marking	Drilled hole Ø inch; mm	Spray angle	Recommended gun filter	Recommended edge filter	Application
379219	19/20	0.019-0.48	20°	White 50 meshes	Yellow 100 meshes	Rust proofing paints Latex paints
379319	19/30	0.019-0.48	30°			
379419	19/40	0.019-0.48	40°			
379519	19/50	0.019-0.48	50°			
379619	19/60	0.019-0.48	60°			
379819	19/80	0.019-0.48	80°			
379221	21/20	0.021-0.53	20°		60 meshes	Mica paints Zinc rich paints Rust proofing paints Glue paints
379421	21/40	0.021-0.53	40°			
379521	21/50	0.021-0.53	50°			
379621	21/60	0.021-0.53	60°			
379821	21/80	0.021-0.53	80°			
379423	23/40	0.023-0.58	40°			
379623	23/60	0.023-0.58	60°			
379823	23/80	0.023-0.58	80°			
379425	25/40	0.025-0.64	40°			
379625	25/60	0.025-0.64	60°			
379825	25/80	0.025-0.64	80°			
379427	27/40	0.027-0.69	40°			
379627	27/60	0.027-0.69	60°			
379827	27/80	0.027-0.69	80°			
379429	29/40	0.029-0.75	40°			
379629	29/60	0.029-0.75	60°			
379829	29/80	0.029-0.75	80°			
379431	31/40	0.031-0.79	40°			
379531	31/60	0.031-0.79	60°			
379631	31/80	0.031-0.79	80°			
379435	35/40	0.035-0.90	40°			
379635	35/60	0.035-0.90	60°			
379835	35/80	0.035-0.90	80°			

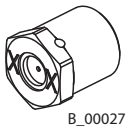
10.2 ROUND JET NOZZLE CAP

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



10.2.1 NOZZLE INSERTS RXX

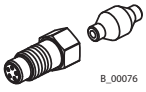
Order No.	Designation	Marking	Jet diameter **
132720	Nozzle insert R11	11	Approx. 250; 9.84
132721	Nozzle insert R12	12	Approx. 250; 9.84
132722	Nozzle insert R13	13	Approx. 250; 9.84
132723	Nozzle insert R14	14	Approx. 250; 9.84
132724	Nozzle insert R15	15	Approx. 250; 9.84
132725	Nozzle insert R16	16	Approx. 250; 9.84
132726	Nozzle insert R17	17	Approx. 250; 9.84
132727	Nozzle insert R18	18	Approx. 250; 9.84
132728	Nozzle insert R19	19	Approx. 250; 9.84
132729	Nozzle insert R20	20	Approx. 250; 9.84
132730	Nozzle insert R21	21	Approx. 250; 9.84
132731	Nozzle insert R22	22	Approx. 250; 9.84



** Jet width in mm; inches at a distance of approx. 30 cm; 11.8 inches from the object and at a pressure of 10 MPa; 100 bar; 1450 psi, synthetic resin paint, 20 DIN4 seconds.

10.2.2 COMPLETE NOZZLE SCREW JOINT

Order No.	Designation
132922	Nozzle screw joint, complete

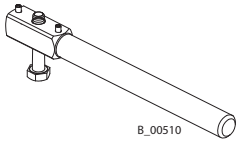


10.3 HOSES

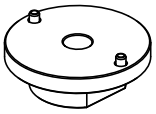
Order No.	Designation
9984405	High pressure hose M16x1.5, 1 m; 3.28 ft, DN 4 mm; ID 0.16 inch, 27 MPa; 270 bar; 3916 psi
9984507	High pressure hose M16x1.5, 15 m; 98.4 ft, DN 6 mm; ID 0.24 inch, 27 MPa; 270 bar; 3916 psi
9984510	High pressure hose M16x1.5, 7.5 m; 24.6 ft, DN 4 mm; ID 0.16 inch, 27 MPa; 270 bar; 3916 psi
9984573	High pressure hose NPSM1/4", 7.5 m; 24.6 ft, DN 4 mm; ID 0.16 inch, 27 MPa; 270 bar; 3916 psi
9984574	High pressure hose NPSM1/4"; 15 m; 98.4 ft, DN 6 mm; ID 0.24 inch, 27 MPa; 270 bar; 3916 psi
9982035	Air hose, red, outer diameter 6 mm; 0.24 inch, inner diameter 4 mm; 0.16 inch, polyamide, per meter
9982061	Air hose, blue, outer diameter 6 mm; 0.24 inch, inner diameter 4 mm; 0.16 inch, polyamide, per meter
9982033	Air hose, green, outer diameter 6 mm; 0.24 inch, inner diameter 4 mm; 0.16 inch, polyamide, per meter
9982062	Air hose, blue, outer diameter 8 mm; 0.32 inch, inner diameter 5.5 mm; 0.22 inch, polyamide, per meter

