WAGNER

Translation of the Original Operating Manual

FineFinish

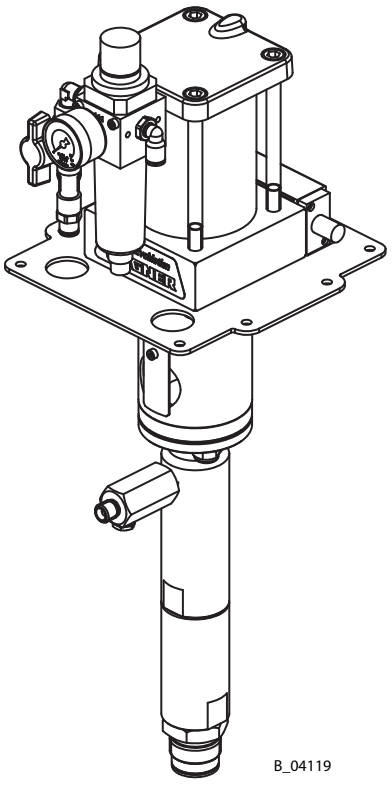
40-15

20-30

Version 03/2013

Piston Pumps

Flow Rate 15 cm³ - 30 cm³



B_04119

CE Ex II 2G IIB c T3 X

Contents

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1 ABOUT THIS OPERATING MANUAL

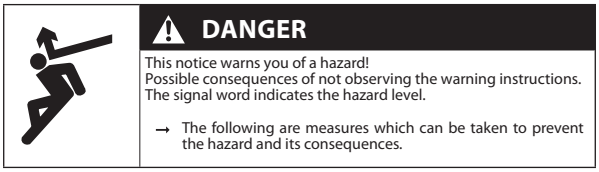
1.1 PREFACE

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.

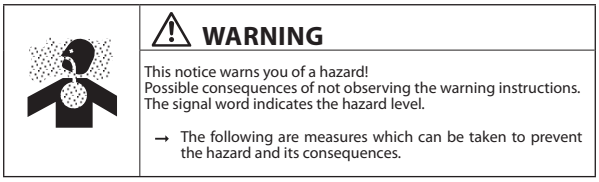
1.2 WARNINGS, NOTICES, AND SYMBOLS IN THIS OPERATING MANUAL

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:

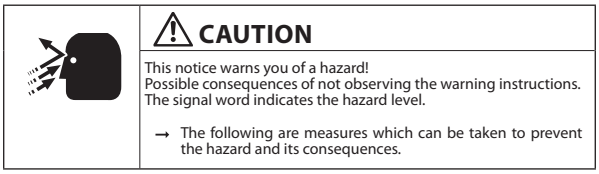
Danger - immediate risk of danger.
Non-observance will result in death or serious injury.



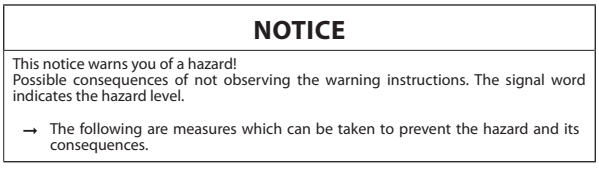
Warning - possible imminent danger.
Non-observance may result in death or serious injury.



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.
German	2310798
French	2310800
Italian	2310802
Portuguese	2310804
Danish	2310805

Language	Order No.
English	2310799
Spanish	2310803
Dutch	2310801
Swedish	2310806

1.4 ABBREVIATIONS IN THE TEXT

Stk	Number of pieces
Pos	Position
K	Marking in the spare parts lists
Order No.	Order No.
No.	Number
DH	Double stroke
SSt	Stainless steel
2K	Two components

2 CORRECT USE

2.1 DEVICE TYPES

Pneumatic pump with spraypack:

FineFinish	
40-15	20-30

2.2 TYPE OF USE

The device is suitable for processing liquid materials such as paints and varnishes in accordance with their classification into explosion classes IIA or IIB.

2.3 USE IN AN EXPLOSION HAZARD AREA

The pneumatic pump 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 materials recommended by WAGNER.
- → Only operate the device as a whole.
- → Do not deactivate safety fixtures.
- → Use only WAGNER original spare parts and accessories.

The pneumatic pump may only be operated under the following conditions:

- → The operating staff must be 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 MATERIALS

→ Fluid materials such as paints and varnishes.

NOTICE
Abrasive materials and pigments! Greater wear of parts carrying the material. → Use the application-oriented model (flow rate/cycle, material, valves, etc.) as indicated in Chapter 5.3.2. → Check if the fluids and solvents used are compatible with the pump construction materials as indicated in Chapter 5.3.1.

2.6 REASONABLY FORESEEABLE MISUSE

The following is prohibited:
→ coating work pieces which are not grounded,
→ unauthorized conversions and modifications to the pneumatic pump,
→ processing powder or similar coating materials, 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 coating material and
→ incorrectly set values for processing.

Wagner pneumatic pumps are not designed for pumping 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 paints and cleaning agents	Handling of paints and cleaning agents	Skin irritations, allergies	Wear protective clothing, Observe safety data sheets	Operation, maintenance, disassembly
Paint in air outside the defined working area	Painting outside the defined working area	Inhalation of substances which are hazardous to health	Observe working and operating instructions	Operation, maintenance

3 IDENTIFICATION

3.1 EXPLOSION PROTECTION IDENTIFICATION

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 IIB c T3 X

CE:	European Communities
Ex:	Symbol for explosion protection
II:	Device class II
2:	Category 2 (Zone 1)
G:	Ex-atmosphere gas
IIB:	Explosion group
c:	Constructional safety
T3:	Temperature class: maximum surface temperature < 200 °C; 392 °F
X:	Special Notes (see Chapter 3.2)

3.2 IDENTIFICATION X

Maximum surface temperature
The maximum surface temperature of the piston pump can be reached if it runs dry.
→ Ensure that the piston pump is filled with sufficient working or flushing agent.
→ Ensure that the separating agent container is filled with sufficient separating agent.
Ignition temperature of the coating material
→ Ensure that the ignition temperature of the coating material is above the maximum surface temperature.
Ambient temperature
→ The permissible ambient temperature is: +5 °C to +60 °C; +41 °C to 140 °F.
Medium supporting atomizing
→ To atomize the material, use only weakly oxidizing gases, e.g. air.

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.

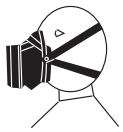
4.1.1 ELECTRICAL EQUIPMENT

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



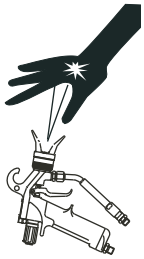
→ Ensure that the floor in the working area is electrically conductive in accordance with EN 61340-4-1 (resistance must not exceed 100 Mohm).
→ Ensure that all persons within the working area wear electrostatically conductive shoes. Footwear must comply with EN 20344. The measured insulation resistance must not exceed 100 Mohm.
→ Ensure that during spraying, persons wear electrically conductive gloves. The 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 Mohm.
→ 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:
– Material/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 these instructions, 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.
  – 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.
→ The liquid emitters 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 emitters (ZH 1/406 and BGR 500 Part 2 Chapter 2.36).
  – For shut down devices, the examination can be suspended until the next commissioning.
→ Carry out the work steps as described in the "Pressure Relief/Work Interruptions" 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 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 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 electrostatically conductive shoes.
→ Wear electrostatically conductive gloves when spraying. The grounding takes place via the spray gun handle.

4.2.3 MATERIAL HOSES

→ Ensure that the hose material is chemically resistant to the sprayed materials.
→ Ensure that the material hose is suitable for the pressure generated in the device.
→ Ensure that the following information can be seen on the high-pressure hose:
  – Manufacturer
  – Permissible operating overpressure
  – Date of manufacture
→ 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.
When the pump sucks liquid from a closed container, ensure that air or suitable gas can enter the container to avoid a vacuum being generated in the container itself. Thus a negative pressure is avoided. The vacuum could implode the container (squeeze) and can cause it to break. The container 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

→ 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.
→ Preferably, non-combustible cleaning agents should be used.

An explosive gas/air mixture forms in closed containers.
→ When cleaning devices with solvents, never spray into a closed container.
→ Only use electrically conductive containers for cleaning liquids.
→ The containers must be grounded.

4.2.5 HANDLING HAZARDOUS LIQUIDS, VARNISHES, AND PAINTS

→ When preparing or working with paint and when cleaning the device, follow the working instructions of the manufacturer of the paints, 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 materials.

4.2.6 TOUCHING HOT SURFACES

→ Only touch hot surfaces if you are wearing protective gloves.
→ When operating the device with a coating material with a temperature of > 43 °C; 109 °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 pneumatic pump 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.
- → Only use tools that are made of a permitted material.

Ignition temperature of the pumped material
- → Check that the ignition temperature of the pumped material is higher than the max. allowable surface temperature.

Medium supporting atomizing
- → To atomize the material, use only weakly oxidizing gases, e.g. air.

Surface spraying, electrostatics
- → Do not spray device parts using electrostatic equipment.

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.
- → Only use a damp cloth to clean the device.

4.3.2 OPERATION WITHOUT FLUID

Avoid running the pump so that it sucks in air (without fluid inside). The air, combined with the vapor of flammable fluids, can generate internal areas with an explosion hazard.
Periodically check that the pump is working smoothly, paying special attention to the presence of air in the pumped fluid, which may be caused by damaged packings.
- → Avoid operating the pump with damaged packings.
- → Ensure that the separating agent container is filled with sufficient separating agent.

5 DESCRIPTION

5.1 FIELD OF APPLICATION

5.1.1 CORRECT USE

The pneumatic piston pump is suitable for conveying and processing (AirCoat technique) liquid materials in accordance with Chapter 5.1.2.

5.1.2 PROCESSIBLE MATERIALS

	FineFinish 40-15 20-30
Application	
Water-based materials	↗
Solvent-based materials	↗
Low viscosity (<40 sec. DIN No. 4)	↗
Medium viscosity (40 to 60 sec. DIN No. 4)	↗
High viscosity (>60 sec. DIN No. 4)	↘
UV - sensitive materials	➟
Shear sensitive materials	↘
Humidity sensitive materials	↘

Legend

↗ recommended ➟ limited suitability ↘ less suitable

NOTICE

Abrasive materials and pigments!
Greater wear of parts carrying the material.

→ Use suitable combinations of devices (packings, valves, etc.)

5.2 SCOPE OF DELIVERY

Pneumatic piston pump consisting of:
- Fluid section
- Air motor
- Connection elements

Separating agent 250 ml	Order No.: 9992504
Conformity certificate GM2000W	see Chapter 12
Operating manual, German	Order No.: 2310798
Operating manual in the local language	see Chapter 1

The delivery note shows the exact scope of delivery.
Accessories: see Chapter 10.

5.3 DATA

5.3.1 MATERIALS OF PAINT-WETTED PARTS

Pump housing	Stainless steel
Piston	Stainless steel
Valve balls	Stainless steel
Valve seats	Stainless steel
Static seals	PTFE
Packings	PE / T

PE = Ultra high molecular weight polyethylene
T = PTFE

5.3.2 TECHNICAL DATA

Description	Units	FineFinish 40-15	FineFinish 20-30
Pump ratio		40:1	20:1
Volume flow per double stroke (DH)	cm^3; cc	15	30
Maximum operating overpressure	MPa bar psi	25.0 250 3626	16.0 160 2320
Maximum possible strokes in operation	DH/min	60	60
Minimum/maximum air inlet pressure	MPa bar psi	0.2-0.8 2-8 28-116	
Ø air inlet connection (inside thread)	mm inch	8.0 0.31	
Minimum Ø of the compressed air supply line	mm inch	9.0 0.35	
Air consumption at 0.6 MPa; 6 bar; 87 psi per double stroke	nl scf	3.9 0.14	
Air motor piston diameter	mm inch	80 3.15	
Air motor piston stroke	mm inch	60 2.4	
Sound pressure level at maximum permissible air pressure*	dB(A)	72	
Sound pressure level at 0.6 MPa; 6 bar; 87 psi air pressure*	dB(A)	69	
Sound pressure level at 0.4 MPa; 4 bar; 58 psi air pressure*	dB(A)	65	
Material inlet (outside thread)	mm	M36x2	
Material outlet (outside thread)	inch	NPS 1/4"	
Weight	kg lb	9 19.8	11 24.7
Material pH value	pH	3.5 ÷ 9	
Maximum material pressure at pump inlet	MPa bar psi	2 20 90	
Material temperature	°C °F	+5 ÷ +80 +41 ÷ +176	
Ambient temperature	°C °F	+5 ÷ +60 +41 ÷ +140	
Allowable inclination for operation	<) °	± 10	

* A-rated sound pressure level measured at 1 m distance, LpA1m, in accordance with DIN EN 14462: 2005.

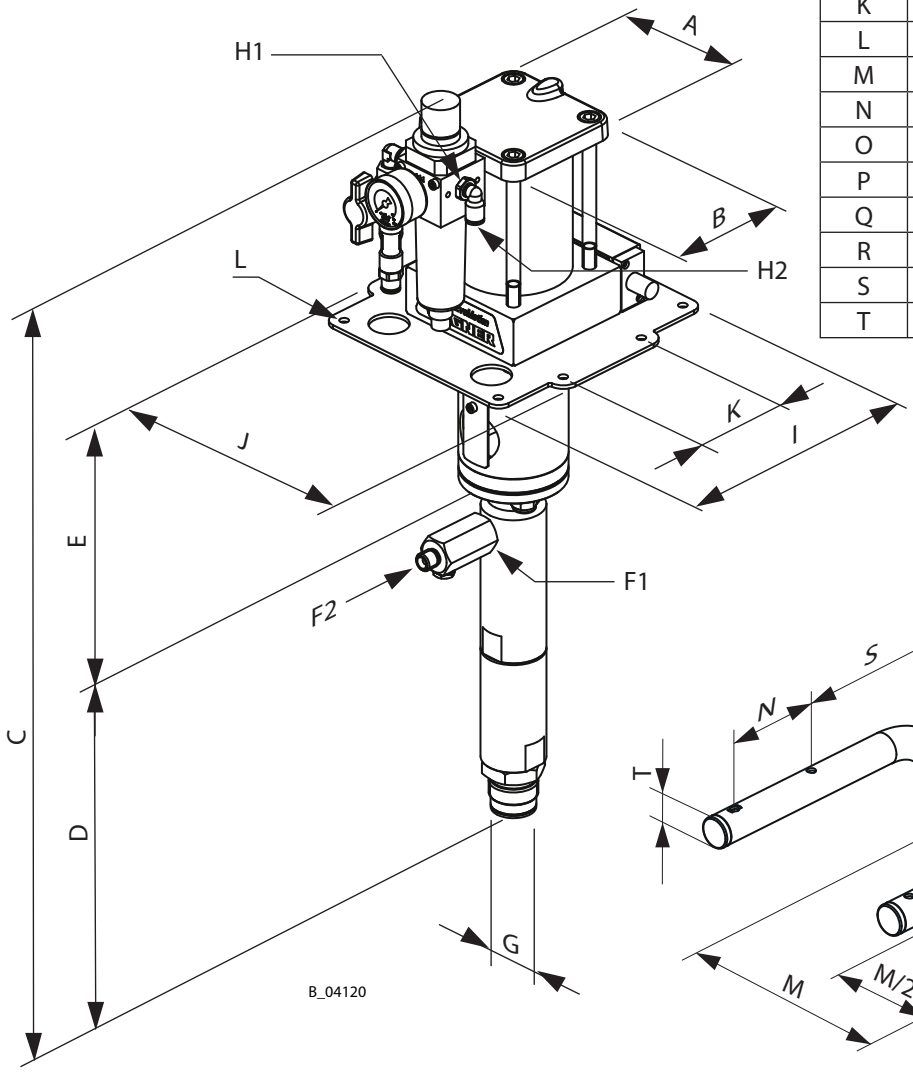
⚠ WARNING

Outgoing air containing oil!
Risk of poisoning if inhaled.
Air motor switching problems.

