



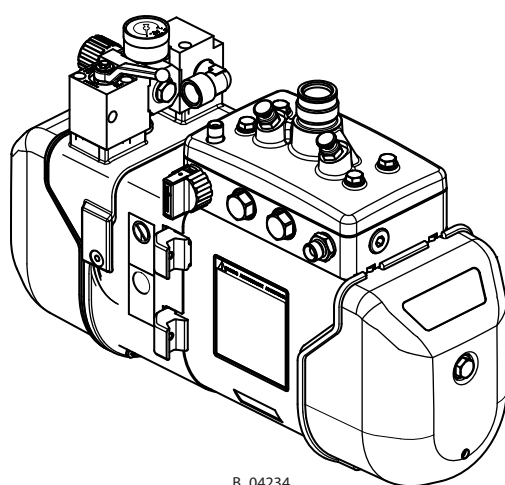
Translation of the Original Operating Manual

Cobra 40-10

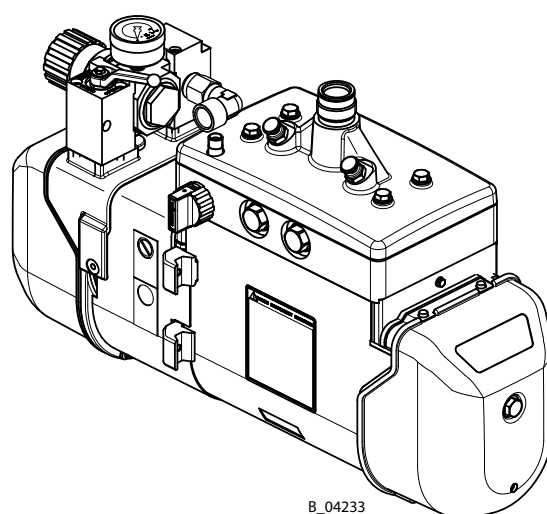
Cobra 40-25

Version 07/2014

High-pressure Double Diaphragm Pumps



B_04234



B_04233



II 2G IIB c X

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1 ABOUT THIS MANUAL

1.1 PREFACE

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

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

The device may only be operated by trained staff and in compliance with this operating manual. Operating and service staff should be instructed according to the safety instructions.

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

1.2 WARNINGS, NOTICES, AND SYMBOLS IN THIS OPERATING MANUAL

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

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

	⚠ DANGER
	This notice warns you of a hazard! Possible consequences of not observing the warning instructions. The signal word indicates the hazard level. → The measures for preventing the danger and its consequences.

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

	⚠ WARNING
	This notice warns you of a hazard! Possible consequences of not observing the warning instructions. The signal word indicates the hazard level. → The measures for preventing the danger and its consequences.

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

	⚠ CAUTION
	This notice warns you of a hazard! Possible consequences of not observing the warning instructions. The signal word indicates the hazard level. → The measures for preventing the danger and its consequences.

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

NOTICE
This notice warns you of a hazard! Possible consequences of not observing the warning instructions. The signal word indicates the hazard level. → The measures for preventing the danger and its consequences.

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	2340850	English	2340851
French	2340852	Italian	2340853
Spanish	2340854	Russian	2345830
Japanese	2346196		

Additional languages on request or at: www.wagner-group.com

1.4 ABBREVIATIONS IN THE TEXT

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

1.5 TERMINOLOGY FOR THE PURPOSE OF THIS MANUAL

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

2 CORRECT USE

2.1 DEVICE TYPES

Double diaphragm pump and spray pack:

Cobra 40-10
Cobra 40-25

2.2 TYPE OF USE

The device is suitable for processing liquid materials like paints and lacquers in accordance with the classification into explosion classes IIA or IIB.

2.3 USE IN POTENTIALLY EXPLOSIVE AREAS

The double diaphragm pump can be employed in explosion hazard areas (Zone 1).



2.4 SAFETY PARAMETERS

WAGNER accepts no liability for any damage arising from non-intended use.

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



The double diaphragm pump may only be operated under the following conditions:

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

2.5 PROCESSIBLE WORKING MATERIALS

→ Fluid products such as paints and lacquers.

Application	Cobra 40-10	Cobra 40-25
Water-dilutable products	↗	↗
Solvent-based lacquers and paints	↗	↗
Two-component coating products	↗	↗
Emulsions	↗	↗
UV lacquers	↗	↗
Primers	→	↗
Epoxy and polyurethane lacquers, phenolic lacquers	↗	↗
Liquid plastics	→	→
Wax-based underside protection	↗	↗
Shear-sensitive lacquers	↗	↗

Legend

↗ recommended

→ limited suitability

↘ less suitable

NOTICE

Abrasive working materials and pigments!

Greater wear of parts carrying the product.

- Use the application-oriented model (flow rate/cycle, product, valves, etc.) as indicated in Chapter 5.4.2.
- Check if the fluids and solvents used are compatible with the pump construction materials as indicated in Chapter 5.4.1.

2.5.1 RECOMMENDED APPLICATION AREAS

Application	Cobra 40-10	Cobra 40-25
Furniture industry	↗	↗
Kitchen manufacturers	↗	↗
Joinery	↗	↗
Window factories	→	↗
Steel-processing industry	→	→
Construction of vehicles	↗	↗
Shipbuilding	↘	↘

Legend

↗ recommended

→ limited suitability

↘ less suitable

2.6 REASONABLY FORESEEABLE MISUSE

The following is prohibited:

- coating work pieces which are not grounded,
- unauthorized conversions and modifications to the double diaphragm pump,
- processing dry or similar coating products, and
- using defective components, spare parts, or accessories other than those described in Chapter 13 of this operating manual.

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

- use of powder as coating product and
- incorrectly set values for processing.

Wagner double diaphragm 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 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 which are hazardous to health	Observe working and operating manuals	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 potentially explosive areas.



CE	Ex	II 2G IIB c 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
X:		Special Notes (see Chapter 3.2)

3.2 IDENTIFICATION X

X The maximum surface temperature corresponds to the permissible product temperature. This and the permissible ambient temperature can be found in the "Technical Data" chapter.

Maximum surface temperature

→ The maximum surface temperature of the pump depends on the operating conditions (heated product) and not on the device (frictional heat).

Ignition temperature of the coating product

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

Ambient temperature

→ The permissible ambient temperature is: +10 °C to +60 °C; +50 °C to 140 °F.

Medium supporting atomizing

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

Safe handling of WAGNER spray devices

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

In an explosive atmosphere:

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



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.

**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, paying special attention to the presence of air in the pumped fluid, which may be caused by damaged diaphragms.

→ Avoid operating the pump with damaged diaphragms.

3.3 TYPE PLATES**Example for Cobra 40-10**

</

B_05038

- 1 Pump type
- 2 Max. product pressure
- 3 Pump ratio
- 4 Delivery rate
- 5 Max. air pressure
- 6 Max. temp. material/ fluid
- 7 Serial No.
- 8 Read instruction manual before use

Example for Cobra 40-25



J. WAGNER AG
CH-9450 ALTSTÄTTEN
MADE IN SWITZERLAND



II 2G IIB c X

1

Pumpentyp/ Pump type/ Type de pompe

40-25

2

Max. Materialdruck/ Fluid pressure/ Pression fluid

25 MPa

3

Übersetzungsverhältnis/ Ratio/ Rapport

40:1

4

Fördermenge DH/ Delivery DS/ Débit CD

25 ccm

5

Max. Luftdruck/ Air pressure/ Pression d'air

0.63 MPa

6

Max. Temp. Material/ Fluid

80°C

7

Serie Nr. / Serie No. / N. serie

SOM3001

8

Vor Gebrauch Betriebsanleitung beachten / Check manual before use!

B_05039

4 GENERAL SAFETY INSTRUCTIONS

4.1 SAFETY INSTRUCTIONS FOR THE OPERATOR

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



4.1.1 ELECTRICAL EQUIPMENT

Electrical devices and equipment

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

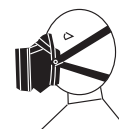


4.1.2 STAFF QUALIFICATIONS

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

4.1.3 SAFE WORK ENVIRONMENT

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



4.2 SAFETY INSTRUCTIONS FOR STAFF

- Always follow the information in 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 flushing agents:

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



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

- Note the paint or flushing agent that you have been using.
 - Consult a doctor immediately.
- Avoid risk of injury from recoil forces:
- Ensure that you have firm footing when operating the spray gun.
 - Only hold the spray gun briefly in a position.

4.2.2 GROUNDING THE DEVICE

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

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



4.2.3 PRODUCT HOSES

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



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

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

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

4.2.4 CLEANING AND RINSING

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

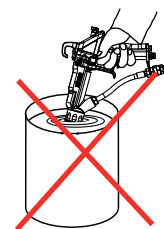
An explosive gas/air mixture forms in closed tanks.

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

External cleaning

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

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



4.2.5 HANDLING HAZARDOUS LIQUIDS, LACQUERS AND PAINTS

- When preparing or working with lacquer and when cleaning the device, follow the working instructions of the manufacturer of the lacquers, solvents and cleaning agents being used.
- Take the specified protective measures; in particular, make sure that you wear safety goggles, protective clothing, and gloves, as well as skin 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 $> 43\text{ }^{\circ}\text{C}$; $109.4\text{ }^{\circ}\text{F}$:
 - Mark the device with a warning label "Warning – hot surface".

**Order No.**

9998910 Instruction label

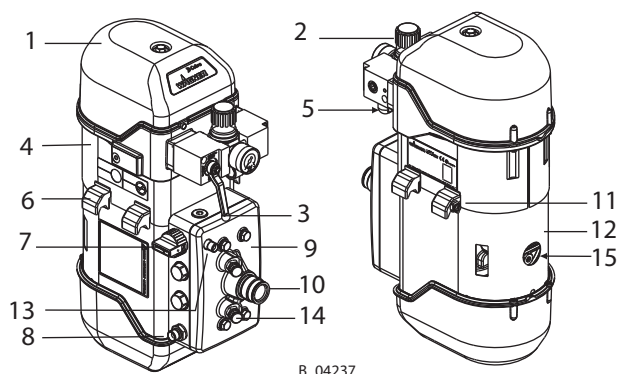
9998911 Protection label

Note: Order the two labels together.

5 DESCRIPTION

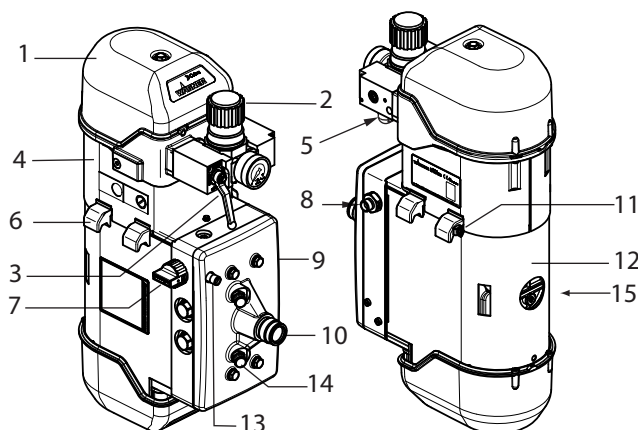
5.1 DESIGN

Cobra 40-10



B_04237

Cobra 40-25



B_04238

- 1 Control housing with integrated silencer
- 2 Air pressure regulator
- 3 Ball valve
- 4 Air motor
- 5 Compressed air inlet
- 6 Mounting flange
- 7 Relief valve
- 8 Product outlet
- 9 Fluid section
- 10 Product inlet
- 11 Grounding connection
- 12 Pressure stage casing
- 13 Return socket
- 14 Valve depressor
- 15 Exhaust air cap

5.2 MODE OF OPERATION

5.2.1 GENERAL INFORMATION

The double diaphragm pump is driven with compressed air. This compressed air moves the air piston in the air motor (4), and consequently the piston rod in the pressure stage (9), up and down. At the end of each stroke the compressed air is redirected by a reversing valve and the control piston. The up-and-down movement of the 2 diaphragms within the fluid section is produced by hydraulic oil, which is moved by the piston in the pressure stage. With every stroke of the piston rod, working material is sucked in and delivered to the spray gun at the same time.