10.4 MISCELLANEOUS

Order No.	Designation
9997001	Nozzle cleaning brush
8612001	Nozzle cleaning needle set, 12 pieces
123446	Double nipple M16x1.5 (for extension for product hose)
367560	Double nipple NPS 1/4" (for extension for product hose)
380941	Standard gun holder 180 mm; diameter 16 mm, 7.1 inch; diameter 0.63 inches



Order No.	Designation
2314079	Cefla adapter plate
380942	Rotary gun holder (standard)
380945	Rotary holder 40/40/5
380943	Complete swivel drive
380944	Cross clamp for swivel drive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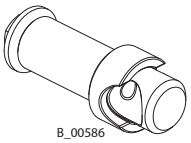
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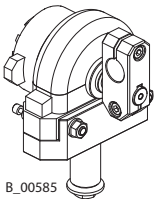
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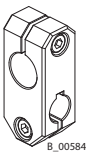
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11 SPARE PARTS

11.1 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 part
Note: No liability is assumed for wearing parts.

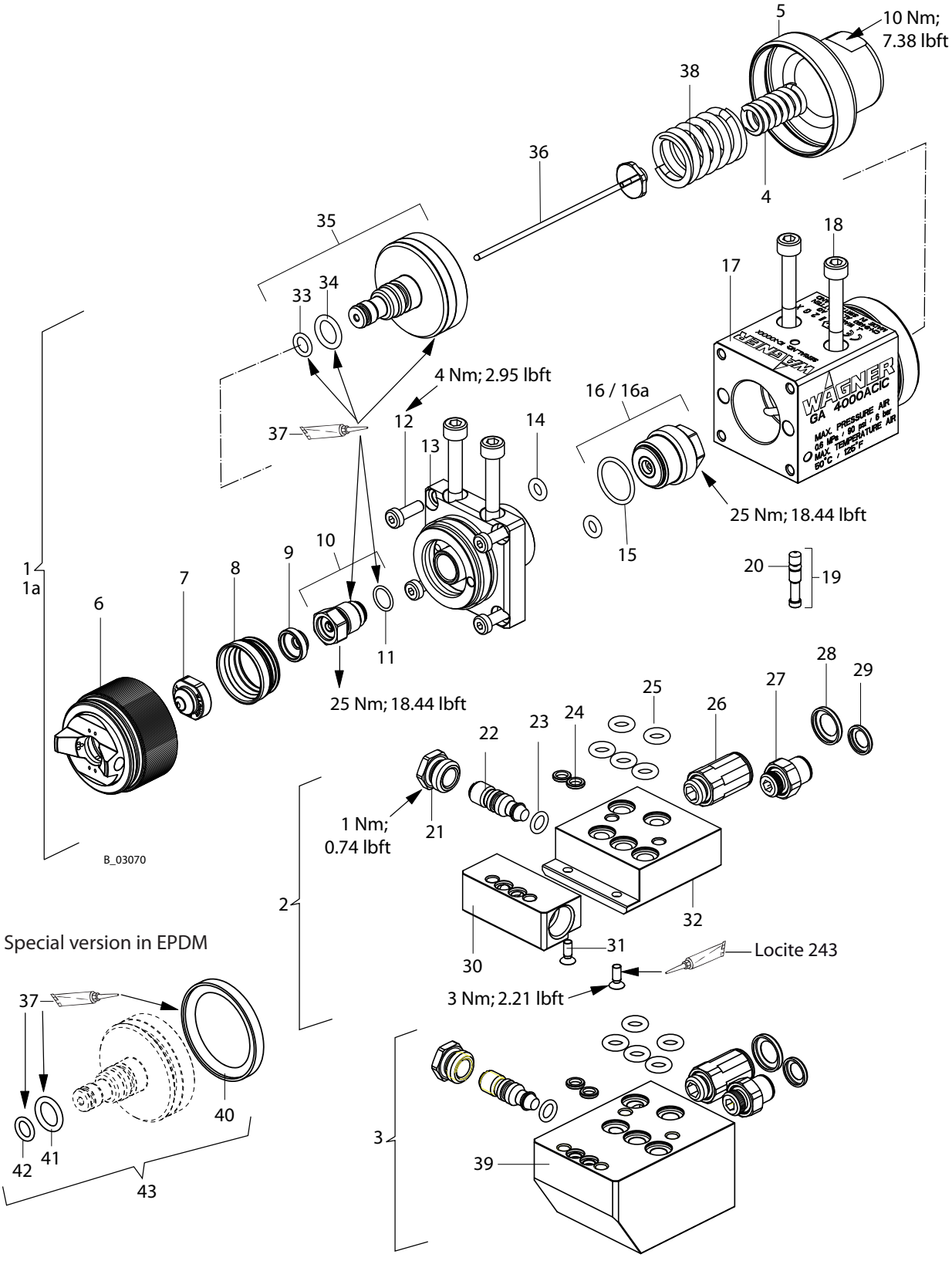
● Not part of the standard equipment but available as a special accessory.