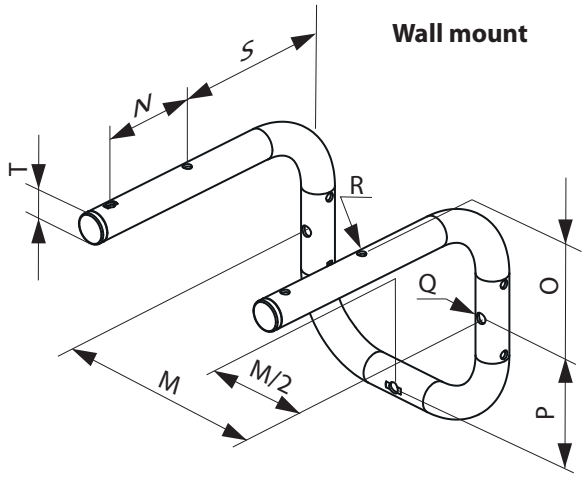
→ Provide compressed air free from oil and water
(Quality Standard 5.5.4 in accordance with ISO 8573.1)
5.5.4 = 40 µm / +7 / 5 mg/m³.

5.3.3 MEASUREMENTS AND CONNECTIONS FOR FINEFINISH 40-15

	FineFinish 40-15	
	mm	inch
A	104	4.09
B	108.5	4.27
C	621	24.45
D	276.5	10.89
E	134	5.28
F1	G 1/4"	
F2	NPS 1/4"	
G	M36x2	
H1	G 1/4"	
H2	ø 8	ø 0.31
I	210	8.27
J	207	8.15
K	86	3.39
L	ø 7	ø 0.28
M	182	7.17
N	80	3.15
O	106	4.17
P	96.5	3.8
Q	ø 9	ø 0.35
R	ø 7	ø 0.28
S	149	5.87
T	ø 25	ø 1

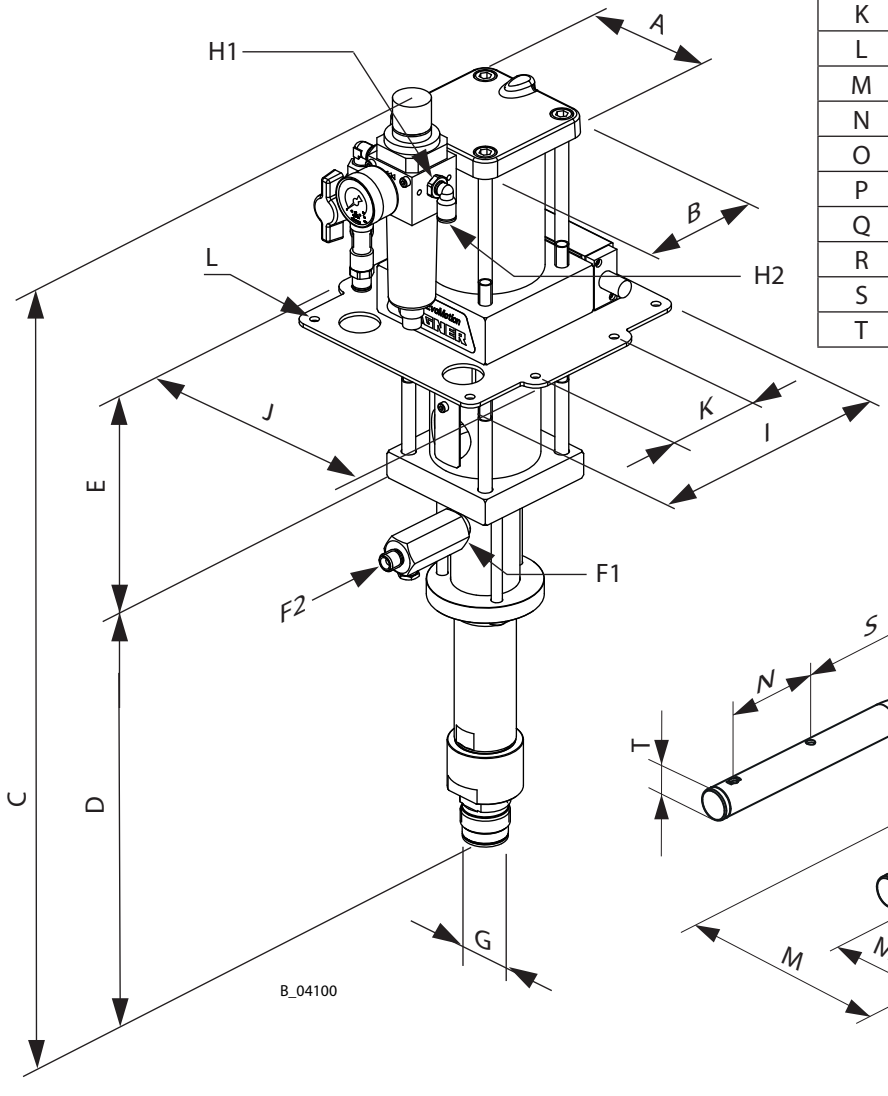


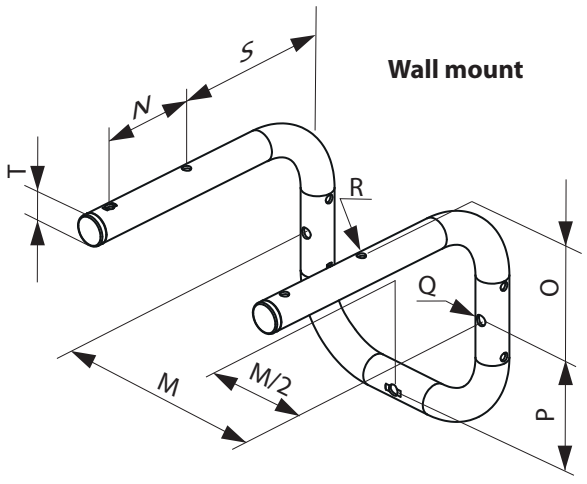
Wall mount



5.3.4 MEASUREMENTS AND CONNECTIONS FOR FINEFINISH 20-30

	FineFinish 20-30	
	mm	inch
A	104	4.09
B	108.5	4.27
C	643	25.3
D	201	7.91
E	134.5	5.3
F1	G 3/8"	
F2	NPS 1/4"	
G	M36x2	
H1	G 1/4"	
H2	ø 8	ø 0.31
I	210	8.27
J	207	8.15
K	80	3.15
L	ø 7	ø 0.28
M	182	7.17
N	80	3.15
O	106	4.17
P	96.5	3.8
Q	ø 9	ø 0.35
R	ø 7	ø 0.28
S	149	5.87
T	ø 25	ø 0.98





5.3.5 PERFORMANCE DIAGRAMS

Example

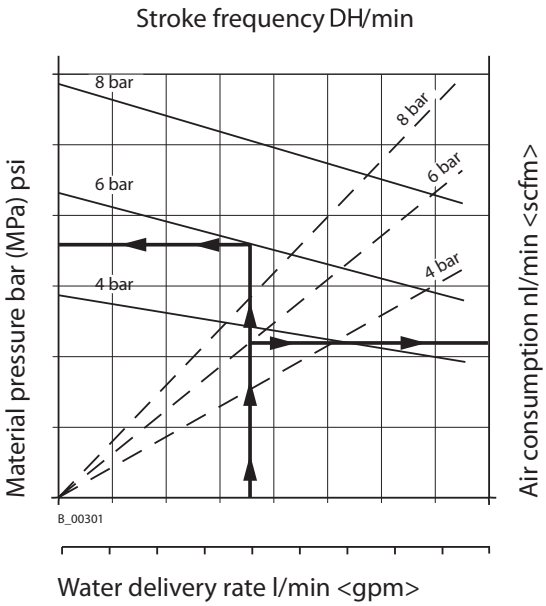
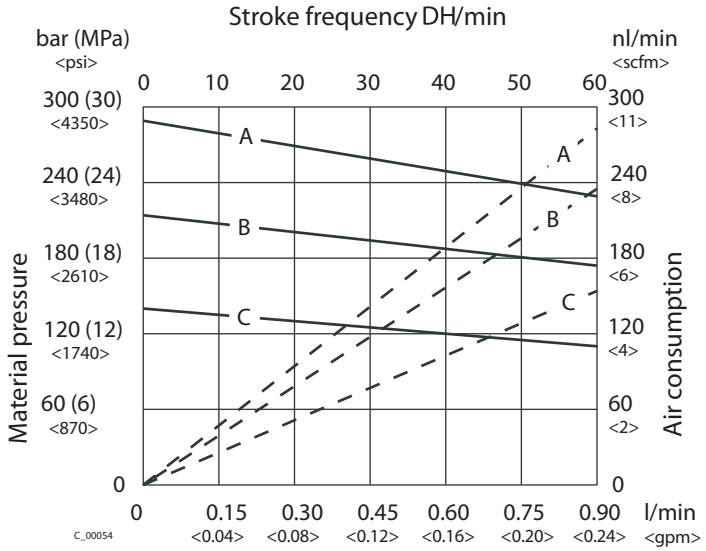


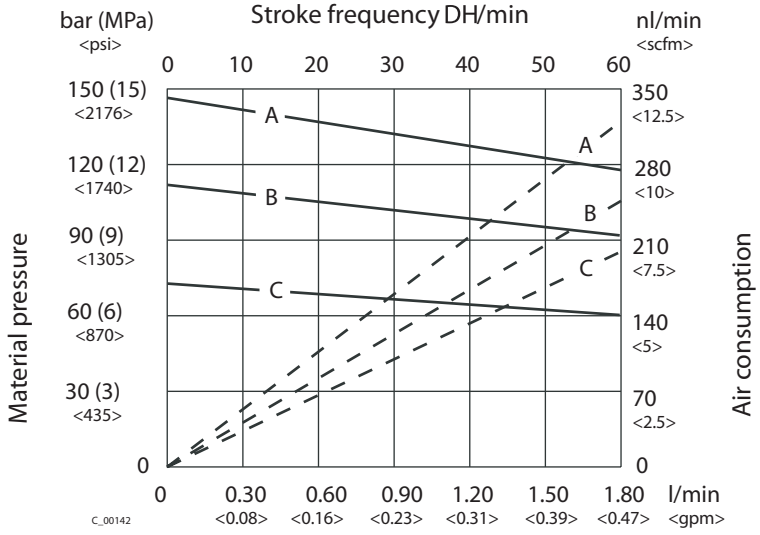
Diagram of FineFinish 40-15



Material flow - water

A = 8 bar; 0.8 MPa; 116 psi air pressure
B = 6 bar; 0.6 MPa; 87 psi air pressure
C = 4 bar; 0.4 MPa; 58 psi air pressure

Diagram of FineFinish 20-30



Material flow - water

A = 8 bar; 0.8 MPa; 116 psi air pressure
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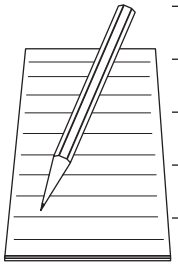
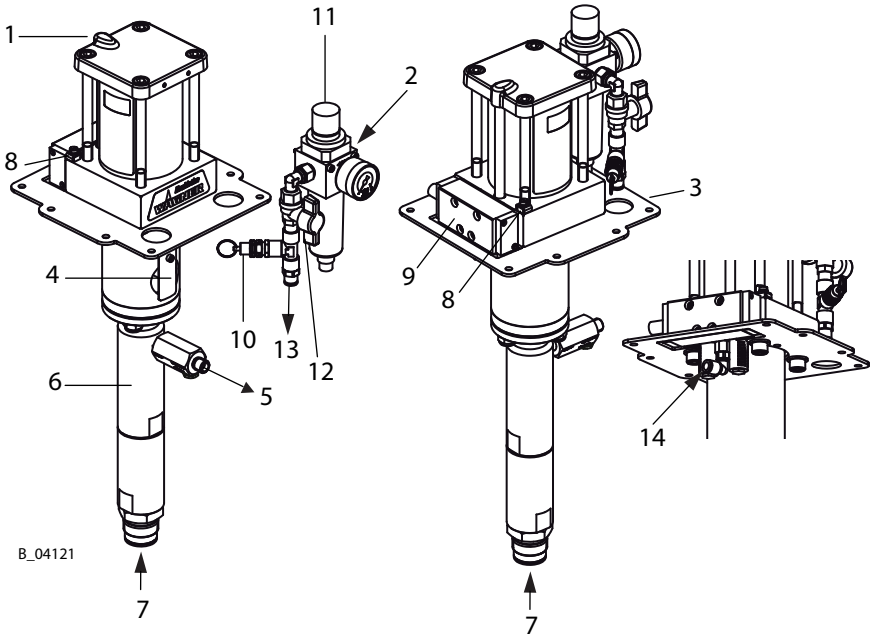


5.4 FUNCTION

5.4.1 PUMP



1 Air motor
2 Air inlet
3 Mounting flange
4 Separating fluid container
5 Material outlet
6 Fluid section
7 Material inlet
8 Grounding connection
9 Reversing valve
10 Safety valve (air motor ventilation)
11 Air pressure regulator
12 Ball valve
13 Air outlet to the reversing valve
14 Air inlet into the reversing valve

Function principle
The piston pump is driven with compressed air (11). This compressed air moves the air piston up and down in the air motor (1) and it also moves the associated pump piston up and down in the fluid section (6). At the end of each stroke, the compressed air is redirected by a reversing valve (9).
The working material is sucked up during the upwards stroke and is continuously conveyed towards the material outlet (5) in both stroke directions.