5.2.2 AIR MOTOR (4)

The air motor with its pneumatic reverse (1) does not require pneumatic oil.

The compressed air is fed to the motor via the air pressure regulator (2) and the ball valve (3).

5.2.3 PROTECTIVE AND MONITORING EQUIPMENT

The air motor is fitted with a safety valve. The safety valve 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.

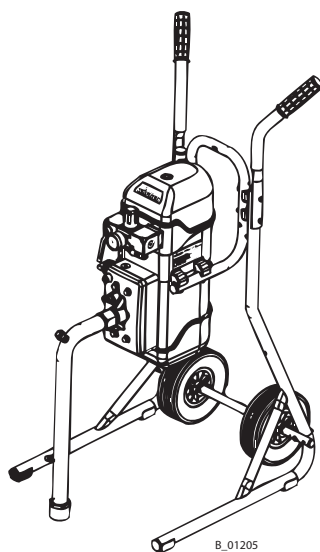
	! WARNING Overpressure! Risk of injury from bursting components. → Never change the safety valve setting.
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5.2.4 FLUID SECTION (9)

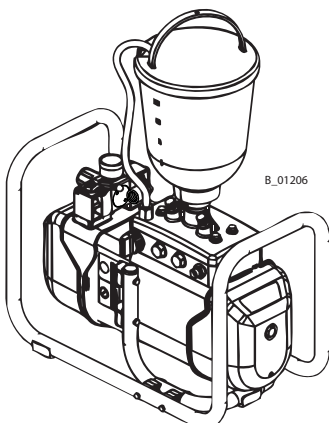
The fluid section has been designed as a double diaphragm pump with exchangeable inlet and outlet valves. Change between "spraying mode" and "circulation mode" using the relief valve (7).

5.2.5 POSITIONING

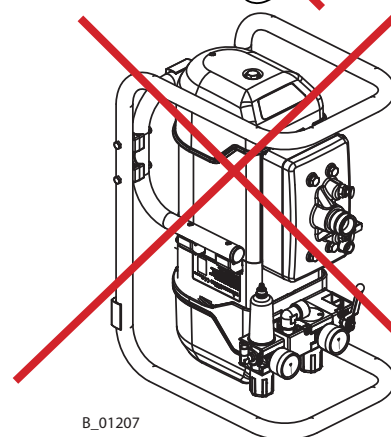
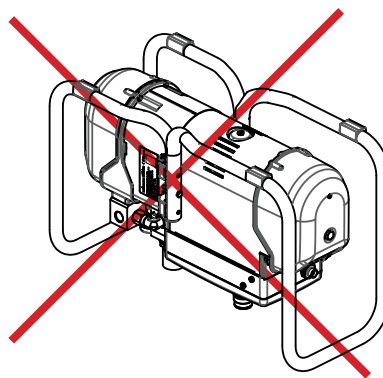
The Cobra pump may only be operated in a horizontal or vertical position as shown in the diagrams. Overhead operation is not permitted.



Vertical positioning



Horizontal positioning



Overhead positioning

NOTICE

Overhead operation or storage (air motor with pressure regulator below)

Air could get into the hydraulic circuit, causing a malfunction.

- Avoid overhead operation or storage at all costs.
- Venting, see chapter 8.2.6 Oil change

5.3 SCOPE OF DELIVERY

Order No.	Stk	Designation
2329519	1	Diaphragm pump Cobra 40-10 consisting of: Fluid section, air motor, connection elements
2329521	1	Frame-mounted diaphragm pump Cobra 40-10 consisting of: Fluid section, air motor, connection elements
2329523	1	Diaphragm pump Cobra 40-25 consisting of: Fluid section, air motor, connection elements
2329525	1	Frame-mounted diaphragm pump Cobra 40-25 consisting of: Fluid section, air motor, connection elements
The standard equipment includes:		
322981	1	Sign
236219	1	Grounding cable, complete
341434	1	Double open-end wrench
see Chapter 15.3	1	Declaration of Conformity
2340850	1	Operating manual, German
see Chapter 1.3	1	Operating manual in the local language

The delivery note shows the exact scope of delivery.

Accessories: see Chapter 13.

5.4 DATA

5.4.1 MATERIALS OF PAINT-WETTED PARTS

Inlet housing	Consital® (aluminum alloy)
Fluid section	Consital® (aluminum alloy)
Valve balls	Stainless steel
Valve seats/valve cone	Carbide
Diaphragms	Resistant PA
Valve fitting	1.4104

5.4.2 TECHNICAL DATA

Description	Devices	Cobra 40-10	Cobra 40-25
Pump ratio		40:1	40:1
Volume flow per double stroke (DH)	cm ³	10	25
	cu inch	0.6	1.5
Maximum operating overpressure	MPa	25	25
	bar	250	250
	psi	3626	3626
Maximum possible strokes in operation	DH/min	200	200
Minimum/maximum air inlet pressure	MPa	0.25-0.6	0.25-0.6
	bar	2.5-6	2.5-6
	psi	36.3-87	36.3-87

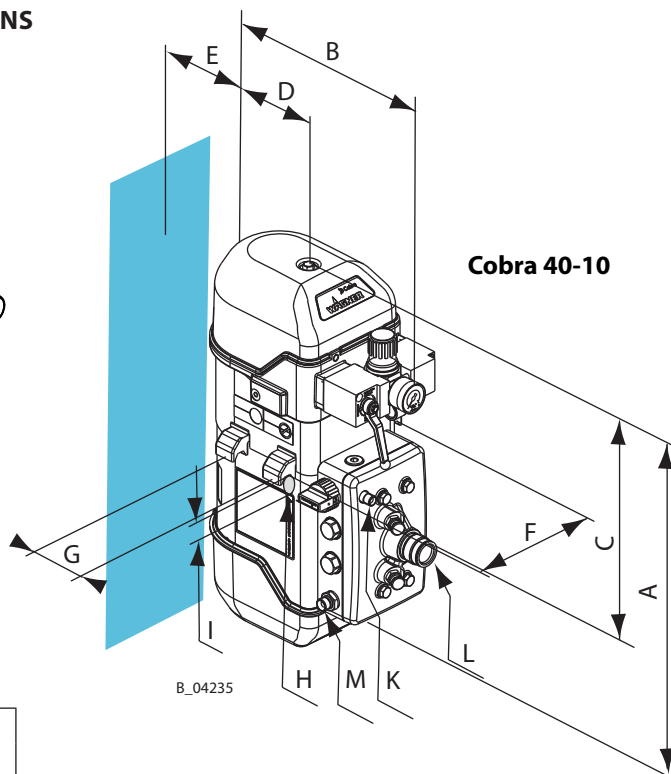
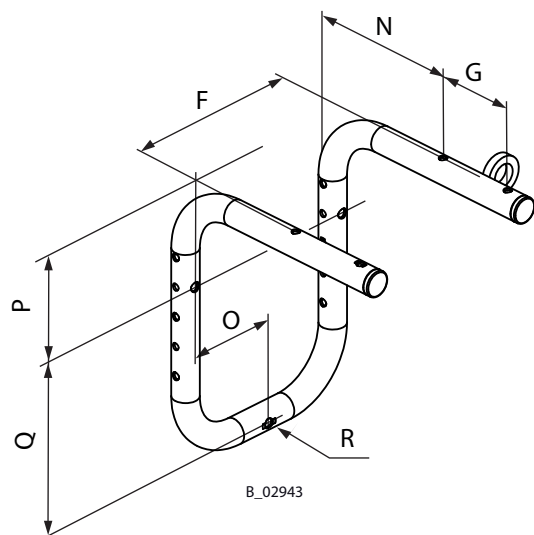
Description	Devices	Cobra 40-10	Cobra 40-25
Ø Air inlet (inside thread)	inch	G 1/2	G 1/2
Minimum Ø of the compressed air supply line	mm	13	19
	inch	0.51	0.75
Air consumption at 0.6 MPa; 6 bar; 87 psi per double stroke	NL	3.5	8.3
Sound pressure level at maximum permissible air pressure*	dB(A)	74	76
Sound pressure level at 0.45 MPa; 4.5 bar; 65.27 psi air pressure*	dB(A)	72	74
Sound pressure level at 0.3 MPa; 3 bar; 43.5 psi air pressure*	dB(A)	69	71
Air motor piston diameter	mm	80	100
	inch	3.15	4
Product inlet (outside thread)	mm	M36x2	M36x2
Product outlet connection (inside thread)	inch	G 3/8"	G 3/8"
Product outlet (outside thread)	inch	G 3/8"	G 3/8"
Weight	kg; lb	19; 41.9	33; 72.8
Product pH value	pH	3.5-9	3.5-9
Maximum product pressure at pump inlet	MPa	2	2
	bar	20	20
	psi	290	290
Product temperature	°C	10 – 80	10 – 80
	°F	50 – 176	50 – 176
Ambient temperature	°C	10 – 60	10 – 60
	°F	50 – 140	50 – 140
Allowable inclination for operation	∠°	±10	±10
Hydraulic oil filling amount (approximate)	L	0.11	0.13
	cu inch	6.71	7.93

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

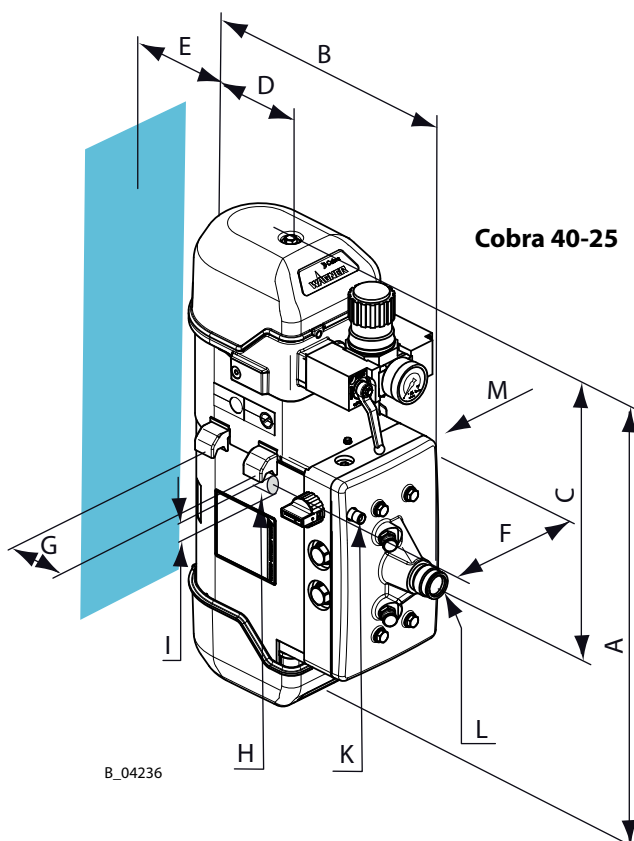
Reference measurements have been made by SUVA (Swiss Accident Insurance Institute).