⚠ WARNING

Incorrect maintenance/repair!
Risk of injury and equipment damage.

→ Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.
→ Before all work on the device and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and device.
- Secure the spray gun against actuation.
→ Observe the operating manual and service instructions at all times when carrying out work.

11.2 SPARE PARTS LIST FOR GA 4000ACIC



Pos	K	Stk	Order No.	Designation
1	◆	1	2312132	Spray gun body GA 4000ACIC
1a	◆	1	2338603	Spray gun body GA 4000ACIC (RP)
2	◆ ●	1	2312144	Base plate GA 4000ACIC-S complete
3	◆ ●	1	2308810	Base plate GA 4000ACIC-R complete
4		1	2309945	Helical spring
5		1	2314274	End cap short
6	●	1	2308808	Air cap LV plus (red)
6	●	1	2308809	Air cap HV plus (blue)
6	●	1	2313493	Air cap LA plus (bronze)
6	●	1	2340299	Air cap LV plus (blank)
7	●	1	379…	AC nozzle
8	◆	1	394339	Sealing ring
9	◆	1	364328	Nozzle seal
10	◆	1	2314279	Valve housing, complete
11	◆	1	9974245	O-ring
12		4	2307893	Socket cap screw
13		1	2314278	Head piece
14	◆	2	9974153	O-ring
15	◆	1	367528	O-ring
16	◆	1	2313516	Standard packing
16a	◆	1	2338601	Packing insert GA 4000AC (RP)
17		1	2314277	Piston housing IC
18		4	2308292	Socket cap screw
19	●	1	2310534	Complete product channel lock pin
20	◆	1	2307873	O-ring
21		1	2307739	Mounting nut
22		1	2307868	Round spray jet reduction
23	◆	1	9971388	O-ring
24	◆	2	2310473	Sealing product
25	◆	5	9974265	O-ring
26		1	9998993	Straight screw-in fitting
27		1	9998090	Straight screw-in fitting
28		1	9998618	Coding ring blue
29		1	9998995	Coding ring red
30		1	2316366	Product adapter plate
31		2	2310556	Hexagon socket countersunk head screw
32		1	2316367	Adapter plate IC-S
33	◆	1	248314	O-ring
34	◆	1	9971025	O-ring
35	◆	1	2314275	Complete piston IC
36	◆	1	2314273	Complete valve rod IC
37	●	1	9992698	Vaseline white PHHV
38		1	9998991	Helical spring

◆ = Wearing part

-> For service sets, see chapter 11.3.

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

Pos	K	Stk	Order No.	Designation
39		1	2314242	Base plate GA 4000ACIC R
40	◆ ●	1	2322531	Piston seal EPDM
41	◆ ●	1	2322530	O-ring
42	◆ ●	1	9974179	O-ring
43	◆ ●	1	2322532	Sealing set GA 4000ACIC(EPDM)

◆ = Wearing part

-> For service sets, see chapter 11.3.

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

11.3 SERVICE SETS AND SPARE PARTS GROUPS

Order No.	Designation	Consisting of spare parts items
2314353	Spray gun body GA 4000ACIC service set	8, 9, 11, 14, 16, 33, 34
2338657	Spray gun body GA 4000ACIC service set	8, 9, 11, 14, 33, 34
2314355	Base plate GA 4000ACIC service set	23, 24, 25
2322532	Sealing set GA 4000ACIC(EPDM)	40, 41, 42