Air motor
The air motor (1) with its pneumatic reverse (9) does not require pneumatic oil.
The compressed air is fed to the motor via an air regulator (11) and the ball valve (12).
The air motor is to be equipped with a safety valve (10) in accordance with Chapter 5.4.3. The safety valve (10) has been set and sealed at the factory. In case of pressures over and above the permissible operating pressure, the valve, which is held with a spring, automatically opens and releases the excess pressure.

⚠ WARNING

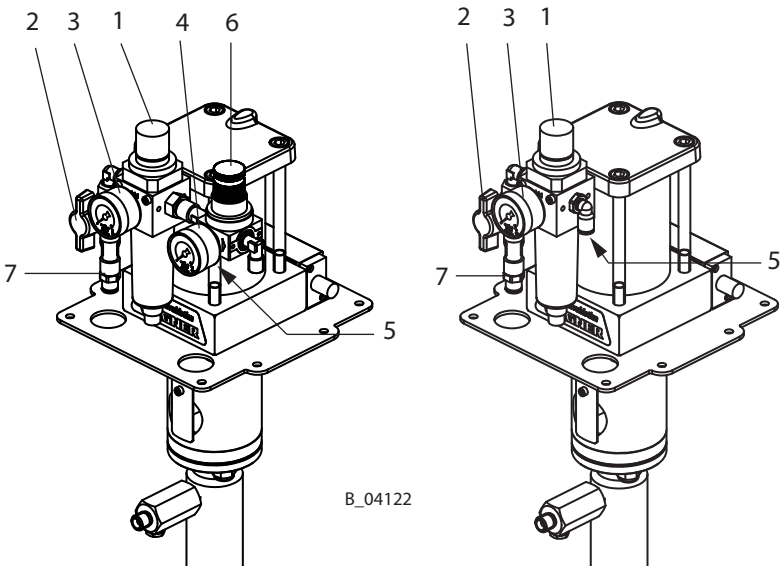
Overpressure!
Risk of injury from bursting components.

→ Never change the safety valve setting.

Fluid section (6)
The fluid section has been designed as a piston pump with exchangeable ball valves. The pump piston runs in two fixed packings which are self-adjusting by means of a pressure spring, thus resulting in a long service life.
Between the air motor and the fluid section there is a separating agent cup (4) for holding the separating agent.

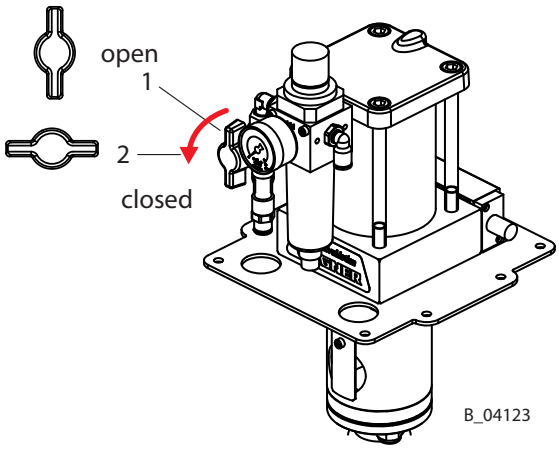
5.4.2 PRESSURE REGULATOR UNIT

1 Pressure regulator
2 Ball valve
3 Pressure gage (air inlet pressure)
4 Pressure gage for AirCoat air (option)
5 Compressed air inlet
6 Pressure regulator AirCoat (option)
7 Safety and motor pressure relief valve



Ball valve positions:

1 Open: working position
2 Closed: the air motor may still be under pressure.

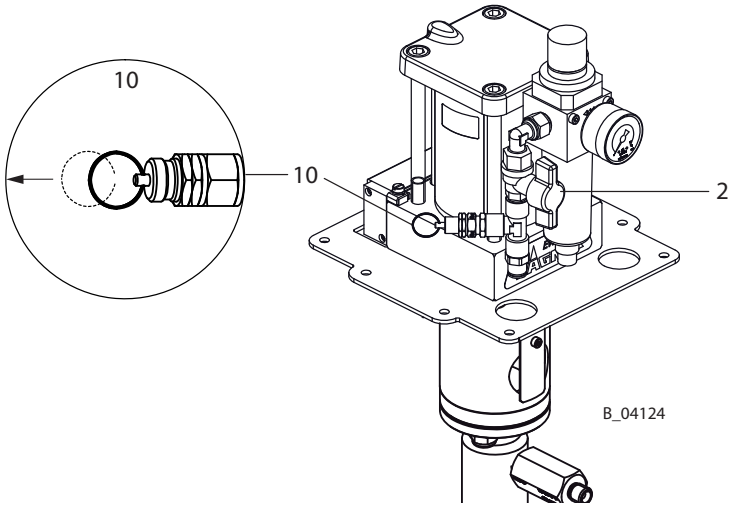


5.4.3 SAFETY AND MOTOR PRESSURE RELIEF VALVE

Safety valve
The safety valve (10) has been factory adjusted so as to ensure that if pressure exceeds the permitted operating pressure, the valve, which is held with a spring, automatically opens and releases the excess pressure.
As well as handling pressure limits, the valve is also used as a pressure relief valve for the air motor.

Pressure relief of the air motor:

1 Close ball valve (2).
2 Pull back the ring on the safety valve (10) and hold it there until the pressure in the air motor has been equalized.



⚠ WARNING

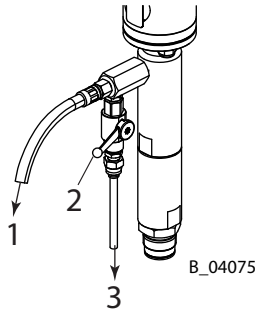
Overpressure!
Risk of injury from bursting components.

→ Never change the safety valve setting.

5.4.4 RETURN VALVE

So that the complete pressure relief of the pump can be performed (see Chapter 7.2.2), the installation of a return valve is mandatory.
The suitable return valves (ball valves), return pipes and hoses for the device can be found in the accessories list.

1 Material outlet
2 Return valve
3 Material return line



6 ASSEMBLY AND COMMISSIONING

6.1 TRANSPORTATION

The pump can be moved on a trolley or manually without lifting equipment.

6.2 STORAGE

Store the pump in a closed and dry environment.
Thoroughly clean the pump, if a long-term decommissioning is planned.
When resuming pump operation, proceed as described in the following sections.

⚠ WARNING

Discharge of electrostatically charged components in atmospheres containing solvents!
Explosion hazard from electrostatic sparks.

→ Only use a damp cloth to clean the pump.

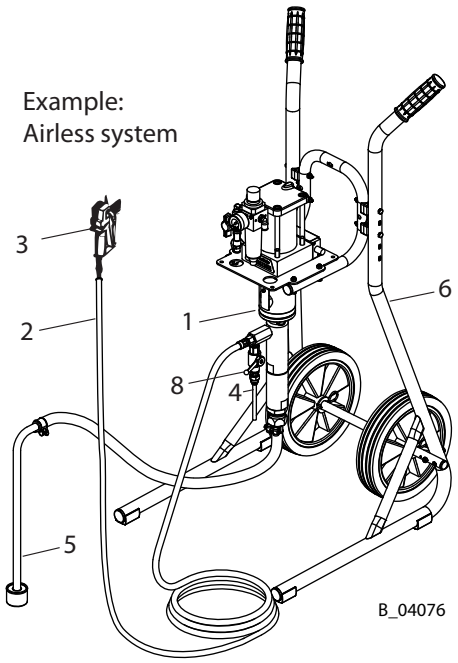
6.3 ASSEMBLING THE PUMP

Notice
This pump can be used as part of a spraying system for Airless or AirCoat applications. Individual supplement components for this pump can be found in the Wagner Accessories Catalogue, or can be put together with the Spraypack Configurator. The nozzles must be selected according to the gun instructions. In the case of spraypack orders, the pumps (1) are already pre-mounted on a trolley (6) or on a stand at the factory.

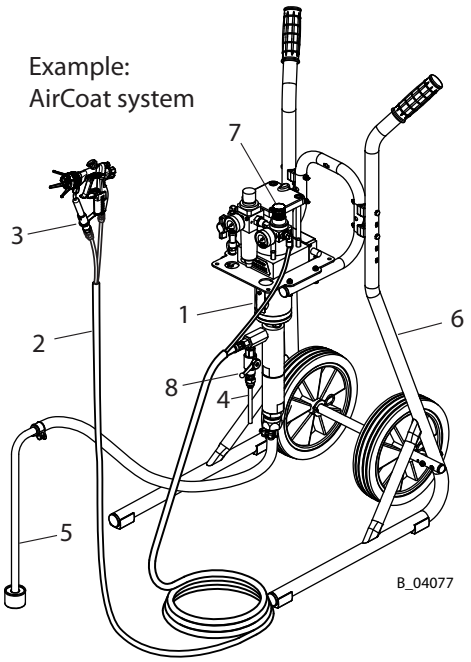
Procedure:

1 Mount pump (1) on stand, trolley (6), or wall mount.
2 Mount an AirCoat system with the pressure regulator (7) and secure the thread at the air inlet to the pump (1) with Loctite 270.
3 Mount suction system (5).
4 Mount the return valve (8) for pressure relief or material circulation.
5 Mount return tube (4) or return hose.
6 Connect the high pressure hose (2) and gun (3) in accordance with the gun operating manual.

Example:
Airless system



Example:
AirCoat system



⚠ WARNING

Inclined ground!

Risk of accidents if the device rolls away/falls.

6.4 GROUNDING

⚠ WARNING

Discharge of electrostatically charged components in atmospheres containing solvents!
Explosion hazard from electrostatic sparks.

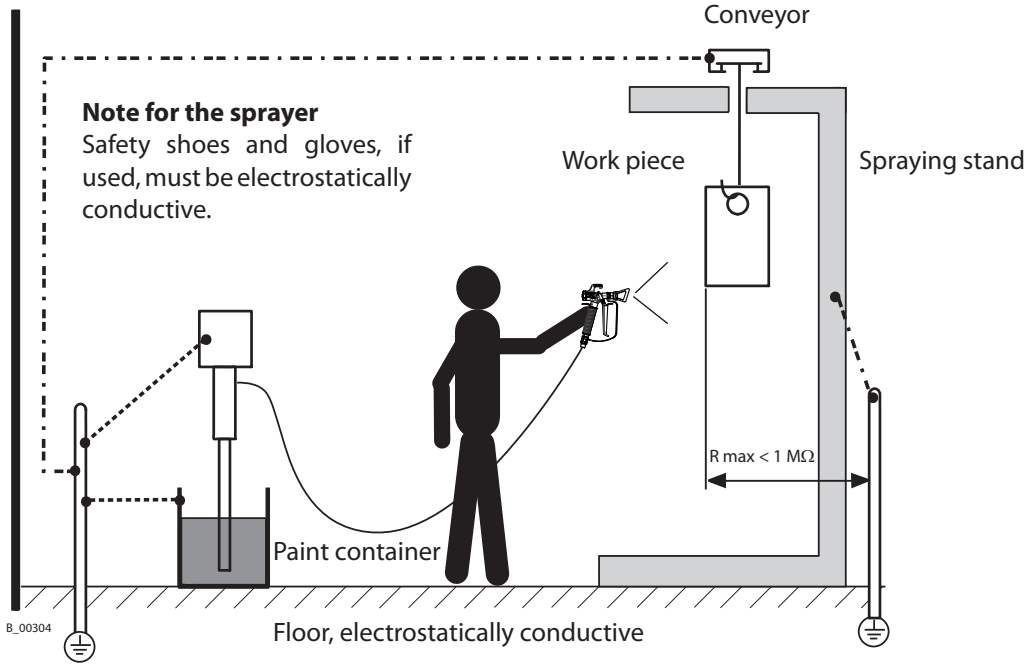
→ Only use a damp cloth to clean the piston pump.

⚠ WARNING

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

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

Grounding scheme (example)

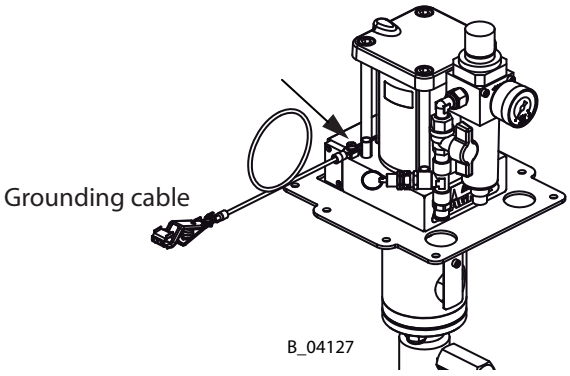


Cable cross sections

Pump	4 mm²; AWG11
Paint container	6 mm²; AWG10
Conveyor	16 mm²; AWG5
Spray booth	16 mm²; AWG5
Spraying stand	16 mm²; AWG5

Procedure:

1 Screw on grounding cable with eye.
2 Clamp the grounding cable clip to a grounding connection on site.
3 Ground the material (paint) container to an on-site grounding connection.
4 Ground the other parts of the system to an on-site grounding connection.

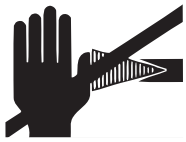


6.5 COMMISSIONING

6.5.1 SAFETY INSTRUCTIONS

Before carrying out any work, the following points must be observed in accordance with the operating manual:

- Observe all safety regulations in accordance with Chapter 4.
- Carry out commissioning properly.



⚠ WARNING

High-pressure spray jet!
Danger to life from injecting paint or solvent.

→ 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.

⚠ WARNING

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

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

⚠ WARNING

Gas mixtures can explode if there is an incompletely filled pump!
Danger to life from flying parts.