	 WARNING
	Outgoing air containing oil! Risk of poisoning if inhaled.
	→ Provide water-free and oil-free compressed air

Quality standard 7.5.4 according to ISO 8573.1: 2010	
7:	Solid particles with mass concentration of 5-10 mg/m ³
5:	Air humidity: pressure dew point ≤ +7 °C
4:	Oil content: ≤ 5 mg/m ³

5.4.3 MEASUREMENTS AND CONNECTIONS

Measurement	Cobra 40-10 mm; inch	Cobra 40-25 mm; inch
A	505; 19.88	605; 23.82
B	313; 12.32	379; 14.92
C	322; 12.68	373; 14.69
D	134; 5.28	134; 5.28
E	55; 2.16	55; 2.16
F	182; 7.16	182; 7.16
G	80; 3.15	80; 3.15
H	M6	M6
I	ø25; ø0.98	ø25; ø0.98
K	G1/4"	G1/4"
L	M36x2	M36x2
M	G 3/8"A	G 3/8"A
N	149; 5.87	149; 5.87
O	91; 3.58	91; 3.58
P	107; 4.21	107; 4.21
Q	175; 6.89	175; 6.89
R	ø7; ø0.28	ø7; ø0.28



5.4.4 VOLUME FLOW

Wagner AL nozzles			Volume flow in l/min.*		
ø inch	ø mm	Spray angle	at 7 MPa 70 bar 1015 psi	at 10 MPa 100 bar 1450 psi	at 15 MPa 150 bar 2175 psi
0.007	0.18	40°	0.1650	0.2000	0.2400
0.009	0.23	20-30-40-50-60°	0.2060	0.2500	0.3090
0.011	0.28	10-20-30-40-50-60°	0.2950	0.3450	0.4260
0.013	0.33	10-20-30-40-50-60-80°	0.4530	0.5280	0.6600
0.015	0.38	10-20-30-40-50-60-80°	0.5770	0.6720	0.8130
0.017	0.43	20-30-40-50-60-70°	0.7310	0.7860	1.0640
0.019	0.48	20-30-40-50-60-70-80°	0.9260	1.0920	1.3700
0.021	0.53	20-40-50-60-80°	1.1430	1.3600	1.6900
0.023	0.58	20-40-50-60-70-80°	1.3700	1.5900	2.0100
0.025	0.64	20-40-50-60-80°	1.6200	1.9100	2.4000
0.027	0.69	20-40-50-60-80°	1.8300	2.1300	2.6800
0.029	0.75	60°	2.1900	2.5100	3.1700
0.031	0.79	20-40-50-60°	2.4000	2.7700	3.4900
0.035	0.90	20-40-50-60°	3.2200	3.7400	4.6900
0.043	1.10	20-50°	5.0700	6.0400	7.4600
0.052	1.30	50°	5.1200	6.5000	7.5200

Cobra 40-10

Cobra 40-25

* Volume flow refers to water.

Maximum ranges for continuous operation at 200 DH/min.**5.4.5 PERFORMANCE DIAGRAMS**

Example

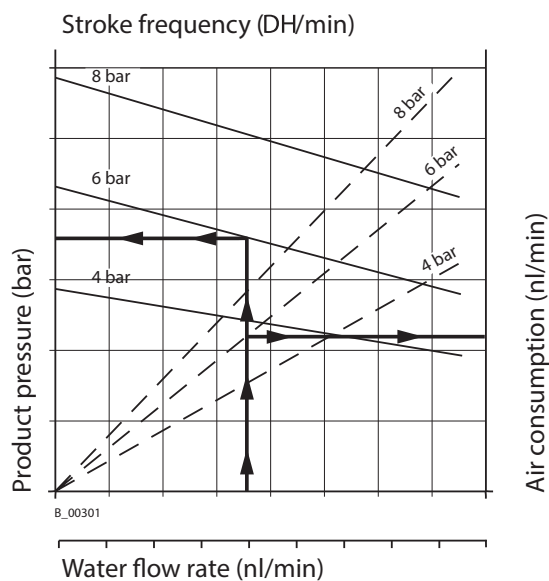
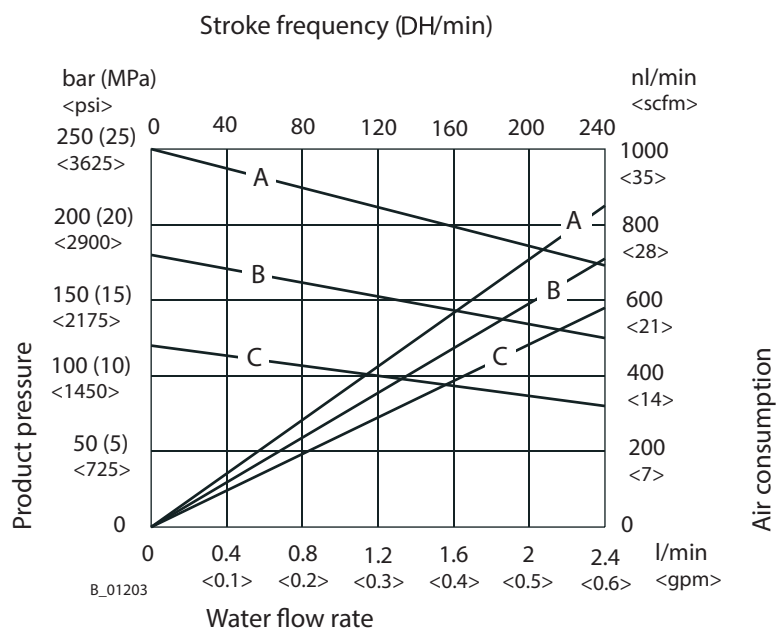
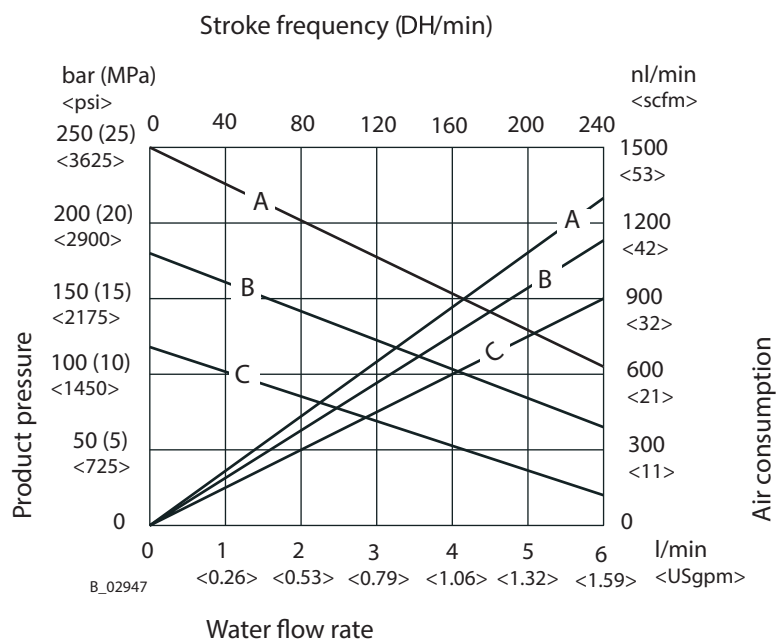


Diagram for Cobra 40-10

A = 6 bar (0.6 MPa; 87 psi) air pressure
 B = 4.5 bar (0.45 MPa; 65 psi) air pressure
 C = 3 bar (0.3 MPa; 44 psi) air pressure

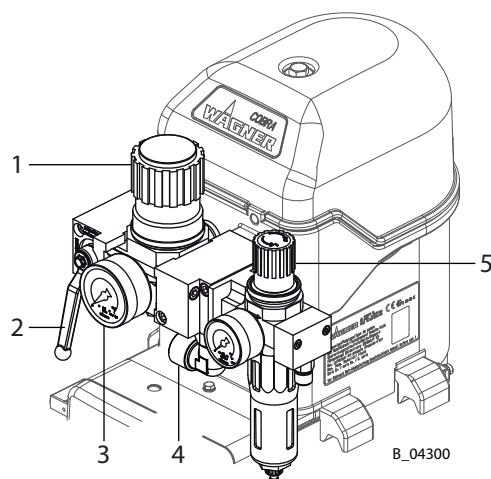
Diagram for Cobra 40-25

A = 6 bar (0.6 MPa; 87 psi) air pressure
 B = 4.5 bar (0.45 MPa; 65 psi) air pressure
 C = 3 bar (0.3 MPa; 44 psi) air pressure

5.5 PRESSURE REGULATOR UNIT FOR COBRA

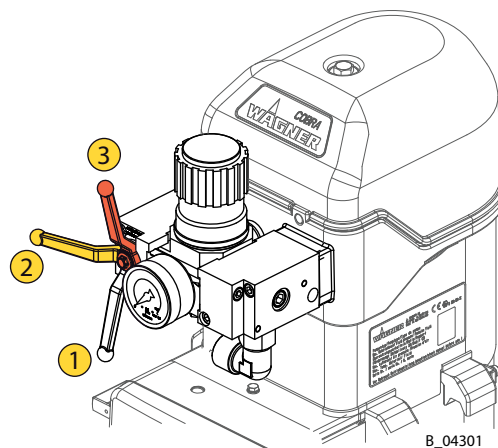
- 1 Pressure regulator
- 2 Ball valve
- 3 Pressure gauge
- 4 Compressed air inlet
- 5 AirCoat filter regulator Cobra (accessories)

The AirCoat filter regulator must be mounted vertically in all installation positions for the diaphragm pump (see assembly manual for Filter Regulator, order number 2328614).



Positions of the ball valve

- 1 **Open:** working position
- 2 **Closed:** The air motor can still be under pressure.
- 3 **Vent:** Operating pressure in the air motor is vented (control pressure is still present).



6 ASSEMBLY AND COMMISSIONING

6.1 TRAINING ASSEMBLY/COMMISSIONING STAFF

	 WARNING Incorrect installation/operation! Risk of injury and damage to the device. → The assembly and commissioning staff must have the technical skills to safely undertake commissioning. → When assembling, commissioning and carrying out all work, read and follow the operating manuals and safety regulations for the additionally required system components.
---	--

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

6.2 STORAGE CONDITIONS

Until the point of assembly, the device must be stored in a dry location, free of vibrations and with a minimum amount of dust. The device must be stored in enclosed rooms.

The air temperature at the storage location must be between -20 °C and +60 °C (-4 °F and +140 °F).

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

6.3 INSTALLATION CONDITIONS

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

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

6.4 TRANSPORTATION

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

6.5 ASSEMBLY AND INSTALLATION

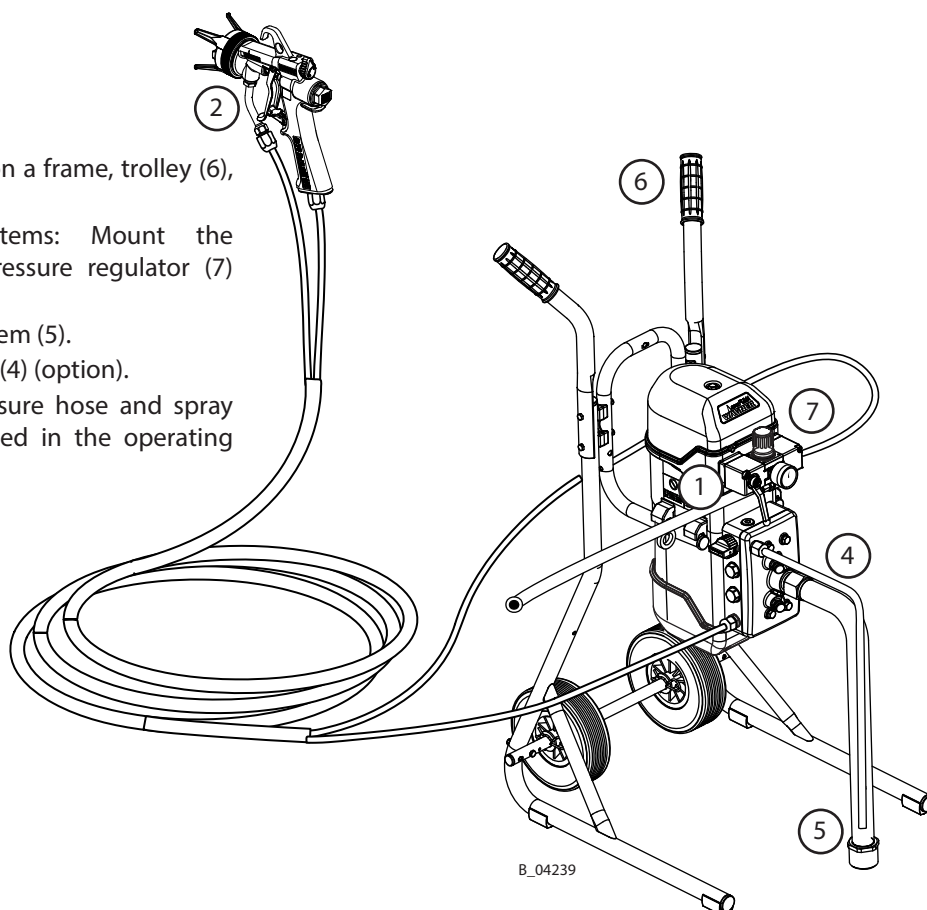
Note:

This pump can be used as part of a spraying system for Airless or AirCoat applications. The components can be found in the accessories list, provided that the system was not obtained as a spray pack.