11.4 PACKING INSERT GA 4000AC (RP)

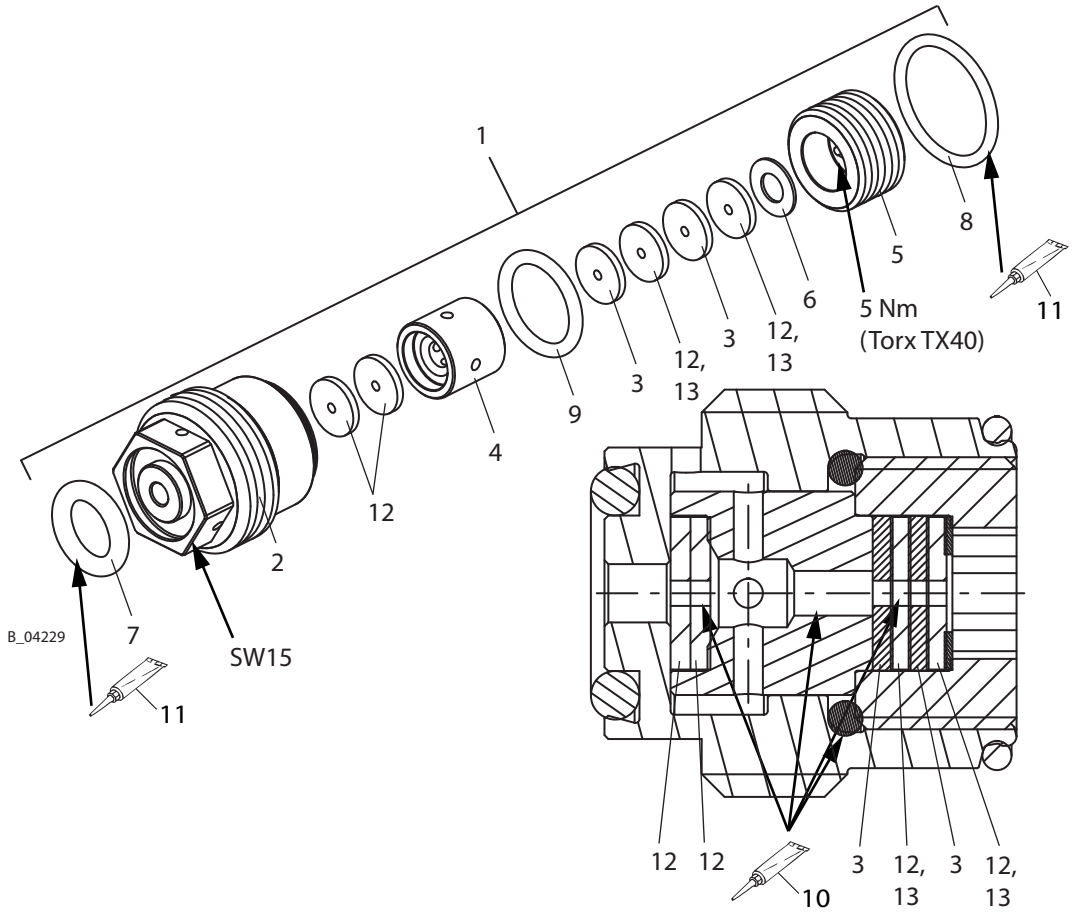
Spare parts list					Set of 12 packings
Pos	K	Designation	Stk	Order No.	Order No.
1		Packing insert GA 4000AC (RP)	1	2338601	-
2		Housing	1	-	-
3	◆	PE sealing washer	2	-	2339142
4		Housing insert	1	-	-
5		Housing screw	1	-	-
6	◆	Pressure disk	1	2338567	-
7	◆	O-ring	1	9974196	-
8	◆	O-ring	1	367528	-
9	◆	O-ring	1	2338570	-
10		Mobilux EP 2 grease	1	9998808	-
11		Vaseline white PHHV II	1	9992698	-
12	◆	PTFE + GF sealing washer	4	-	2339141
13	◆ ●	PTFE sealing washer	2	-	2339143
14		Assembly manual for GA4000AC packing (RP)	1	2338708	-

◆ = Wearing part

-> For sealing sets, see chapter 11.5.

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

Packing insert GA 4000AC (RP)



11.5 SEALING SET GA 4000 PACKING RP AND RP SPECIAL

Order No.	Designation	Consisting of spare parts items
2339140	Sealing set GA 4000 packing RP	3, 6, 7, 8, 9, 12, 14
2339810	Sealing set GA 4000 packing RP special	3, 6, 7, 8, 9, 12, 13, 14

12 WARRANTY AND CONFORMITY DECLARATIONS

12.1 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.

12.2 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, labour 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 materials 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, packings, 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

12.3 CE DECLARATION OF CONFORMITY

Herewith we declare that the supplied version of
AirCoat automatic gun GA 4000ACIC

complies with the following guidelines:

2006/42/EC	94/9/EC

Applied standards, in particular:

DIN EN ISO 12100: 2011	DIN EN 13463-1: 2009
DIN EN 1127-1: 2011	DIN EN 13463-5: 2011
DIN EN 1953: 2010	DIN EN ISO 13732-1: 2008
DIN EN ISO 14462: 2010	DIN EN 4413: 2011
DIN EN ISO 80079-34: 2012	

Identification:

CE Ex II 2G X

EC 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: 2315627

12.4 NATIONAL TECHNICAL SPECIFICATIONS

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

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

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