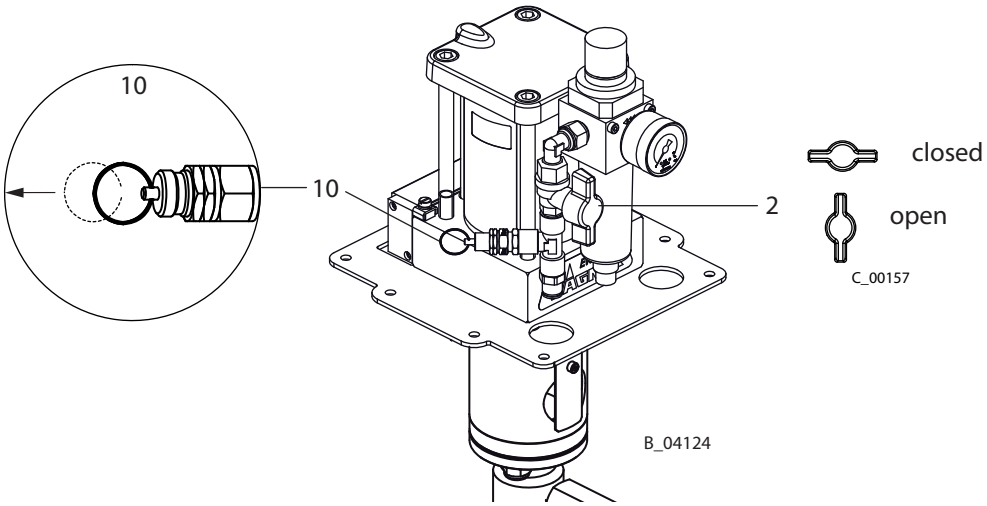
→ Ensure that the pump and suction system are always completely filled with flushing agent or working medium.
→ Do not spray the device empty after cleaning.

Before every start-up, the following points should be observed as laid down in the operating manual:

- Check the permissible pressures.
- Check all connecting parts for leaks.
- Check hoses for damage.

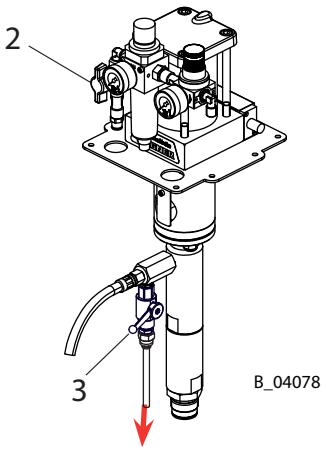
It should be ensured that the device is in the following state before carrying out any work on it:

- Interrupt the air supply (2).
- Depressurize the air motor (pull the ring on the safety valve (10)).
- Relieve the pressure from the fluid section.



EMERGENCY STOP

In the case of unforeseen occurrences the ball valve (2) should be closed immediately.
Open the safety valve (10) and relieve the material-conveying parts completely of pressure via the return valve (3).

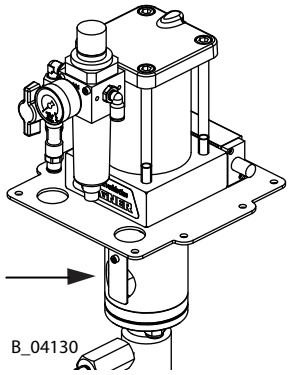


6.5.2 FILLING WITH SEPARATING AGENT

NOTICE
Piston pump runs dry! High wear/damage to the packings. Paint or solvent can escape if the seals are dry. → Ensure that the separating agent container is filled with sufficient separating agent. Filling level 2 cm; 0.8 inch under the cup edge.

Pour the supplied separating agent into the intended opening.
Filling level: 2 cm; 0.8 inch under the cup edge
Separating agent: See accessories.

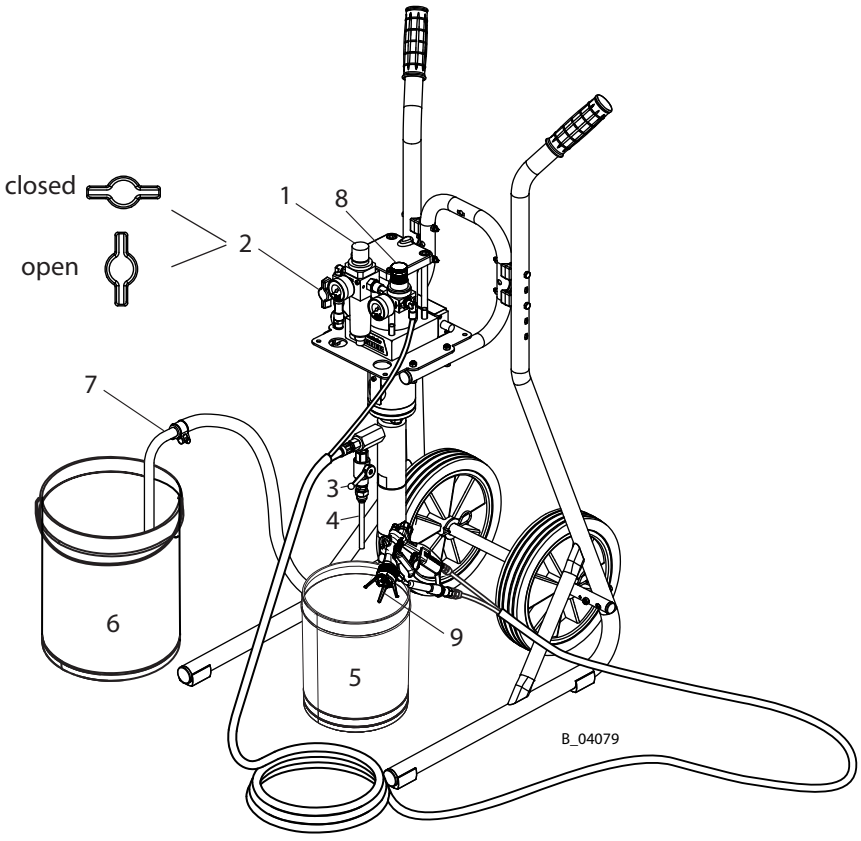
Notice
Maximum permissible inclination of pump for moving, transportation etc. after filling it with separating **agent** ± 30°.
The pump must be vertical during operation.



6.5.3 BASIC FLUSHING

Before each basic flushing, the nozzle must be removed from the pistol. The data in the gun's operating manual are to be observed.
With AirCoat systems, carry out the basic flushing of the system without atomizing air (8).

1 Place empty container (5) under return tube (4).
2 Place suction hose (7) in the container with flushing agent (6).
3 Open return valve (3).
4 Slowly open the ball valve (2).
5 Adjust the air pressure on the pressure regulator (1) so that the pump runs smoothly.
6 Flush the system until clean flushing agent flows into the container (5).
7 Close ball valve (2).
8 Close return valve (3).
9 Point the gun (9), without nozzle, into container (5) and open it.
10 Slowly open the ball valve (2).
11 Rinse until clean flushing agent flows from the gun.
12 Close ball valve (2).
13 Relieve the system pressure, either by opening the return valve (3) or via the trigger on the gun (9).
14 When there is no pressure remaining in the system, close the gun (9) or the return valve (3).
15 Secure the gun.
16 Dispose of the contents of the container (5) according to the local regulations.



7 OPERATION

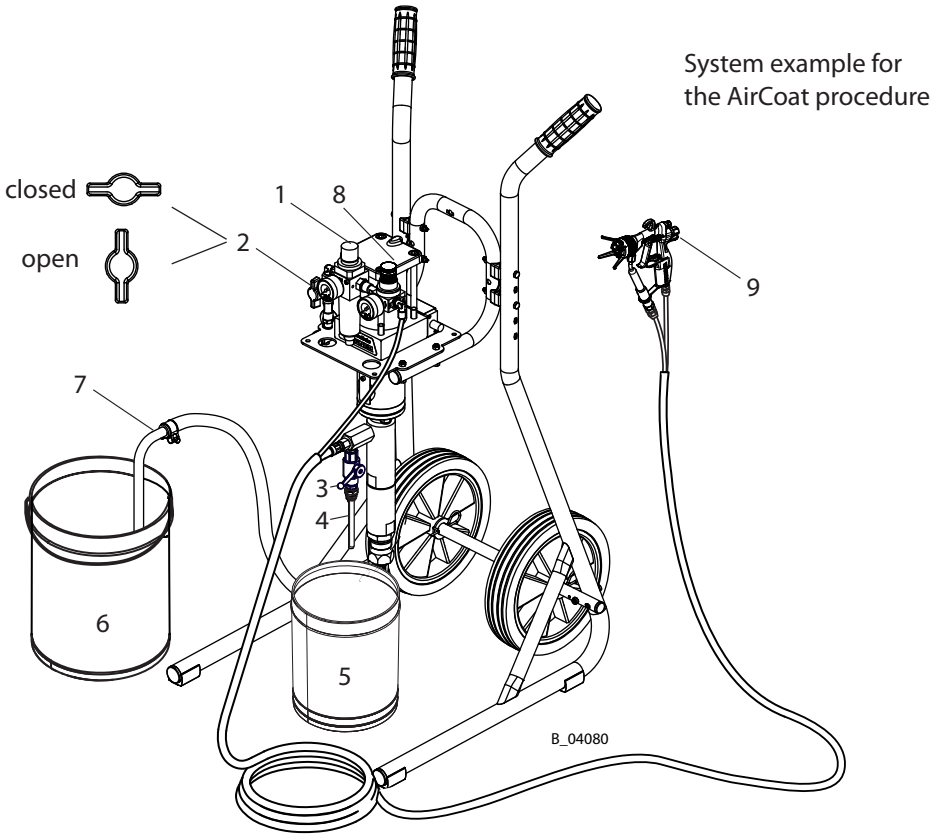
7.1 FILLING WITH WORKING MATERIAL

Note:
Before each filling, the nozzle must be removed from the pistol. The data in the gun's operating manual are to be observed.
In case of AirCoat systems, carry out the filling of the system without atomizing air (8).

1 Place empty container (5) under return tube (4).
2 Place suction hose (7) in the container with working material (6).
3 Open return valve (3).
4 Slowly open the ball valve (2).
5 Adjust the air pressure on the pressure regulator (1) so that the pump runs smoothly.
6 Spray until clean working material flows into the container (5).
7 Close ball valve (2).
8 Close return valve (3).
9 Point the gun (9), without nozzle, into container (5) and open it.
10 Slowly open the ball valve (2).
11 Spray until clean working material flows from the gun (9).
12 Close ball valve (2).
13 Relieve the system pressure, either by opening the return valve (3) or via the trigger on the gun (9).
14 When there is no pressure remaining in the system, close the gun (9) or the return valve (3).
15 Secure the gun.
16 Dispose of the contents of the container (5) according to the local regulations.

7.2 WORK

7.2.1 SPRAYING



1 Secure the gun and insert the nozzle into the gun.
2 Close return valve (3).
3 Slowly open the ball valve (2).
4 Set required working pressure on the pressure regulator (1).
5 Optimize the spraying results according to the data in the gun operating manual.
6 Start work process.

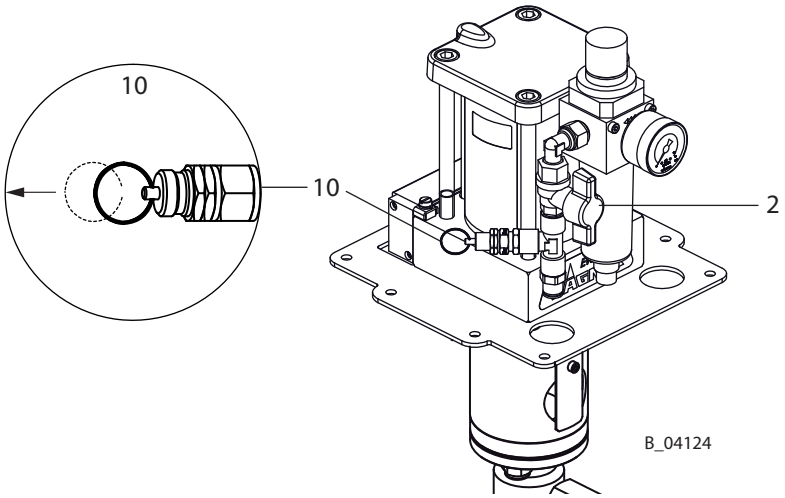
7.2.2 PRESSURE RELIEF/WORK INTERRUPTION

Pressure relief of the material

1 Close the spray gun.
2 Close ball valve (2).
3 Relieve the system pressure, either by opening the gun or by opening the return valve (3).
4 Close and secure gun.
5 Open and close the return valve (3) to completely depressurize the system.

Pressure relief of the air (in case of longer work interruptions)

1 Carry out pressure relief of the material (as mentioned above).
2 Ensure that the ball valve (2) is closed.
3 Pull back the ring on the safety valve (10) and hold it there until the pressure in the air motor has been equalized.



If the system has been used with 2-component materials:

NOTICE

Hardened working material in the spraying system when two-component material is processed!
Destruction of pump and injection system.

→ Follow the manufacturer's processing rules, particularly regarding the pot life.
→ Flush thoroughly before the end of the pot life.
→ The pot life is decreased by warmth.

7.2.3 DECOMMISSIONING AND CLEANING

Notice
The device should be cleaned for maintenance purposes. Ensure that no remaining material dries and sticks.

Procedure:
1 Carry out pressure relief of the material and air -> Chapter 7.2.2.
2 Basic cleaning -> carry out the steps in Chapter 6.5.3.
3 Maintain the gun according to the operating manual.
4 Clean and check the suction system and the suction filter.
5 Clean the outside of the system.

⚠ WARNING

Brittle filter pressure regulator!
The container on the filter pressure regulator becomes brittle through contact with solvents and can burst.
Flying parts can cause injury.

→ Do not clean the container on the filter pressure regulator with solvent.

6 Put the whole system back together.
7 Check the level of the separating agent -> Chapter 6.5.2.
8 Fill the system with flushing agent as laid down in Chapter 7.1 "Filling with Working Material".

⚠ WARNING

Gas mixtures can explode if there is an incompletely filled pump!
Danger to life from flying parts.

→ Ensure that the pump and suction system are always completely filled with flushing agent or working medium.
→ Do not spray the device empty after cleaning.

7.3 LONG-TERM STORAGE

When storing the device for longer periods of time, it is necessary to thoroughly clean it and protect it from corrosion. For the last rinse, replace the water or solvent in the material pump with a suitable preservative. Fill separating agent cup with separating agent. Store pump vertically.