The nozzles must be selected according to the gun instructions.

Procedure:

- 1 Mount the pump on a frame, trolley (6), or wall mount.
- 2 For AirCoat systems: Mount the additional filter pressure regulator (7) (option).
- 3 Mount suction system (5).
- 4 Mount return hose (4) (option).
- 5 Connect high-pressure hose and spray gun (2) as described in the operating manual.



WARNING

Inclined ground!

Risk of accidents if the device rolls away/falls.

- Position the trolley with the piston pump horizontally.
- If the surface is inclined, position the feet of the trolley towards the gradient.
- Secure the trolley.

6.5.1 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 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.
---	--

6.5.2 AIR SUPPLY

You must ensure that only dry, clean atomizing air is used in the spray gun. Dirt and moisture in the atomizing air worsens the spraying quality and spraying pattern.

	 WARNING Hose connections Risk of injury and damage to the device. → Do not exchange hose connections of product hose and air hose.
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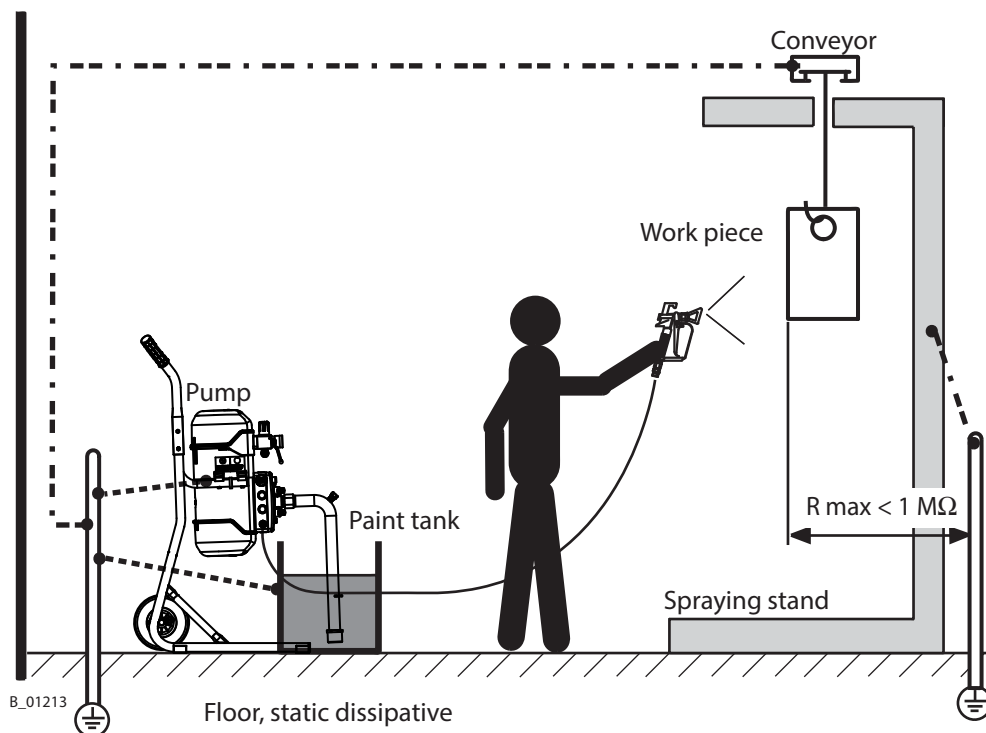
6.5.3 PRODUCT SUPPLY

	 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.
---	--

6.6 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.

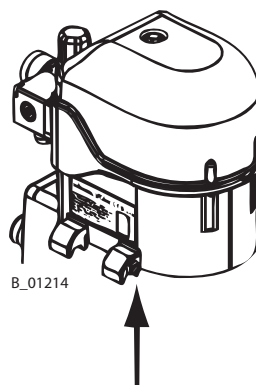
Grounding scheme (example)

Cable cross sections

Pump	4 mm ² ; AWG11
Paint tank	6 mm ² ; AWG10
Conveyor	16 mm ² ; AWG5
Booth	16 mm ² ; AWG5
Spraying stand	16 mm ² ; AWG5

Procedure:

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

**6.7 SAFETY CHECKS**

→ Carry out safety checks in accordance with Chapter 8.2.3.

Before every start-up, the following points should be observed:

- Secure gun with safety clip.
- 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:

- The pressure should be released from the pump and high-pressure hose with gun.
- The gun should be secured with the safety clip.
- The air supply should be interrupted.

Pressure tightness test

→ For pressure tightness control of the entire installation, the flushing agent product pressure is slowly increased step by step until the product pressure of the pump indicated on the type plate is reached.

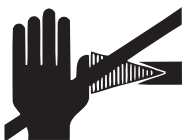
	! WARNING Overpressure! Risk of injury from bursting components. → The operating pressure must not exceed the value shown on the type plate.
--	---

6.8 COMMISSIONING

6.8.1 SAFETY INSTRUCTIONS

Every time before starting up, the following points should be observed as laid down in 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 cleaning agent or working medium. → Do not spray the device empty after cleaning.

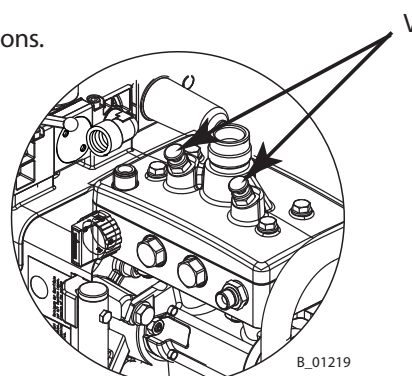
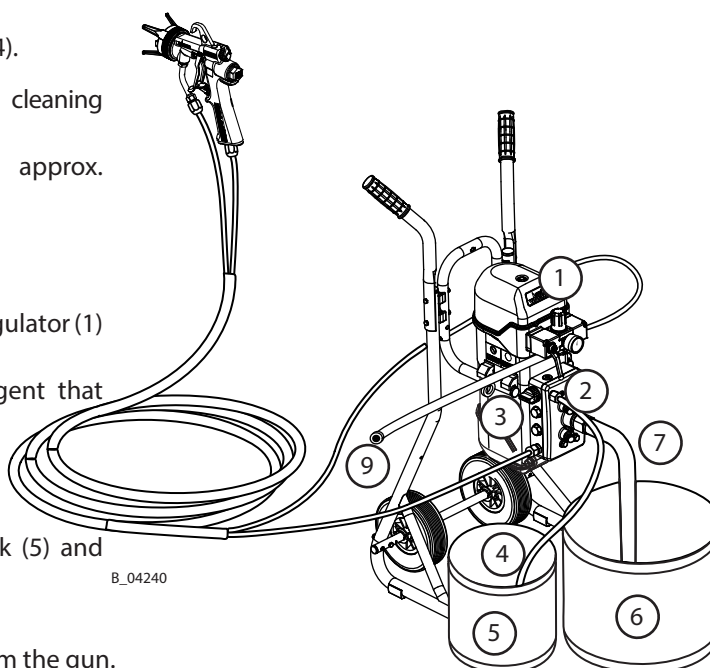
6.8.2 PREPARATION FOR COMMISSIONING**NOTICE****Impurities in the spraying system!**

Clogging of the spray gun

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

6.8.3 BASIC FLUSHING

- 1 Place empty tank (5) under return tube (4).
- 2 Place suction hose (7) in a tank with cleaning agent (6).
- 3 Adjust the pressure regulator (1) to approx. 0.05 MPa; 0.5 bar; 7.25 psi.
- 4 Open relief valve (3).
- 5 Slowly open the ball valve (2).
- 6 Adjust the air pressure on the pressure regulator (1) so that the pump runs smoothly.
- 7 Rinse the system until the cleaning agent that flows into the tank (5) is clean.
- 8 Close ball valve (2).
- 9 Reverse the relief valve (3).
- 10 Point the gun, without nozzle, into tank (5) and open it.
- 11 Slowly open the ball valve (2).
- 12 Flush until clean flushing agent flows from the gun.
- 13 Close ball valve (2).
- 14 When there is no pressure remaining in the system, close the gun.
- 15 Secure the gun.
- 16 Dispose of the contents of the tank (5) according to the local regulations.

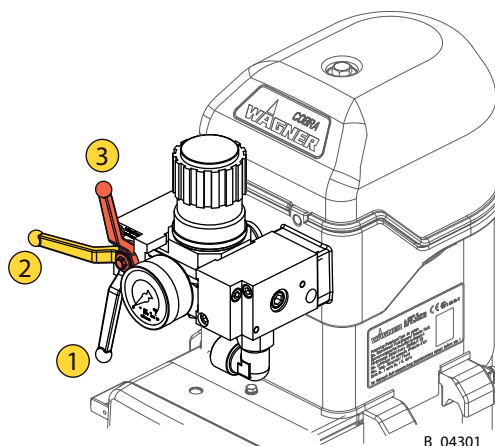
**Note:**

During the flushing procedure, briefly press both valve depressors (V).

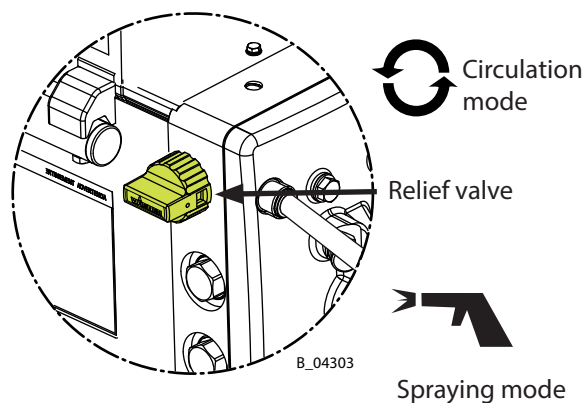
6.8.4 FILLING WITH WORKING MATERIAL

Positions of the ball valve

- 1 **Open:** working position
- 2 **Closed:** The air motor can still be under pressure.
- 3 **Vent:** Operating pressure in the air motor is vented (control pressure is still present).



- 1 Place suction hose (7) and return tube (4) into the tank with the working material (6).
- 2 Adjust the pressure regulator (1) to approx. 0.05 MPa; 0.5 bar; 7.25 psi.
- 3 Open relief 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 Close ball valve (2) as soon as pure working material starts coming from the return tube (4).
- 7 Set relief valve (3) to "spray".
- 8 Point the gun, without nozzle, into tank (5) and open it.
- 9 Slowly open the ball valve (2).
- 10 Close ball valve (2) as soon as pure working material starts coming from the gun.
- 11 When there is no pressure remaining in the system, close the gun.
- 12 Secure the gun.



7 OPERATION

7.1 TRAINING THE OPERATING STAFF

	 WARNING
	Incorrect operation! Risk of injury and damage to the device. → The operating staff must be qualified and fit to operate the entire system. → The operating staff must be familiar with the potential risks associated with improper behavior as well as the necessary protective devices and measures. → Before work commences, the operating staff must receive appropriate system training.

7.2 SAFETY INSTRUCTIONS

→ Observe safety instructions in Chapter 4.