Procedure:

1 Chapter 7.2.3 "Decommissioning and Cleaning", perform points 1 to 7.
2 Flush with preservative according to Chapter 6.5.3 and paint supplier's instructions.
3 If the discharge duct is to be removed, seal material outlet with plug.
4 If the suction system is to be removed, seal material inlet with plug.

8 TROUBLESHOOTING AND RECTIFICATION

Problem	Cause	Remedy
Pump does not work.	Air motor does not work or stops.	Open and close ball valve on the pressure regulator unit or briefly disconnect compressed air supply.
	No pressure indication on the pressure gage (air pressure regulator defective).	Disconnect compressed air supply briefly or repair or change pressure regulator.
	Spray nozzle is clogged.	Clean the nozzle according to the instructions.
	Insufficient compressed air supply.	Check compressed air supply.
	Filter insert in spray gun is clogged.	Clean the parts and use a suitable working material.
	Fluid section or high pressure hose are blocked (e.g., two-component material hardened).	Dismount and clean fluid section, replace high-pressure hose.
	Sometimes, the pump stops at a switching point.	Press the starter on the reversing valve and restart the pump. Clean the slide on the reverse valve carefully and if necessary lubricate it with a light layer of oil.
Poor spray pattern	See gun instructions.	
Irregular pump operation: spray jet collapses (pulsation).	Viscosity is too high.	Thin spraying material.
	Spraying pressure is too low.	Increase air inlet pressure. Use a smaller nozzle.
	Valves are clogged.	Clean pump, if necessary leave it to soak in solvent.
	Foreign body in suction valve.	Dismount suction valve housing, clean, and check valve seat.
	Diameter of compressed air line too small.	Assemble a larger incoming line -> Technical Data, Chapter 5.3.2.
	Valves, packings, or pistons are worn out.	Replace the parts.
	Pressure regulator filter is clogged.	Check filter and clean it if necessary.
The pump runs evenly, does not however, suck up material.	The suction system's union nut is loose; the pump is taking in air.	Tighten union nut.
	Suction filter is clogged.	Clean filter.
	Ball in suction or piston valve is stuck.	Clean balls and valve seats.
Pump runs when the gun is closed.	Packings, valves, or pistons are worn out.	Replace the parts.
Air motor is iced up.	There is a lot of condensation water in the air supply.	Install a water separator.

If none of the causes of malfunction mentioned are present, the defect can be remedied by a WAGNER Service Center.

9 MAINTENANCE

⚠ WARNING

Incorrect maintenance/repair!
Danger to life and equipment damage.

→ 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:
- Disconnect the control unit from the mains.
- 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.

1 Check the level of separating agent in the separating agent cup every day, and top up if necessary.
2 Check and clean the high pressure filter every day or as required (if available).
3 Every decommissioning should be carried out as laid down in Chapter 7.2.3!
4 Check hoses, pipes, and couplings every day and replace if necessary.

→ In accordance with the guideline for liquid emitters (ZH 1/406 and BGR 500 Part 2 Chapter 2.36):
- The liquid emitters 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.

9.1 HIGH-PRESSURE HOSES

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.

DANGER

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

- → Ensure that the hose material is chemically resistant to the sprayed materials.
- → Ensure that the spray gun, threaded joints, and material 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

9.2 DECOMMISSIONING

When the equipment must be scrapped, please differentiate the disposal of the waste materials.
The following materials have been used:

- → Steel
- → Aluminum
- → Elastomers
- → Plastics
- → Carbide

The consumable materials (paints, adhesives, sealers, solvents) must be disposed of according to the valid specific standards.

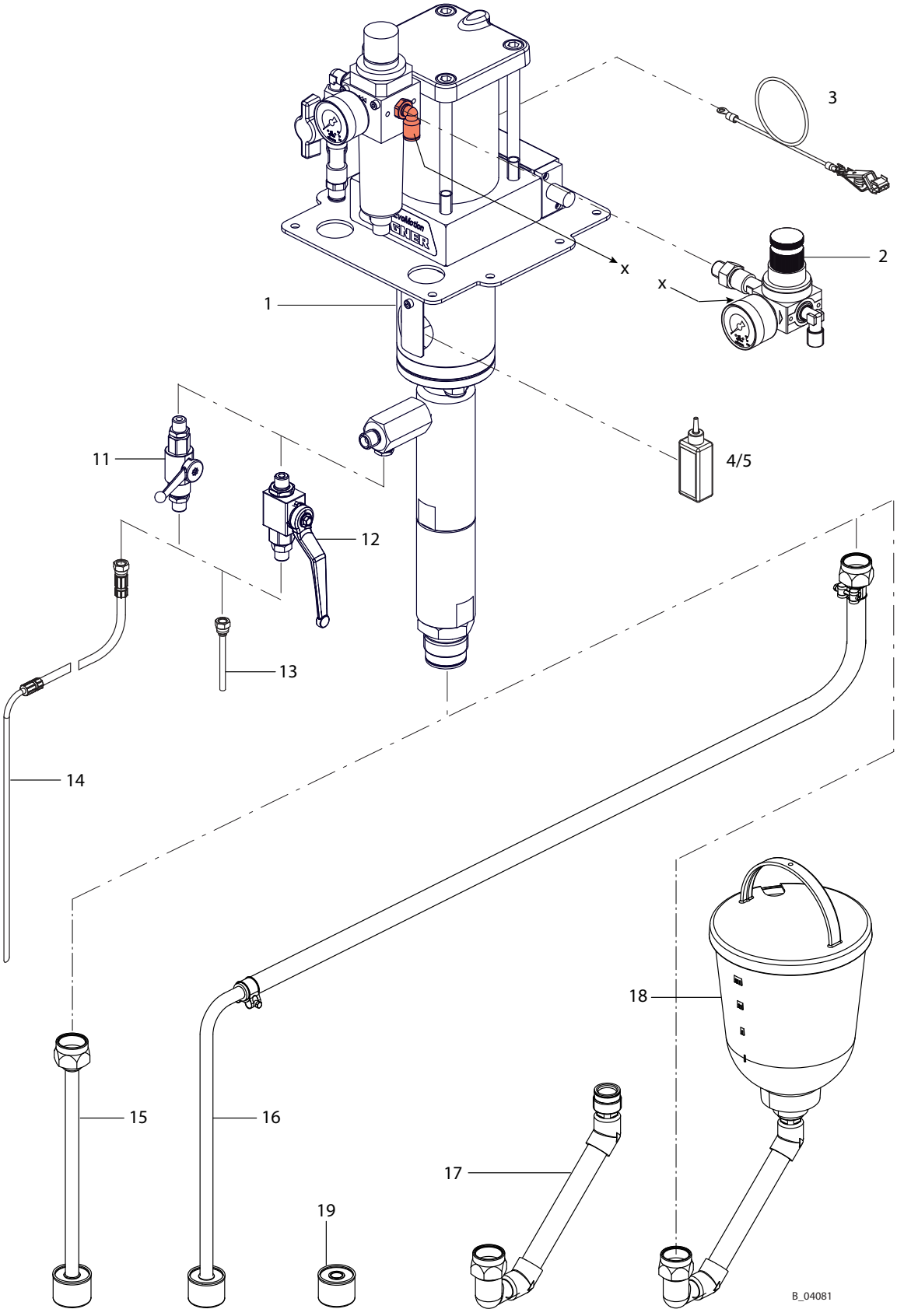
10 ACCESSORIES

Accessories			FineFinish 40-15	FineFinish 20-30
Pos	**K**	**Designation**	**Order No.**	**Order No.**
1		Pump PE/T	2329450	2329452
2	◆	AirCoat regulator set	T6145.00A	
3		Grounding cable, complete 3 m; 9.8 ft	236219	
4		Separating agent 250 ml	9992504	
5		Separating agent 500 ml	9992505	

Material outlet accessories			FineFinish 40-15	FineFinish 20-30
Pos	**K**	**Designation**	**Order No.**	
11	◆	Ball valve R1/4"-G1/4"-PN350-SSt	2334488	
12	◆	Ball valve R1/4"-G1/4"-PN350-CS	2334472	
13	◆	Return tube DN6-G1/4"-100mm-PA	2331752	
14	◆	Return hose DN6-PN310-G1/4"-PA	2329046	

Material inlet accessories			FineFinish 40-15	FineFinish 20-30
Pos	**K**	**Designation**	**Order No.**	
15		Suction pipe DN16-SSt, complete	2324158	
16	◆	Suction hose DN16-SSt, complete	2324110	
17		Suction elbow for top reservoir SSt	2323225	
18	◆	Top reservoir set, 5 l for piston pump	2332169	
19	◆	Suction filter DN16-18mesh-SSt	2323396	

◆ Wearing part


3
2
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11
4/5
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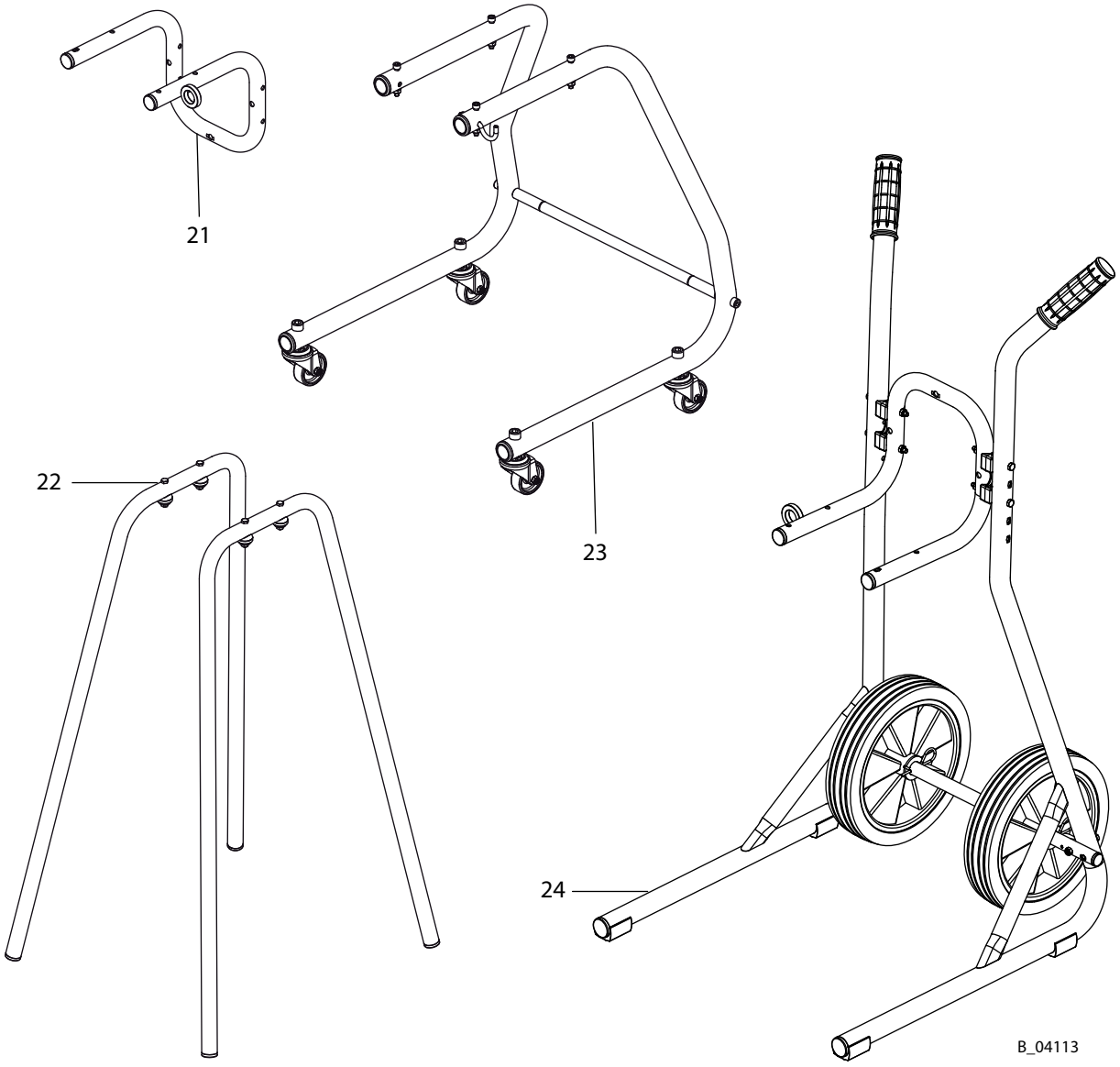
Trolley, rack and wall bracket accessories		FineFinish 40-15	FineFinish 20-30
Pos K	**Designation**	**Order No.**	
21	Wall mount 4", complete	2332143	
22	4-leg stand	2332374	
23	Trolley, 4 wheels	T6196.00	
24	Trolley 4", complete	2325901	



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 parts
Note: No liability is assumed for wearing parts.

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

⚠ WARNING

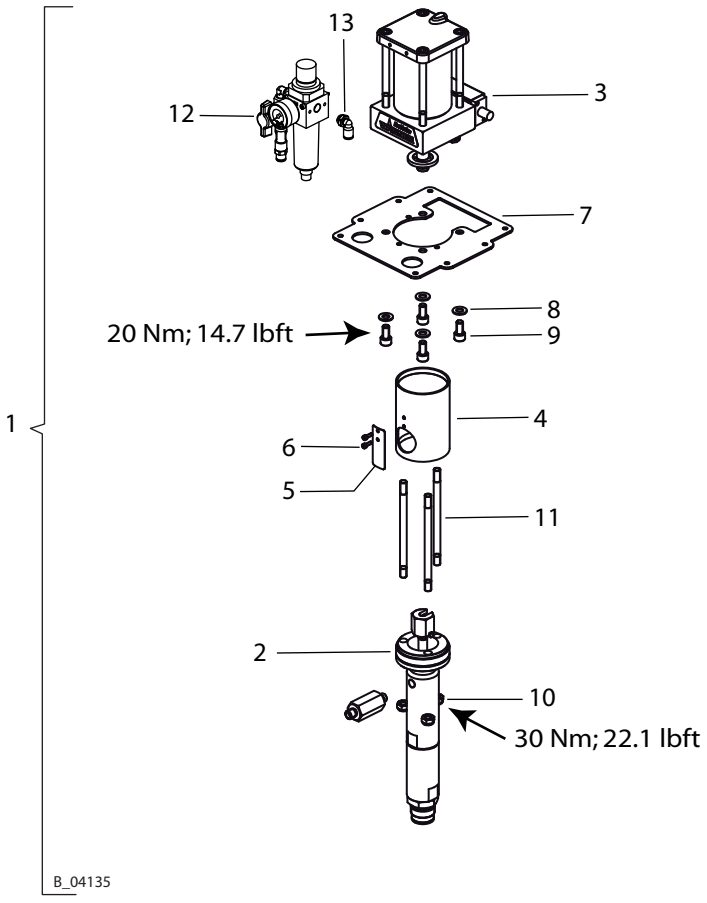
Incorrect maintenance/repair!
Risk of injury and equipment damage.

→ Have repairs and part replacements 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 OVERVIEW OF THE COMPONENTS

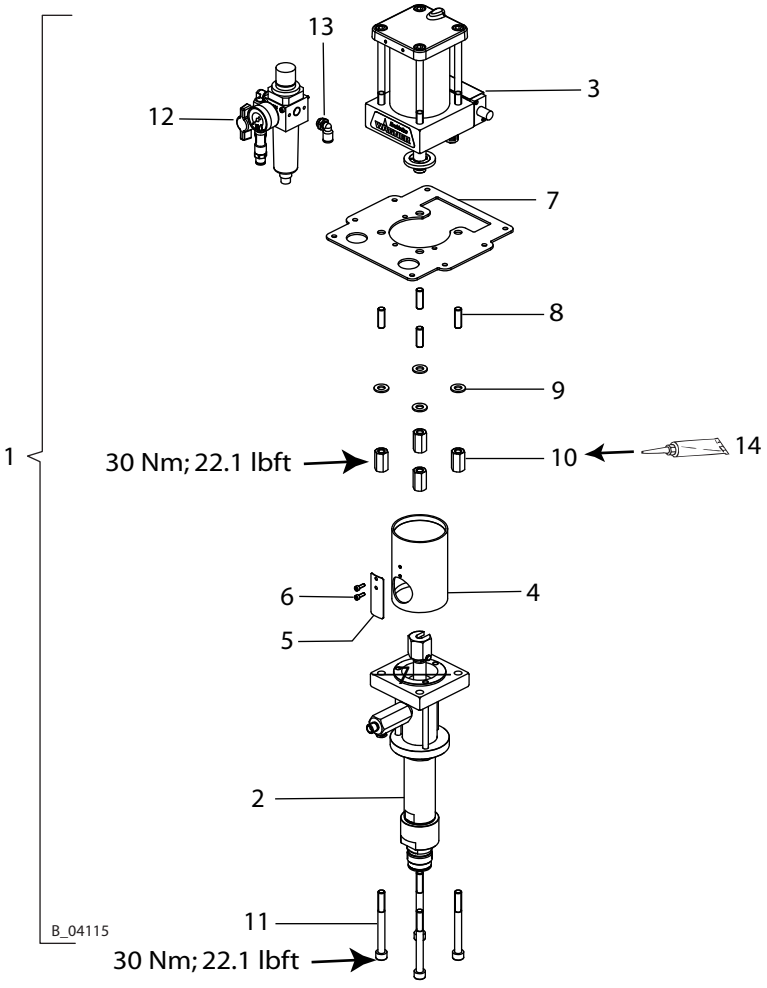
11.2.1 COMPONENTS FOR FINEFINISH 40-15

			FineFinish 40-15
Pos	**Designation**	**Stk**	**Order No.**
1	FineFinish 40-15 PE/T	1	2329450
2	Fluid section 15 PE/T EM	1	2329635
3	Air motor M80 EM	1	U3B08018060
4	D 25 X 160 Spacer	1	A359.71A
5	Safety fixture spacer	1	E516.71A
6	Hexagon socket head cap screw	2	9900353
7	Holder plate	1	2332394
8	Washer	4	9920106
9	Hexagon socket head cap screw	4	9900330
10	Hexagon nut with clamp	3	3055157
11	Tie rod	3	H115.62
12	Pump air regulator set	1	T6140.00A
13	Screwing in angle	1	9998253



11.2.2 COMPONENTS FOR FINEFINISH 20-30

			FineFinish 20-30
Pos	**Designation**	**Stk**	**Order No.**
1	FineFinish 20-30 PE/T	1	2329452
2	Fluid section 30 PE/T EM	1	2329639
3	Air motor M80 EM	1	U3B08018060
4	D 25 X 160 Spacer	1	A359.71A
5	Safety fixture spacer	1	E516.71A
6	Hexagon socket head cap screw	2	9900353
7	Holder plate	1	2332394
8	Threaded bolt	4	9901115
9	Washer	4	9920106
10	Hexagon extension nut	4	2332990
11	Hexagon socket head cap screw	4	9906024
12	Pump air regulator set	1	T6140.00
13	Screwing in angle	1	9998253
14	Loctite 222 50ml; 50cc	1	9992590



11.3 AIR MOTOR

⚠ WARNING

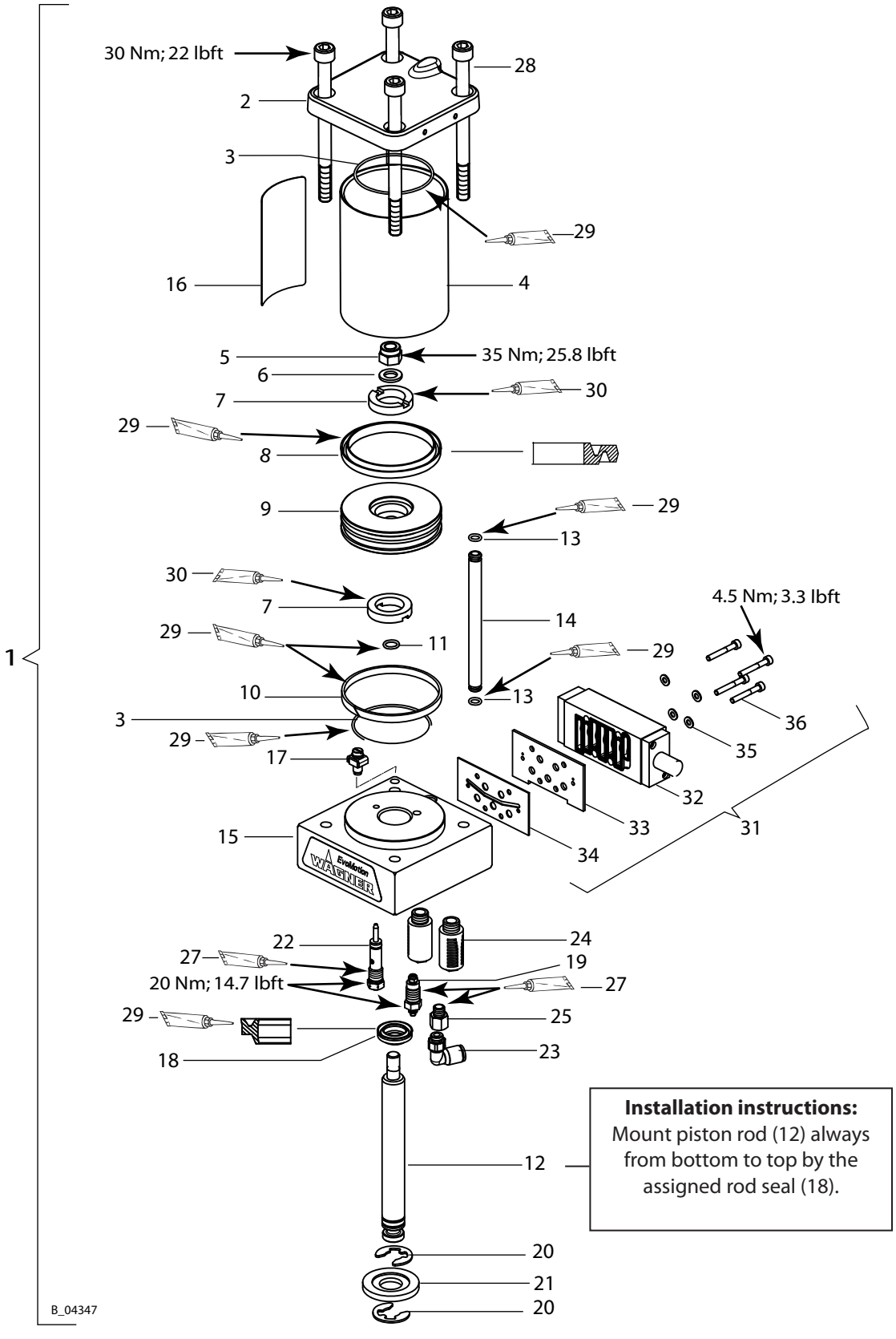
Incorrect maintenance/repair!
Risk of injury and equipment damage.

→ Have repairs and part replacements 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.

Air motor spare parts list EM M80

Pos	K	Designation	Stk	FineFinish 40-15	FineFinish 20-30
				Order No.	
1		Air motor EM M80	1	U3B08018060	
2		Motor flange, upper, M50 EM	1	F132.91C	
3	◆ ★	O-ring	2	L108.06	
4		Cylinder motor	1	D608.81	
5		Hexagon nut with clamp	1	3055157	
6		Washer	1	9920106	
7	◆ ★	Steamer	2	G903.06	
8	◆ ★	Gasket DE 80	1	L413.06	
9		Motor piston	1	A164.01	
10	◆ ★	Sliding ring	1	L802.08	
11	◆ ★	O-ring	1	L110.06	
12		Piston rod, M80 EM	1	D404.12	
13	◆ ★	O-ring	2	L109.06	
14		Air tube, M80 EM	1	A408.12	
15		Motor flange, complete M80 EM, at bottom	1	T616.00C	
16		Type plate	1	--	
17		Grounding, complete	1	367258	
18	◆ ★	Rod seal	1	L403.06	
19	◆ ★	Sensor below, M80	1	T703.00	
20		Lock washer for shaft	2	K606.02	
21		Washer	1	A160.01A	
22	◆ ★	Pilot valve	1	369290	
23		Threaded elbow fitting	1	9992757	
24	◆	Silencer	2	H505.07	
25		Reducing nipple	1	M432.00	

◆ = Wearing part
★ = Included in service set
● = Not part of the standard equipment but available as an accessory.



Installation instructions:
Mount piston rod (12) always from bottom to top by the assigned rod seal (18).

Air motor spare parts list EM M80				FineFinish 40-15	FineFinish 20-30
Pos	**K**	**Designation**	**Stk**	**Order No.**	
27		Loctite 542	1	9992831	
28		Hexagon socket head cap screw	4	9907241	
29		Mobilux EP 2 grease	1	9998808	
30		Loctite 480	1	9998157	
31	◆	Reversing valve ISO N/1 (consisting of items 32 to 36)	1	P498.00KNE	
32	◆	Reversing valve (spare parts list, see Chapter 11.3.1)	1	P498.00	
33		Valve plate	1	A818.71B	
34	◆	Valve sealing	1	G735.06AB	
35		Washer, A4.3	4	9920104	
36		Hexagon socket head cap screw	4	9900386	

	●	Service set EM Air motor M80	1	T910.00

◆ = Wearing part

★ = Included in service set

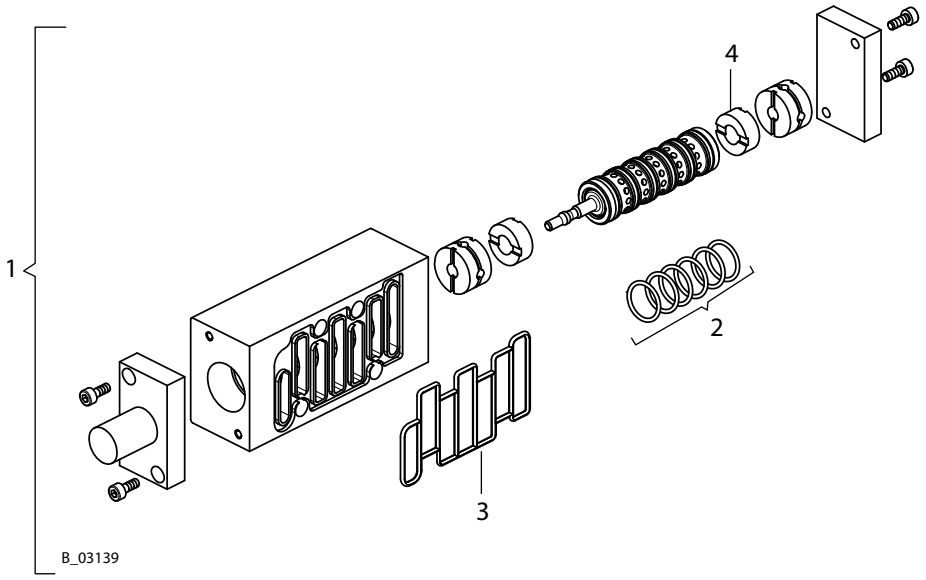
● = Not part of the standard equipment but available as an accessory.

⚠ WARNING

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

→ Have repairs and part replacements 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.