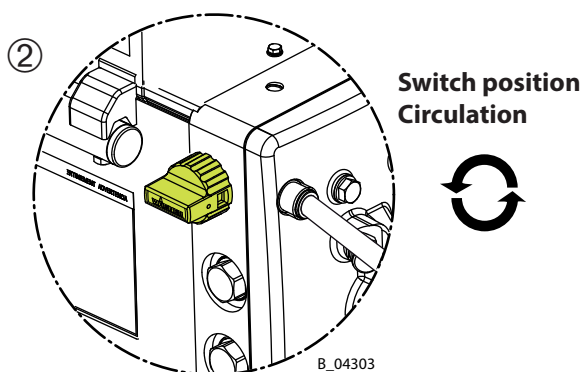
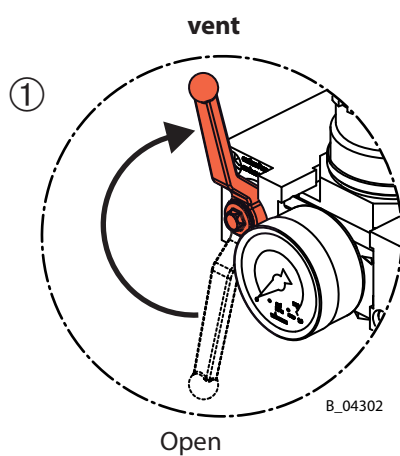
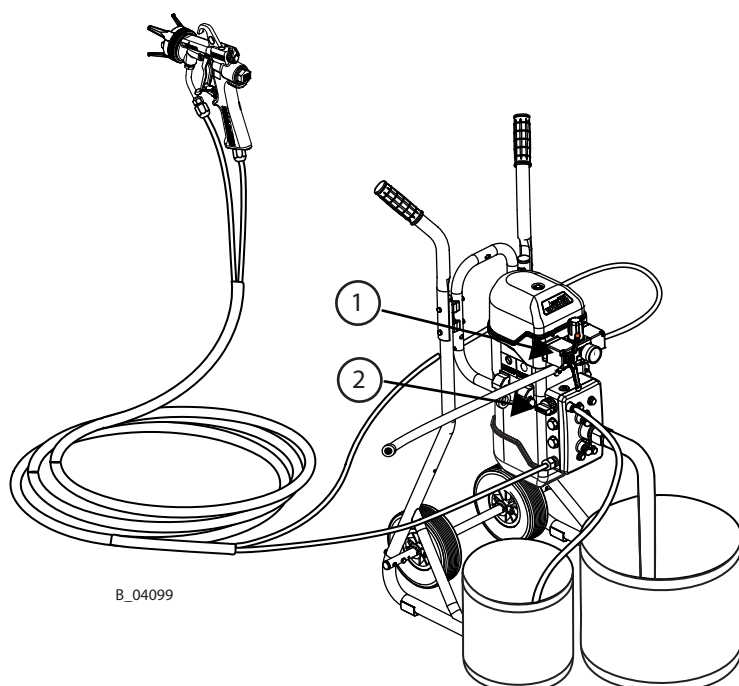
	 WARNING
	Incorrect operation! Risk of injury and damage to the device. → If contact with solvent-based paints or cleaning agents causes skin irritation, appropriate precautionary measures must be taken, e.g., wearing protective clothing. → The footwear worn by operating staff must comply with EN ISO 20344. The measured insulation resistance must not exceed 100 megohms. → The protective clothing, including gloves, must comply with EN ISO 1149-5. The measured insulation resistance must not exceed 100 megohms.

	 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 unit. → Secure the spray gun against actuation. → In the event of functional faults: remedy the fault as described in the "Troubleshooting" chapter.

7.3 EMERGENCY DEACTIVATION

EMERGENCY STOP

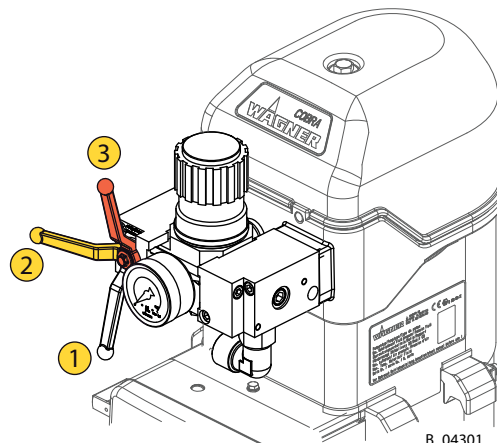
In the event of unforeseen occurrences, the ball valve (1) should be **vented** immediately and the relief valve (2) opened.



7.4 WORK

Positions of the ball valve

- 1 **Open:** working position
- 2 **Closed:** The air motor can still be under pressure.
- 3 **Vent:** Operating pressure in the air motor is vented (control pressure is still present).



- 1 Secure gun and place nozzle in the gun.
- 2 Slowly open the ball valve.
- 3 Set the required working pressure on the pressure regulator.
- 4 Optimize the spraying results as laid down in the gun instructions.
- 5 Start work process.

Note: Depending on the function, the pump may continue running for 1 - 6 DH/min. after the spray gun is closed.

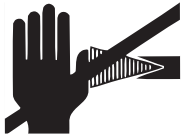
7.5 PRESSURE RELIEF/WORK INTERRUPTION

7.5.1 PRESSURE RELIEF/WORK INTERRUPTION

The pressure must always be relieved when:

- the spraying tasks are finished,
- servicing the system,
- carrying out cleaning tasks on the system,
- moving the system to another location,
- something needs to be checked on the system or
- the nozzle is removed from the gun.

→ Observe general safety instructions in Chapter 4.

	! 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. → Wear the appropriate protective clothing, gloves, eyewear and respiratory protection.
---	--

Process for relieving pressure

- 1 Close gun.
- 2 Close ball valve.
- 3 Vent air motor.
- 4 Release the system by opening the gun.
- 5 Close and secure gun.

If the system has been used with 2K products:

NOTICE Hardened working material in the spraying system when 2K product 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.
--

8 CLEANING AND MAINTENANCE

8.1 CLEANING

8.1.1 CLEANING STAFF

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

The following hazards may arise during cleaning work:

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

8.1.2 SAFETY INSTRUCTIONS

	 WARNING
	Brittle filter pressure regulator! The tank on the filter pressure regulator becomes brittle through contact with solvents and can burst. Flying parts can cause injury. → Do not clean the tank on the filter pressure regulator with solvent.

	 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 cleaning agent or working medium. → Do not spray the device empty after cleaning.

**DANGER****Incorrect maintenance/repair!**

Danger to life and damage to the device.

- 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:
 - Switch off the energy/compressed air supply.
 - Relieve the pressure from the spray gun and device.
 - Secure the spray gun to prevent actuation.
- Observe the operating manual and service manuals at all times when carrying out work.

→ Observe safety instructions in Chapter 4.

8.1.3 CLEANING AND FLUSHING DEVICE**Note:**

The device should be cleaned for maintenance purposes, etc. Ensure that no remaining product dries on and sticks to the device.

Procedure:

- 1 Carry out work interruption -> Chapter 7.5.
- 2 Carry out the basic flushing -> Chapter 6.8.3.
- 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.
- 6 Put the whole system back together.
- 7 Fill the system with cleaning agent according to Chapter 6.8.4 "Filling with Working Material".

8.1.4 LONG-TERM STORAGE

If storing the system for a prolonged period of time, thorough cleaning and corrosion protection are necessary. Replace the water or solvent in the material pump with a suitable preserving oil and fill the separating agent cup with separating agent.

Procedure:

- 1 Carry out points 1 to 7 in Chapter 8.1.3 "Flushing and Cleaning Device".
- 2 Flushing with preserving fluid according to Chapter 6.8.3.

8.2 MAINTENANCE

8.2.1 MAINTENANCE STAFF

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

The following hazards may arise during maintenance work:

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

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

8.2.2 SAFETY INSTRUCTIONS

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

Prior to maintenance

- Flush and clean the system. → Chapter 8.1.3.

After maintenance

- Carry out a safety check in accordance with Chapter 8.2.3.
- Put the system into operation and check for leaks as described in Chapter 6.7.
- Carry out a function test, if required, in accordance with Chapter 11.

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

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



DANGER

Incorrect maintenance/repair!

Danger to life and damage to the device.

- 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:
 - Switch off the energy/compressed air supply.
 - Relieve the pressure from the spray gun and device.
 - Secure the spray gun to prevent actuation.
- Observe the operating manual and service manuals at all times when carrying out work.

8.2.3 SAFETY CHECKS

WAGNER recommends having all spraying devices checked annually by a technical expert (e.g., WAGNER service technician) for safety reasons.

8.2.3.1 GROUNDING CHECK

Every day

Before starting work, carry out a visual check to ensure that the earthing connection is present in the device and in all relevant components.

8.2.3.2 HIGH-PRESSURE FILTER

Check and clean the high-pressure filter every day or as required.

8.2.3.3 PRODUCT HOSES, TUBES AND COUPLINGS

	 DANGER
	Bursting hose, bursting threaded joints! Danger to life from injection of product and from flying parts. → Ensure that the hose material is chemically resistant to the sprayed products and the used flushing agents. → Ensure that the spray gun, threaded joints, and product hose between the device and the spray gun are suitable for the generated pressure. → Ensure that the following information can be seen on the hose: - Manufacturer - Permissible operating pressure - Date of manufacture.

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

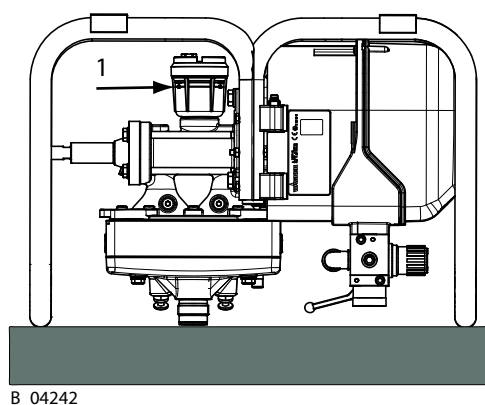
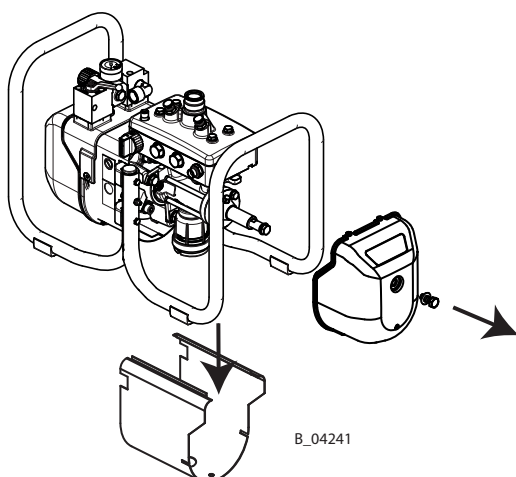
- Check hoses, pipes, and couplings every day and replace if necessary.
- Before every commissioning, check all connections for leaks.
- Additionally, the operator must regularly check the complete hoses for wear and tear as well as for damage at intervals that he/she has set. Records of these checks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

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

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

8.2.4 HYDRAULIC STAGE MAINTENANCE

Dismount the device onto a frame as shown in the picture and turn it upside down.
Observe the fill level marking (X) on the oil tank.



8.2.5 CHECKING THE OIL LEVEL

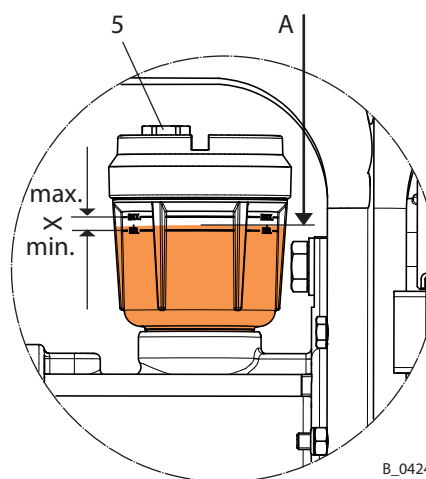
- 1 Start up the pump for a short time without any product.
- 2 Then read oil level A.

Dismount the device onto a frame as shown in the picture and turn it upside down.

Observe the fill level marking (X) on the oil tank.

Oil level A in the oil tank (1) has to be within the specified markings (X).

If the level deviates from these markings, the hydraulic oil must be topped up.



Procedure:

- 1 Unscrew and remove threaded plug (5).
- 2 Top up oil to level A = middle of marking X.
- 3 Start up the pump for a short time without any product and check for air bubbles.
- 4 Screw in threaded plug (5) and tighten with 2 Nm; 1.5 lbft.

NOTICE

Using hydraulic oil

Using the wrong hydraulic oil can cause a malfunction.

→ Use only original hydraulic oil - Wagner Order No. 322912 (250 ml or 15 cu inch).

8.2.6 CHANGING THE OIL

The oil should be changed after 500 service hours or once a year.

Necessary accessories:

Order No. 322911 Oil filling set

NOTICE

Using hydraulic oil

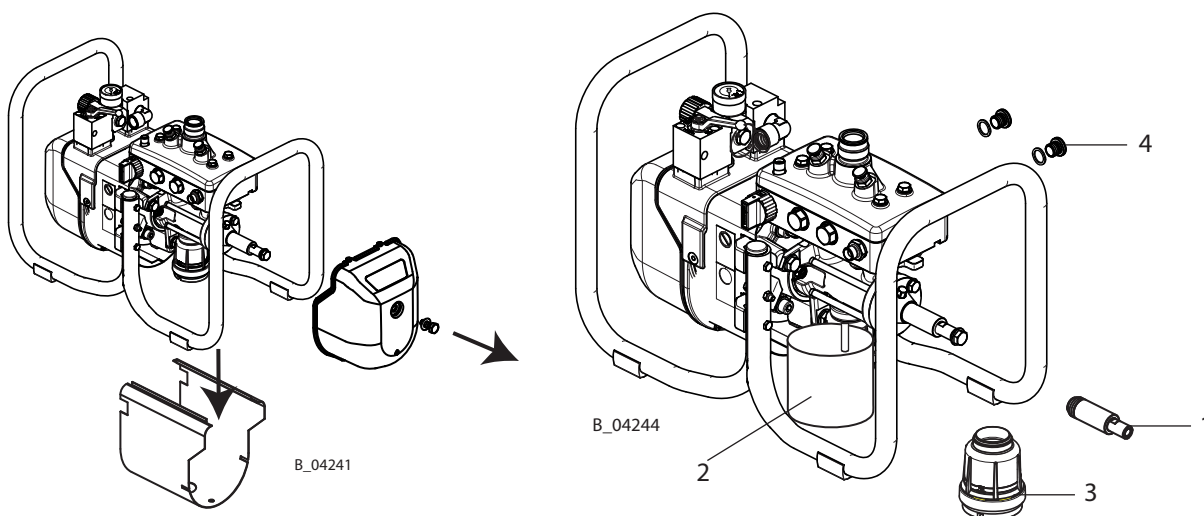
Using the wrong hydraulic oil can cause a malfunction.

→ Use only original hydraulic oil - Wagner Order No. 322912 (250 ml or 15 cu inch).

Discharging oil

Procedure:

- 1 Decommission and clean the device -> Chapter 8.1.3 up to and including point 6.
- 2 Position device as shown in the picture and dismount the hood and casing.
- 3 Unscrew piston cover (1).
- 4 Place empty oil collector (2) under the oil tank.
- 5 Unscrew oil tank (3) and drain contents.
- 6 Unscrew and remove locking screws (4) and seals.
- 7 Slowly start up the pump until no oil flows out of the oil suction fitting.
- 8 Screw in clean oil tank (3) and seal.



**CAUTION****Environmental pollution caused by waste oil!**

Waste oil in the sewage network or spilled on the ground causes severe environmental damage.

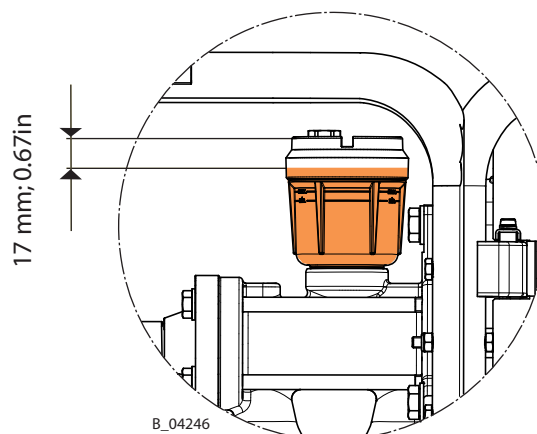
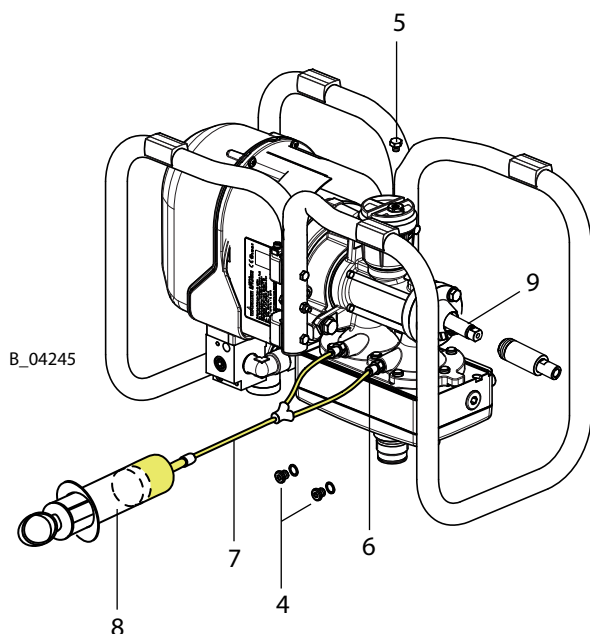
Groundwater pollution is liable to prosecution.

→ Collect waste oil and bring it to a collection point.

→ Waste oil is taken back by the seller when purchasing hydraulic oil.

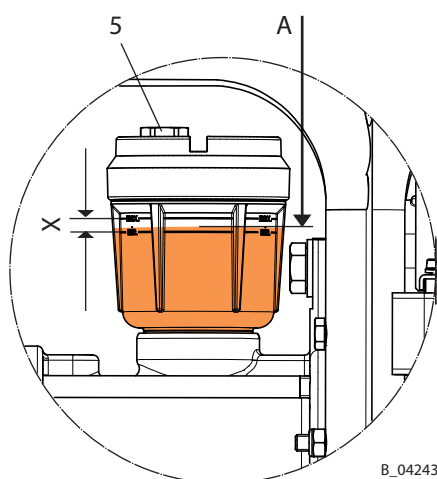
Filling hydraulic stage with oil**Procedure:**

- 1 Turn pump (mounted on the frame) upside down.
- 2 Unscrew and remove threaded plug (5).
- 3 Unscrew 2 locking screws (4) and replace with 2 screw fittings (6) from the oil filling set.
- 4 Connect hoses with Y-pieces (7).
- 5 Fill syringe (8) with hydraulic oil and insert into hose.
- 6 Move piston (9) into front end position. Use the syringe to fill the hydraulic stage until the oil flows out of the suction fitting into the oil tank (3) with no air bubbles.
- 7 Move piston (9) into rear end position. Use the syringe to fill the hydraulic stage until the oil flows out of the suction fitting into the oil tank (3) with no air bubbles.
- 8 Continue to top up the oil until the level before venting is approx. 17 mm; 0.67 inches below the upper edge of the oil tank.
- 9 Screw in threaded plug (5) and tighten gently. Put pump on its side and dismount oil filling set. Seal the filler openings tightly with 2 locking screws (4).

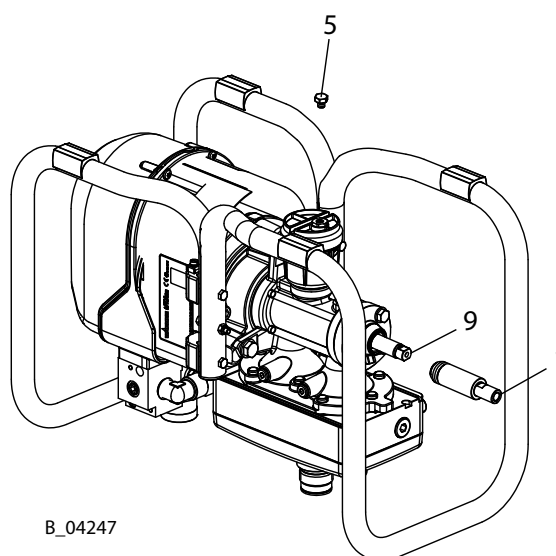


Vent**Procedure:**

- 1 Turn the pump upside down. Remove the threaded plug (5).
- 2 Slowly start up (vent) the pump until no air bubbles appear from the oil suction fitting.
- 3 Oil level A in the oil tank has to be within the specified markings (X).
- 4 Screw in threaded plug (5) and tighten with 2 Nm; 1.5 lbft.
- 5 Mount piston cover (1) and hood with casing.
- 6 The device is ready for operation again.



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9 TROUBLESHOOTING, MAINTENANCE, AND REPAIR

9.1 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 or high-pressure filter is clogged.	Clean the parts and use a suitable working material.
	Fluid section or high-pressure hose is blocked (e.g., 2K product hardened).	Dismount and clean fluid section, replace high-pressure hose.
	Grease in spool and sleeve assembly. Pump stops at the stroke end occasionally.	Degrease spool and sleeve assembly. Check detent body.
Poor spray pattern.	See the gun instructions.	
Irregular operation of product pump: spray jet collapses (pulsation)	Viscosity is too high.	Thin spraying product.
	Spraying pressure is too low.	Increase air inlet pressure. Use a smaller nozzle.
	Valves are clogged.	Press valve depressor. Clean product pump and leave to soak in cleaning agent if necessary.
	Foreign body in suction valve.	Dismount suction valve housing, clean, and check valve seat.
	Diameter of compressed air line too small.	Assemble a larger supply line -> Technical data, see Chapter 5.4.2.
	Valves, packings, or pistons are worn out.	Replace the parts.
	Control air filter or work air filter is clogged.	Check filter and clean it if necessary.
Strongly irregular operation of material pump.	Diaphragms "blocked" because suction is too fast.	Operate pump with ball valve opened a minimal amount for a while.
The pump runs evenly, does not however, suck up product.	The suction system's union nut is loose; the pump is taking in air.	Tighten.
	Suction filter is clogged.	Clean filter.
	Valves are clogged.	Press valve depressor. Clean product pump and leave to soak in cleaning agent if necessary.

Problem	Cause	Remedy
Pump runs fast when the spray gun is closed.	Valves worn.	Replace the parts.
Loss of power due to severe icing.	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.

10 REPAIR WORK

10.1 REPAIR STAFF

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

The following hazards may arise during repair work:

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

A skilled person must ensure that the device is checked for being in a reliable state after repair work is completed. Carry out function test in accordance with Chapter 11.

10.2 SAFETY INSTRUCTIONS

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

Before repair work

- Flush and clean the system. → Chapter 8.1.3.

After repair work

- Carry out a safety check in accordance with Chapter 8.2.3.
- Put the system into operation and check for leaks as described in Chapter 6.7.
- Function test in accordance with Chapter 11.

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

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



DANGER

Incorrect maintenance/repair!

Danger to life and damage to the device.

- 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:
 - Switch off the energy/compressed air supply.
 - Relieve the pressure from the spray gun and device.
 - Secure the spray gun to prevent actuation.
- Observe the operating manual and service manuals at all times when carrying out work.

10.3 CLEANING THE PARTS AFTER DISASSEMBLY**ATTENTION****Please note:**

- All reusable parts (except for the electrical components) should be cleaned thoroughly using a suitable cleaning agent.
- Spare parts may have safety-relevant properties.
- Defective parts, O-rings and seal sets must always be re-placed.

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

In Chapter 14 the order numbers for device spare parts can be found, as well as for wearing parts such as seals.

- Use torques, greases and glues in accordance with Chapter 14.