11.3.1 REVERSING VALVE

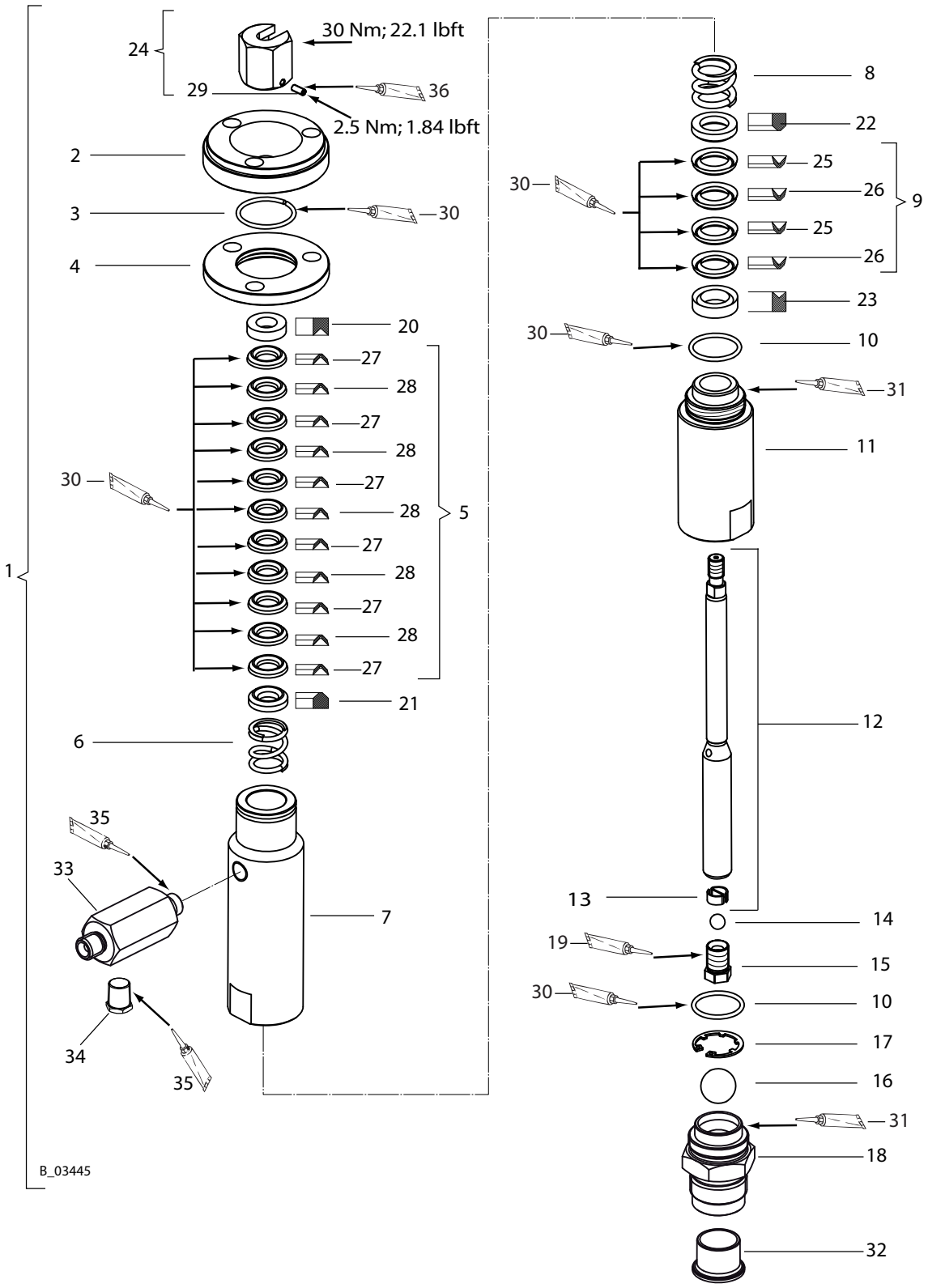


Spare parts list for the reversing valve				FineFinish 40-15	FineFinish 20-30
Pos	**K**	**Designation**	**Stk**	**Order No.**	
1	◆	Reversing valve	1	P498.00	
2	◆	O-ring	6	9971123	
3	◆	Reversing valve gasket	1	P521.00	
4	◆	Steamer	2	P520.00	

◆ = Wearing part

11.4 FLUID SECTIONS

11.4.1 FLUID SECTION 15



Spare parts list for fluid section 15				FineFinish 40-15
Pos	**K**	**Designation**	**Stk**	**Order No.**
1		Fluid section 15 SS PE/T EM	1	2329635
2		Connecting flange 15	1	A661.12
3		Snap ring	1	K617.03
4		Snap ring flange 15	1	A662.12
5	◆ ★	Packing PE/T 13/25	1	T9037.00E
6		Spring, upper	1	H204.03
7		Tube 15	1	A658.03
8		Spring	1	H203.03
9	◆ ★	Packing PE/T 18/29	1	T9038.00E
10	◆ ★	O-ring	2	L107.06
11		Cylinder 15	1	B534.03
12	◆	Piston 15 SS	1	T6157.00I
13		Support spring	1	A170.03
14	◆	Ball	1	K801.03
15	◆	Valve screw 15	1	A169.03
16	◆	Ball	1	K803.03
17	◆	Securing ring	1	K601.03
18	◆	Inlet housing 15	1	2323838
19	●	Loctite 542	1	9992831
20		Support ring, outside	1	A171.03
21		Support ring, inside	1	A172.03
22		Support ring, inside	1	A411.03
23		Support ring, outside	1	A410.03
24		Connector	1	T6158.00
25	◆ ★	Sealing collar T 18/29	2	G101.05
26	◆ ★	Sealing collar PE 18/29	2	G101.08E
27	◆ ★	Sealing collar T 13/25	6	G104.05
28	◆ ★	Sealing collar PE 13/25	5	G104.08E
29		Hexagon screw without shaft	1	9900136
30		Mobilux EP 2 grease	1	9998808
31	●	Anti-seize paste	1	9992609
32		Sealing sleeve	1	2329898
33		Fitting-DF-MM-R1/4"-1/4"NPS-PN350	1	B0461.03A
34		Hexagon plug	1	2323718
35		Loctite 270	1	9992528
36		Loctite 222	1	9992590

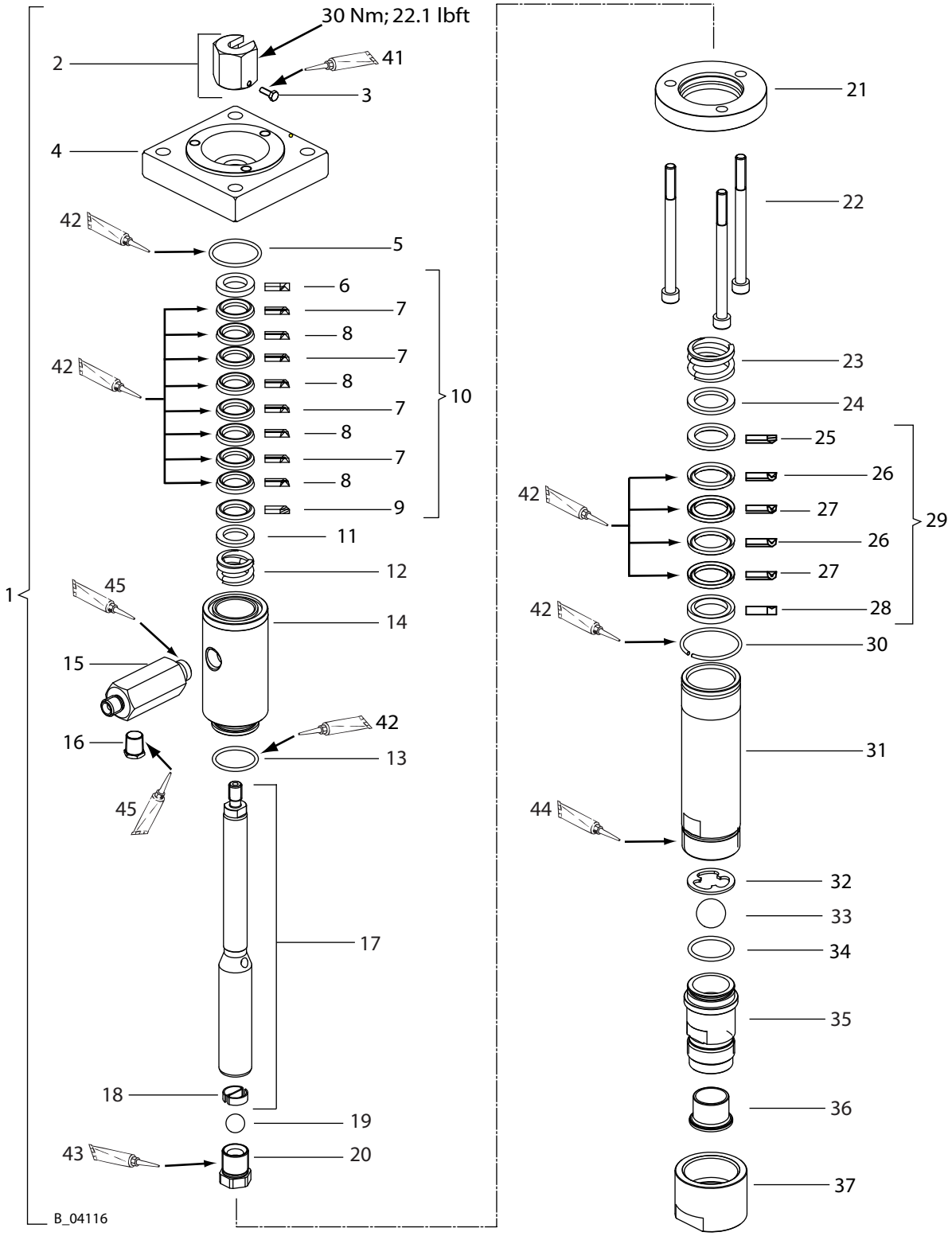
	●	Service set EM 15 PE/T	1	T9039.00E

◆ = Wearing part

★ = Included in service set

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

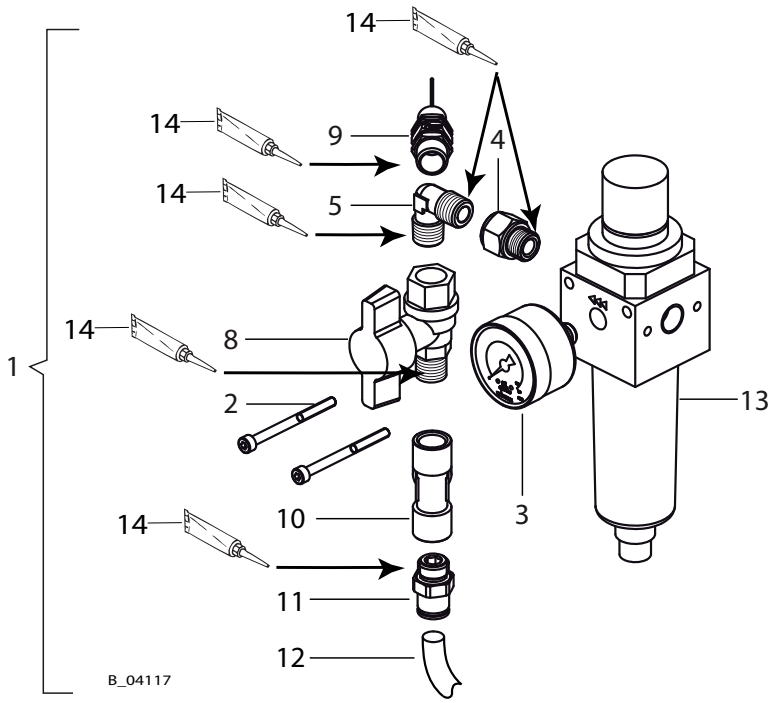
11.4.2 FLUID SECTION 30



Spare parts list for fluid section 30				FineFinish 20-30
Pos	K	Designation	Stk	Order No.
1		Fluid section 30 PE/T, complete	1	2329639
2		Connector	1	T6158.00
3		Hexagon screw without shaft	1	9900136
4		Connecting flange 30	1	B0388.62
5	◆ ★	O-ring	1	L112.06
6	◆ ★	Support ring, outside	1	G119.08
7	◆ ★	Sealing collar PE 18/29	4	G101.08E
8	◆ ★	Sealing collar T 18/29	4	G101.05
9	◆ ★	Support ring, inside	1	G120.08
10	◆ ●	Packing PE/T, complete 18/29	1	T920.00D
11		Support ring plate	1	A114.03
12	◆	Spring	1	H203.03
13	◆ ★	O-ring	2	L170.06
14		Tube 30	1	B0391.03
15		Fitting-DF-MM-R3/8"-1/4"NPS-PN350	1	B0461.03
16		Hexagon plug	1	2323718
17	◆	Piston 30	1	T6181.00
18		Support spring	1	A156.03
19	◆	Ball	1	K802.03
20	◆	Valve screw 30	1	A155.03
21		Lower pump flange	1	B0387.62
22		Hexagon socket head cap screw	3	9907087
23	◆	Pressure spring	1	H222.03
24		Ring	1	B0099.03
25	◆ ★	Support ring, inside	1	G185.05
26	◆ ★	Sealing collar T 25/36	2	G152.05
27	◆ ★	Sealing collar PE 25/36	2	G152.08E
28	◆ ★	Support ring, outside	1	G184.05
29	◆ ●	Packing PE/T, complete 25/36	1	T941.00G
30		Round wire snap ring for waves	1	K640.02
31		Cylinder 30	1	B0392.03
32		Ball stopper	1	A961.03B
33	◆	Ball	1	K803.03
34	◆ ★	O-ring	2	L170.06
35	◆	Inlet fitting	1	2323833
36		Sealing sleeve	1	2329898
37		Valve screw 30	1	B0389.03
41		Loctite 222	1	9992590
42		Mobilux EP 1 grease	1	9998008
43		Loctite 542	1	9992831
44		Anti-seize paste	1	9992609
45		Loctite 270	1	9992528
	●	Service set EM 20 PE/T	1	T940.00G

◆ = Wearing part
★ = Included in service set
● = Not part of the standard equipment but available as an accessory.