11 FUNCTIONAL CHECK AFTER REPAIR

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

Activities	Aid tools
1.1 Piston Travel - It must be possible to move the piston rod on both sides until the button stop with a pre-assembled pressure stage. Balancing bore must be completely open in the respective end position (visual inspection). (see Chapter 14.4 or 14.7)	Manual inspection
1.2 Oil filling - Mount pressure and fluid section on frame. Push piston into air motor-side end position. Fill pre-assembled pump with oil via filling port until oil is visible in the oil container. Push piston into the opposite end position. Fill pump further with oil until just below end of oil container inspection window (see Chapter 8.2.6).	Oil filling unit
1.3 EX-relevant inspections - Check mass connection between earthing connection of the pump and the frame/trolley and between the individual components of the frame/trolley: <100kΩ - Check conductivity between the piston and the earthing connection: <100kΩ !! These inspections are  - relevant!!	Ohmmeter
1.4 Testing for Leaks - Connect the air motor to the air supply 6 bar. To perform a leak test on the device, the product pressure with the flushing agent is slowly increased in increments until the maximum pressure indicated on the type plate is reached. Close pump outlet. Allow to stand in this position for 0.5-1 minute and listen for audible blowing off. Close air-supply ball-valve without relieving and check for pressure-loss. Check seal of following modules: - Flange seal - Ball valve (in all positions) - Pressure stage - Fluid section	Air motor: Test medium compressed air Leak spray Fluid section: Test medium: suitable flushing agent

Activities	Aid tools
1.5 General Inspections - Check tightening torque of various screws. Tighten hexagon screws M12x65 (40-10) or M16x80 (40-25) and input valve housing with the prescribed torque. (see Chapter 14) - Check all threaded connections - Empty device completely and relieve pressure - Check function of frame or transport trolley. Check whether the pump is mounted horizontally on the frame.	Torque wrench Visual check

12 DISPOSAL

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

The following materials have been used:

- Stainless steel
- Aluminum
- Elastomers
- Plastics
- Carbide

Consumable products (lacquers, adhesives, flushing and cleaning agents, solvents) must be disposed of in accordance with all applicable legal requirements.

13 ACCESSORIES

13.1 COBRA 40-10 ACCESSORIES

Accessories list for Cobra 40-10

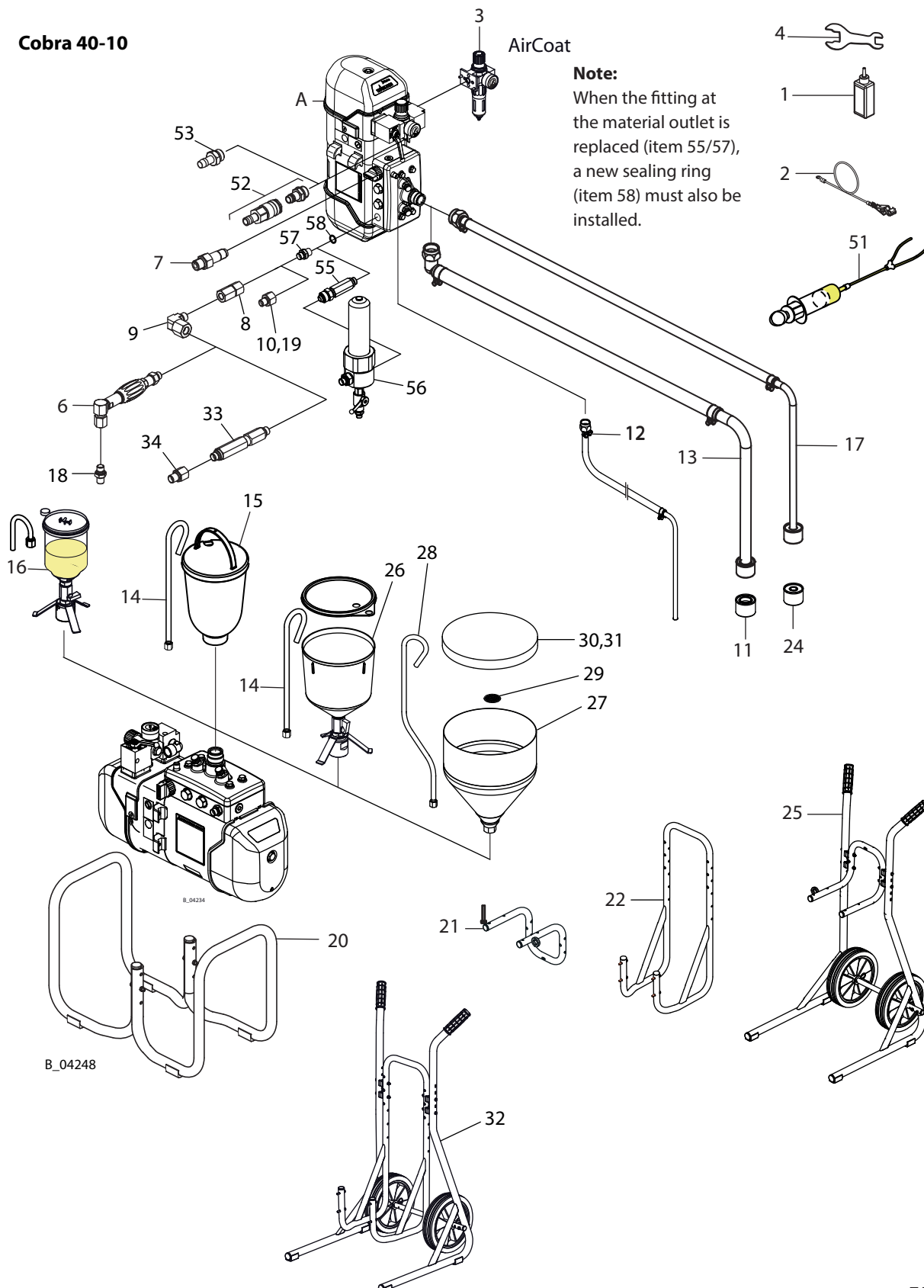
Pos	K	Order No.	Designation
A		2329519	Diaphragm pump Cobra 40-10
1	◆	322912	Hydraulic oil (for pressure stage) 250 ml; 250 cc
2	◆	236219	Grounding cable 3 m; 9.8 ft
3		2333479	AirCoat filter pressure regulator
4		341434	Double open-end wrench
6		2329026	Inline filter HL DN6-PN270-G1/4"-SSt
7		2325343	Fitting DF-MM-R1/4"-M12-PN270-SSt
8		2341068	Fitting SF-FF-G3/8-G1/4-530 bar-SSt
9		2331273	Fitting EF-FM-G1/4-G1/4-530bar-SSt
10		2332621	Fitting RF-FM-G3/8-1/4NPSM-530 bar-SSt
11		2323325	Air suction filter DN25
12		2329046	Return hose DN6-PN310-G1/4"-PA
13		2324116	Suction hose DN25
14		2333163	Return tube for item 15
15		2344505	5-liter hopper set for Cobra
16		2321424	Small quantity cup
17		2324110	Suction hose DN16
18		2330774	Fitting DF-MM-G1/4-1/4NPSM-530 bar-SSt
19		2332620	Fitting RF-FM-G3/8-3/8NPSM-530 bar-SSt
20		322052	Frame, complete
21		2332143	Wall mount 4", complete
22		2349756	Wall mounting long
24		2323396	Air suction filter DN16
25		2325901	Trolley 4", complete
26		2344741	2 L tank for Cobra
27		2341278	20 L tank for Cobra
28		2345265	Exhaust pipe 20L
29		3767	Filter disk D51
30		2304620	Drum cover 365-B
31		2304439	Drumcover 365-E
32		2341375	Cobra trolley, complete
33		2324558	Inline filter DN6-PN270-G1/4"-SSt
34		2332619	Fitting RF-FM-G1/4-1/4NPSM-530 bar-SSt
51	◆	322911	Oil filling set with 100 ml; 100 cc syringe
52	◆	322916	Air coupling set DN 10 mm; 0.39 inch
53	◆	9985619	Hose connector with sealing ring
55		2329922	Fitting SF-MM-G3/8"-M24-PN530-SSt
56		2335334	HP filter DN12-PN530-CS, complete
57		2330775	Fitting DF-MM-G3/8-G3/8-530bar-SSt
58		9974112	Sealing ring for G3/8 thread

◆ = Wearing part

Regarding position 7:

Fitting (7) can be screwed in instead of the relief valve. In this case, the required ball valve must be provided by the customer. The return hose can no longer be connected to the "return socket" output.

Cobra 40-10



13.2 COBRA 40-25 ACCESSORIES**Accessories list for Cobra 40-25**

Pos	K	Order No.	Designation
A		2329523	Diaphragm pump Cobra 40-25
1	◆	322912	Hydraulic oil (for pressure stage) 250 ml; 250 cc
2	◆	236219	Grounding cable 3 m; 9.8 ft
3		2333479	AirCoat filter pressure regulator
4		341434	Double open-end wrench
6		2329026	Inline filter HL DN6-PN270-G1/4"-SSt
7		2325343	Fitting DF-MM-R1/4"-M12-PN270-SSt
8		2341068	Fitting SF-FF-G3/8-G1/4-530 bar-SSt
9		2331273	Fitting-EF-FM-G1/4-G1/4-530bar-SSt
10		2332621	Fitting RF-FM-G3/8-1/4NPSM-530 bar-SSt
11		2323325	Air suction filter DN25
12		2329046	Return hose DN6-PN310-G1/4"-PA
13		2324116	Suction hose DN25
17		2324110	Suction hose DN16
18		2330774	Fitting DF-MM-G1/4-1/4NPSM-530 bar-SSt
19		2332620	Fitting RF-FM-G3/8-3/8NPSM-530 bar-SSt
20		2308732	Cobra 40-25 frame
21		2332143	Wall mount 4", complete
22		2349756	Wall mounting long
24		2323396	Air suction filter DN16
25		2325901	Trolley 4", complete
27		2341278	20 liter tank
28		2345265	Exhaust pipe 20L
29		3767	Filter disk D51
30		2304620	Drum cover 365 B
31		2304439	Drumcover 365-E
32		2341375	Cobra trolley, complete
33		2324558	Inline filter DN6-PN270-G1/4"-SSt
34		2332619	Fitting RF-FM-G1/4-1/4NPSM-530 bar-SSt
51	◆	322911	Oil filling set with 100 ml; 100 cc syringe
52	◆	322916	Air coupling set DN 10 mm; 0.39 inch
53	◆	9985619	Hose connector with sealing ring
55		2329922	Fitting SF-MM-G3/8"-M24-PN530-SSt
56		2335334	HP filter DN12-PN530-CS, complete
57		2330775	Fitting-DF-MM-G3/8-G3/8-530bar-SSt
58		2330780	Fitting-DF-MM-G1/2-G3/8-530bar-SSt
59		2333058	Fitting-SF-FM-G3/8-G1/2-530bar-SSt
60	◆	9974112	Sealing ring for G3/8 thread
61	◆	3051041	Sealing ring for G1/2 thread