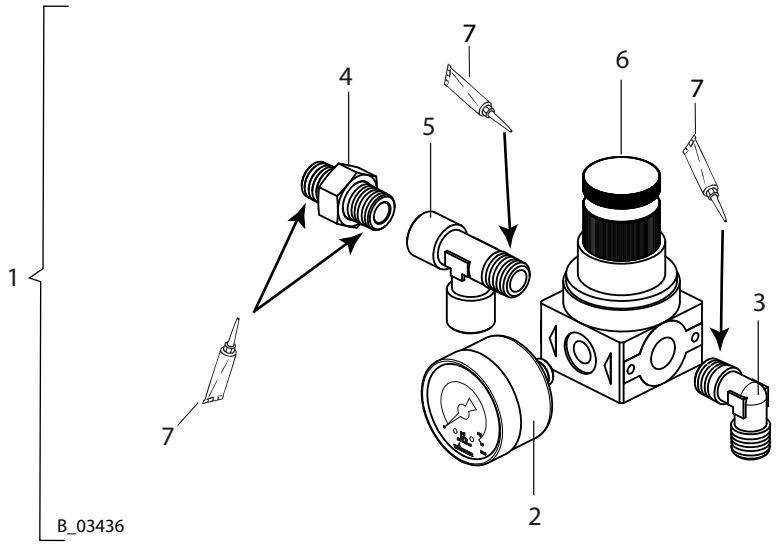
11.5 AIR REGULATOR SET



Spare parts list for air regulator set				FineFinish 40-15	FineFinish 20-30
Pos	**K**	**Designation**	**Stk**	**Order No.**	**Order No.**
1		Pump air regulator set	1	T6140.00A	T6140.00
2		Hexagon socket head cap screw	2	9906026	
3	◆	Pressure gage 0-1 MPa; 0-10 bar; 0-145 psi (d40)	1	9998677	
4		Reducer	1	9985682	
5		Screw-in connection's elbow	1	9998039	
8	◆	Ball valve, FM	1	M101.00	
9		Safety valve 1/4"	1	P484.00C1	P484.00C0
10		T-connection	1	M297.00	
11		Straight threaded fitting	1	9992743	
12		Hose, black AD8 x 1.25 (0.32 m; 1.05 ft long)	0.32 m	9982078	
13	◆	Filter regulator, CZ 1/4	1	P124.00M	
14		Loctite 542	1	9992831	

◆ = Wearing part

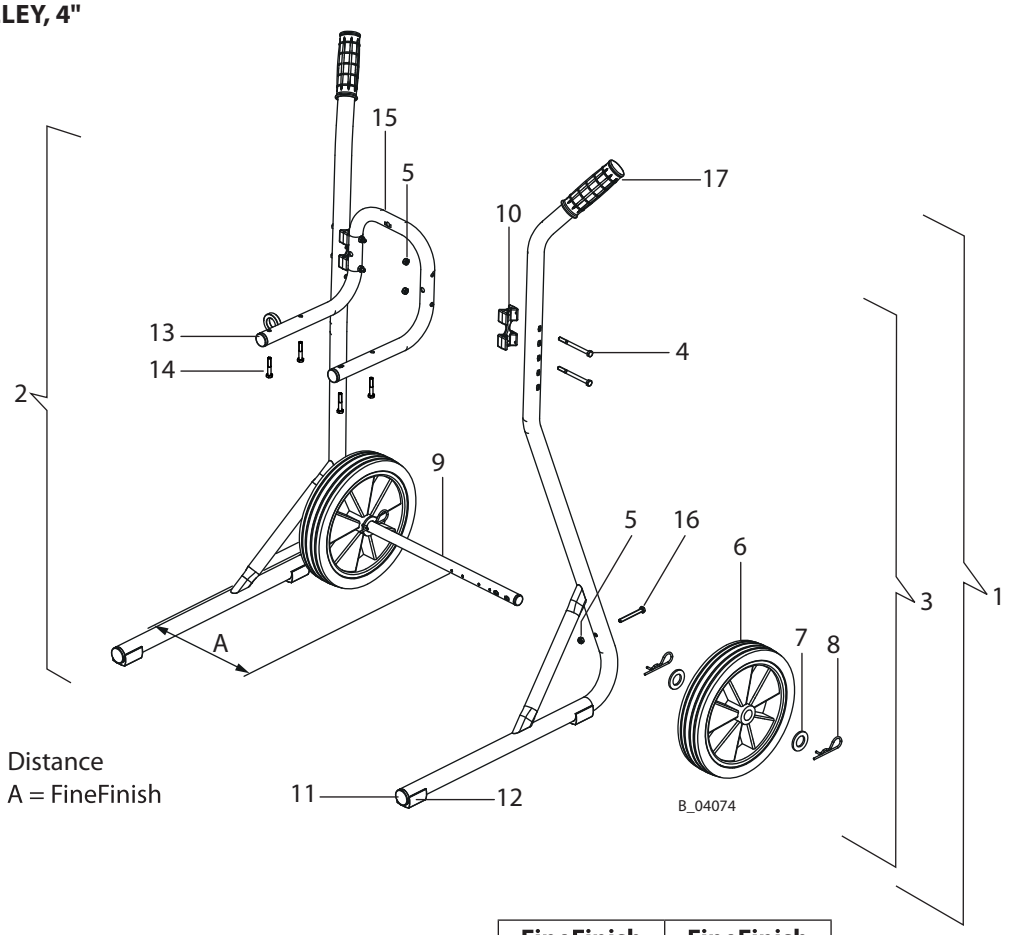
11.6 AIR REGULATOR SET FOR AIRCOAT AIR



Spare parts list for air regulator set for AirCoat Air				FineFinish 40-15	FineFinish 20-30
Pos	**K**	**Designation**	**Stk**	**Order No.**	
1		AirCoat regulator set	1	T6145.00A	
2	◆	Pressure gage 0-1 MPa; 0-10 bar; 0-145 psi (d40)	1	9998677	
3		Elbow with taper	1	9992129	
4		Detachable double nipple	1	9998719	
5		T-piece	1	9985694	
6	◆	Air pressure regulator, 1/4"	1	P123.00	
7		Loctite 270	1	9992528	

◆ = Wearing part

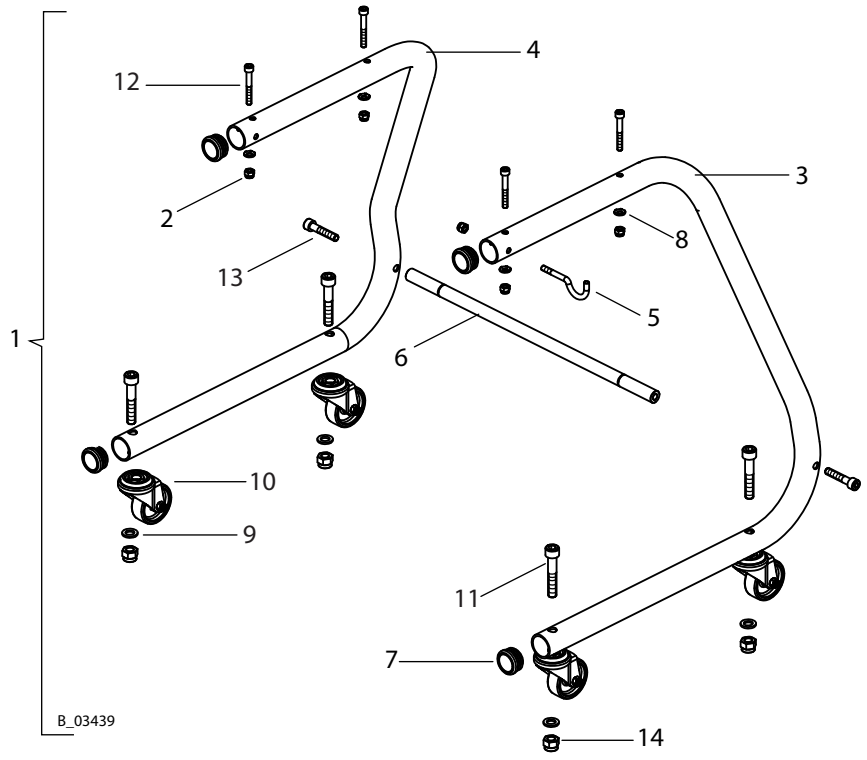
11.7 TROLLEY, 4"



Spare parts list for trolley, 4"				FineFinish 40-15	FineFinish 20-30
Pos	**K**	**Designation**	**Stk**	**Order No.**	
1		Trolley, complete	1	2325901	
2		Stand left 4" (welded)	1	--	
3		Stand right 4" (welded)	1	--	
4		Hexagon screw DIN931 M6x75	4	9907140	
5		Self-locking hexagon nut, M6	6	9910204	
6	◆	Wheel, D250	2	2304440	
7		Washer	4	340372	
8		Cotter pin	4	9995302	
9		Wheel axle 4"	1	--	
10	◆	Connecting part 4"	2	367943	
11		Tube plug, ribbed	2	--	
12		Saddle feet for round tubes	2	--	
13		Plug	2	--	
14		Hexagon screw	4	9900218	
15		Wall mount	1	2332143	
16		Hexagon screw without shaft M6x55	2	3061695	
17	◆	Handle	2	9998747	

◆ = Wearing parts

11.8 4-WHEEL TROLLEY



				FineFinish 40-15	FineFinish 20-30
Pos	**K**	**Designation**	**Stk**	**Order No.**	
1		Trolley, 4 wheels	1	T6196.00	
2		Hexagon nut with clamp	5	9910204	
3		Stand, right	1	E3107.92B	
4		Stand, left	1	E3107.92C	
5		Spray gun hook	1	H009.62	
6		Stand pin	1	H1156.62	
7		Plug	4	R204.07	
8		Contact washer, M08	4	3155404	
9		Washer	4	9920106	
10	◆	Wheel	4	R120.00F	
11		Hexagon socket head cap screw	4	9900311	
12		Hexagon socket head cap screw	4	9900389	
13		Hexagon socket head cap screw	2	9900309	
14		Hexagon nut with clamp	4	3055157	

◆ = Wearing part

12 3+2 YEARS GUARANTEE FOR PROFESSIONAL FINISHING

12.1 SCOPE OF GUARANTEE

All Wagner professional colour application devices (hereafter referred to as products) are carefully inspected, tested, and subject to strict checks under Wagner quality assurance. Wagner exclusively issues extended guarantees to commercial or professional users (hereafter referred to as "customer") who have purchased the product in an authorized specialist shop, and which relate to the products listed on the Internet at www.wagner-group.com/profi-guarantee.
The buyer's claim for liability for defects from the purchase agreement with the seller and statutory rights are not impaired by this guarantee.
We provide a guarantee in that we decide whether to replace or repair the product or individual parts, or take the device back and reimburse the purchase price. The costs for materials and working hours are our responsibility. Replaced products or parts become our property.

12.2 GUARANTEE PERIOD AND REGISTRATION

The guarantee period amounts to 36 months. For industrial use or equal wear, such as shift operations in particular, or in the event of rentals, it amounts to 12 months.
Systems driven by petrol or air are also guaranteed for a 12 month period.
The guarantee period begins with the day of delivery by the authorized specialist shop. The date on the original purchase document is authoritative.
For all products bought in authorized specialist shops from 2009-02-01 the guarantee period is extended to 24 months providing the buyer of these devices registers in accordance with the following conditions within 4 weeks of the day of delivery by the authorized specialist shop.
Registration can be completed on the Internet at www.wagner-group.com/profi-guarantee.
The guarantee certificate is valid as confirmation, as is the original purchase document that carries the date of the purchase. Registration is only possible if the buyer agrees to the data that is entered during registration being stored.
When services are carried out under guarantee the guarantee period for the product is neither extended nor renewed.
Once the guarantee period has expired, claims made against the guarantee or from the guarantee can no longer be enforced.

12.3 HANDLING

If defects can be seen in the materials, processing, or performance of the device during the guarantee period, guarantee claims must be made immediately, or at the latest within a period of 2 weeks.
The authorized specialist shop that delivered the device is entitled to accept guarantee claims. Guarantee claims may also be made to the service centers named in the operating manual. The product has to be sent without charge or presented together with the original purchase document that includes details of the purchase date and the name of the product. In order to claim for an extension to the guarantee, the guarantee certificate must be included.
The costs as well as the risk of loss or damage to the product in transit or by the center that accepts the guarantee claims or who delivers the repaired product, are the responsibility of the customer.

12.4 EXCLUSION OF GUARANTEE

Guarantee claims cannot be considered
- for parts that are subject to wear and tear due to use or other natural wear and tear, as well as defects in the product that are a result of natural wear and tear, or wear and tear due to use. This includes in particular cables, valves, packings, nozzles, cylinders, pistons, means-carrying housing components, filters, pipes, seals, rotors, stators, etc. Damage due to wear and tear that is caused in particular by sanded coating materials, such as dispersions, plasters, putties, adhesives, glazes, quartz foundation.
- in the event of errors in devices that are due to non-compliance with the operating instructions, unsuitable or unprofessional use, incorrect assembly and/or commissioning by the buyer or by a third party, utilization other than is intended, abnormal ambient conditions, unsuitable coating materials, the influence of chemical, electrochemical, or electrical agents, unsuitable operating conditions, operation with the incorrect mains voltage supply/frequency, overload, or defective servicing or care and/or cleaning.
- for errors in the device that have been caused by using accessory parts, additional components, or spare parts that are not original Wagner parts.
- for products to which modifications or additions have been carried out.
- for products where the serial number has been removed or is illegible.
- for products to which attempts at repairs have been carried out by unauthorized persons.
- for products with slight deviations from the target properties, which are negligible with regard to the value and usability of the device.
- for products that have been partially or fully taken apart.

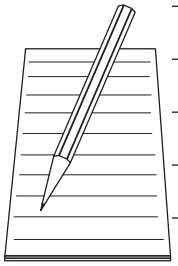
12.5 ADDITIONAL REGULATIONS

The above guarantees apply exclusively to products that have been bought from authorized specialist shops in the EU, CIS, Australia and are used within the reference country.

If an inspection finds damage not covered by the present guarantee, repairs are carried out at the expense of the buyer.
The above regulations manage the legal relationship to us concludingly. Additional claims, in particular for damages and losses of any type, which occur as a result of the product or its use, are excluded from the product liability act except with regard to the area of application.
Claims for liability for defects to the specialist trader remain unaffected.
German law applies to this guarantee. The contractual language is German. In the event that the meaning of the German and a foreign text of this guarantee deviate from one another, the meaning of the German text has priority.

J. Wagner GmbH
Division Professional Finishing
Otto Lilienthal Strasse 18
88677 Markdorf
Germany

Wagner professional guarantee
(As of 2009-02-01)



12.6 CE DECLARATION OF CONFORMITY

Herewith we declare that the supplied version of pneumatic pumps and their spraypacks

FineFinish	
40-15	20-30

comply with the following guidelines:

2006/42/EC	94/9/EC

Applied standards, in particular:

DIN EN ISO 12100: 2011	DIN EN ISO 4414: 2011	DIN EN 12621: 2011	DIN EN 13463-5: 2011
DIN EN 809: 2012	DIN EN ISO 13732-1: 2008	DIN EN 1127-1: 2011	DIN EN ISO 80079-34: 2012
DIN EN ISO 4413: 2011	DIN EN 14462: 2010	DIN EN 13463-1: 2009	

Applied national technical standards and specifications, in particular:

BGR 500 Part 2 Chapter 2.29 and Chapter 2.36	TRBS 2153

Identification:

CE Ex II 2G IIB c T3 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: 2312813

12.7 REFERENCE TO 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 Materials
c) BGR 104 Explosion protection rules
d) TRBS 2153 Avoiding ignition risks
e) BGR 180 Equipment for cleaning work pieces with solvents
f) ZH 1/406 Guidelines for liquid ejection devices
g) BGI 740 Painting rooms and equipment
h) Betr.Sich.V. Plant Safety Ordinance

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

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