◆ = Wearing part

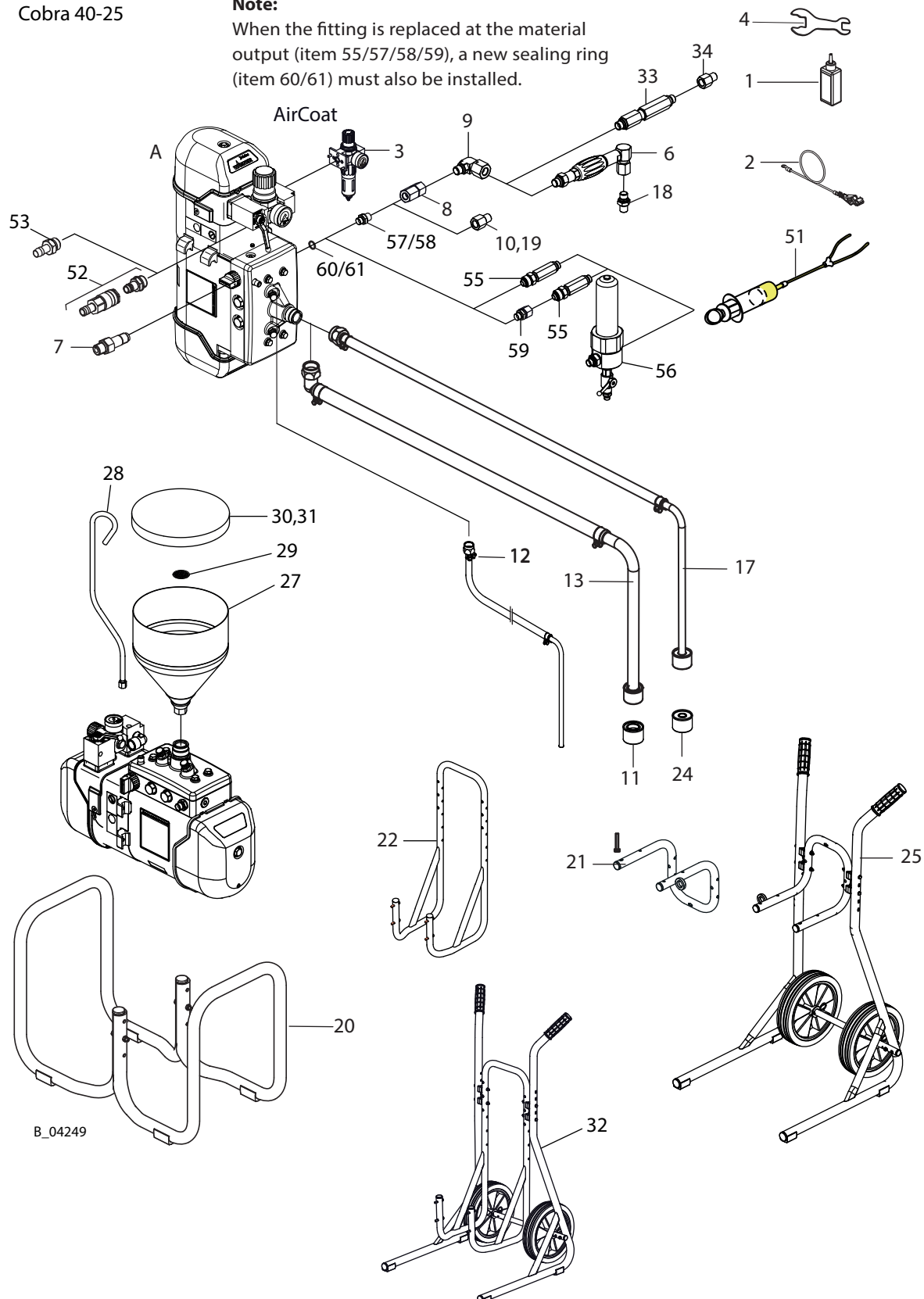
Note: When using the HP filter (item 56), the respective appropriate fitting must be used (for fluid sections material outlet 1/2", the two fittings pos. 55 and 59 are required; for fluid sections material outlet 3/8", only fitting item 55 is required). The suitable sealing ring (item 60/61) must also be used.

Regarding position 7:

Fitting (7) can be screwed in instead of the relief valve. In this case, the required ball valve must be provided by the customer. The return hose can no longer be connected to the "return socket" output.

Cobra 40-25**Note:**

When the fitting is replaced at the material output (item 55/57/58/59), a new sealing ring (item 60/61) must also be installed.



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14 SPARE PARTS

14.1 HOW CAN SPARE PARTS BE ORDERED?

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

Order number, designation, and quantity

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

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

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

Identification in spare parts lists

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

- ◆ Wearing parts

Note: These parts are not covered by warranty terms.

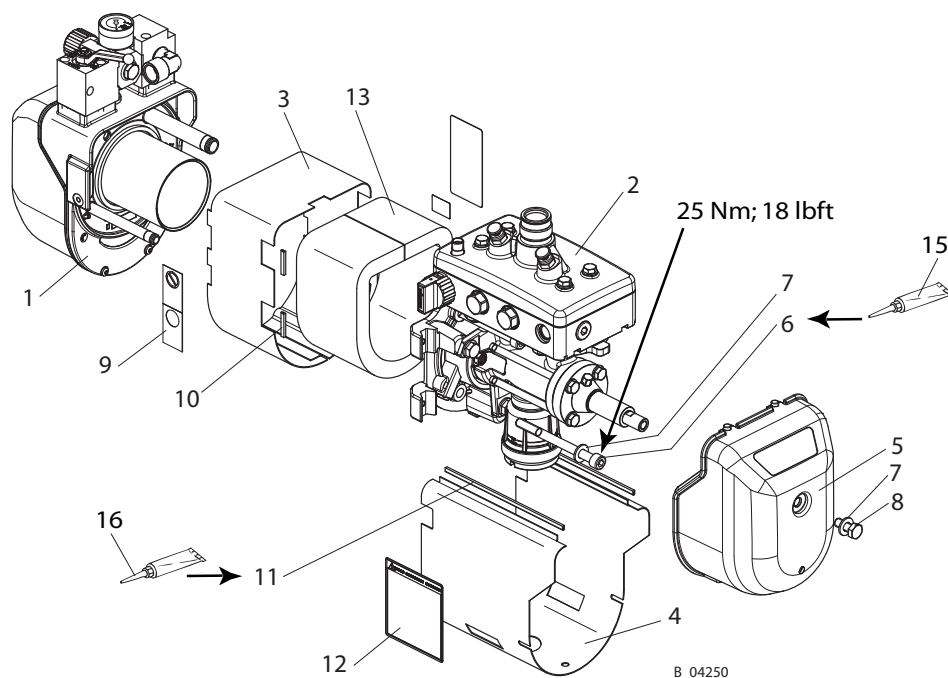
- Not part of the standard equipment but available as a special accessory.

	 WARNING Incorrect maintenance/repair! Risk of injury and damage to the device. → 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 to prevent actuation. → Observe the operating manual and service manuals at all times when carrying out work.
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14.2 OVERVIEW OF THE COBRA 40-10 COMPONENTS

Pos	K	Stk	Order No.	Designation
1		1	-	Air motor 3/53
2		1	-	Preassembled Cobra 40-10 fluid section
3		1	322436	Air motor casing
4		1	322437	Pressure stage casing
5		1	322235	Hood 4 with air outlet
6		3	9907224	Hexagon socket head cap screw
7		4	9920106	Washer
8		1	9900107	Hexagon screw
9		1	2332077	Warning label
10		4	9999211	Edge protection profile 30 mm; 1.18 inch
11		2	9999211	Edge protection profile 164 mm; 6.46 inch
12		1	2332082	Fluid warning label
13		1	322438	Cylinder noise insulation
14	◆	1	9974112	Sealing ring
15		1	9992616	Molykote DX grease
16		1	9992699	Loctite 406

◆ = Wearing part



14.3 COBRA 40-10 AIR MOTOR

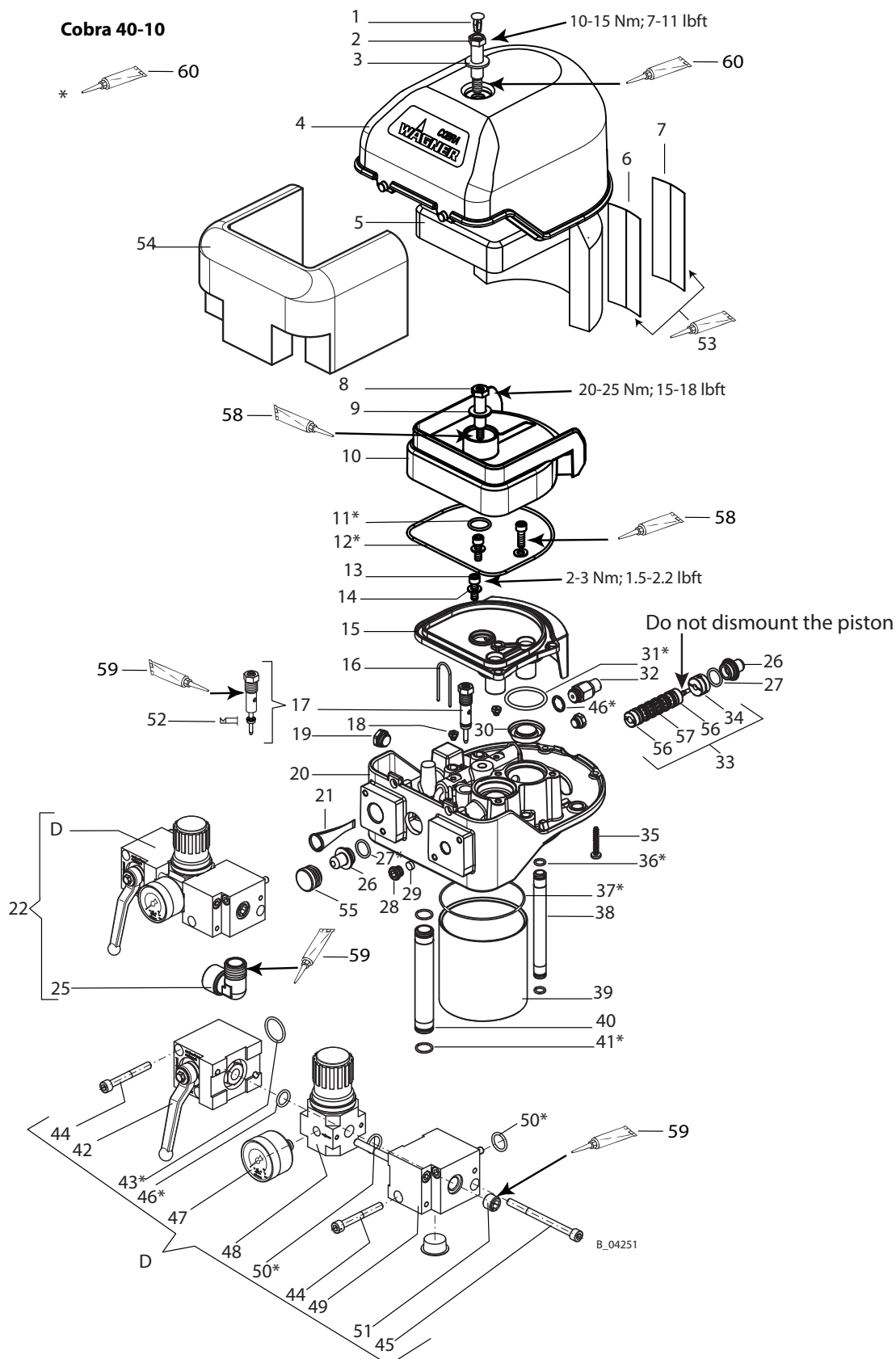
Pos	K	Stk	Order No.	Designation
1		1	9998718	Drive fastener
2		1	367318	Shoulder screw 4
3		1	9925033	Washer
4		1	367311	Hood 4
5	◆	1	367319	Sound absorbing mat 4
6		1	9999152	Velcro fastener coating part
7		1	9999151	Velcro fastener adhesive part
8		1	367318	Shoulder screw 4
9		1	9925033	Washer
10		1	367310	Silencer 4
11	◆ ★	1	9974098	O-ring
12	◆ ★	1	9974097	O-ring
13		3	9900325	Socket cap screw
14		3	9920103	Washer, A6.4
15		1	367309	Connecting part 4
16		2	367320	Cotter pin
17	◆	1	369290	Pilot valve
18		2	9998674	Threaded plug
19		1	9998274	Threaded plug
20		1	367315	Control housing 4
21	◆ ★	1	367313	Compressed air filter 4/6
22		1	2328606	Pressure regulator unit 4
25		1	9999228	Screw connector L
26		2	367307	Sealing plug 4/6
27	◆ ★	2	9974085	O-ring
28		1	367324	Filter holder
29	◆ ★	1	367314	Control air filter
30	◆ ★	1	322910	Cobra outlet seal set (consisting of 2 seals)
31	◆ ★	2	9974095	O-ring
32		1	368285	Safety valve 0.63 MPa; 6.3 bar; 91 psi
33	◆	1	9943080	Spool and sleeve assembly, complete
34	◆	1	368038	Detent body, complete, ISO 1/2
35		2	9907126	Screw SFS Plastite 45
36	◆ ★	2	9974089	O-ring
37	◆ ★	2	9974115	O-ring
38		1	322432	Control air pipe
39		1	322430	Cylinder pipe
40		1	322431	Compressed air pipe
41	◆ ★	2	9971448	O-ring
42	◆	1	2310635	Edge ball valve mini 4

◆ = Wearing part

★ = Included in service set

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

Cobra 40-10

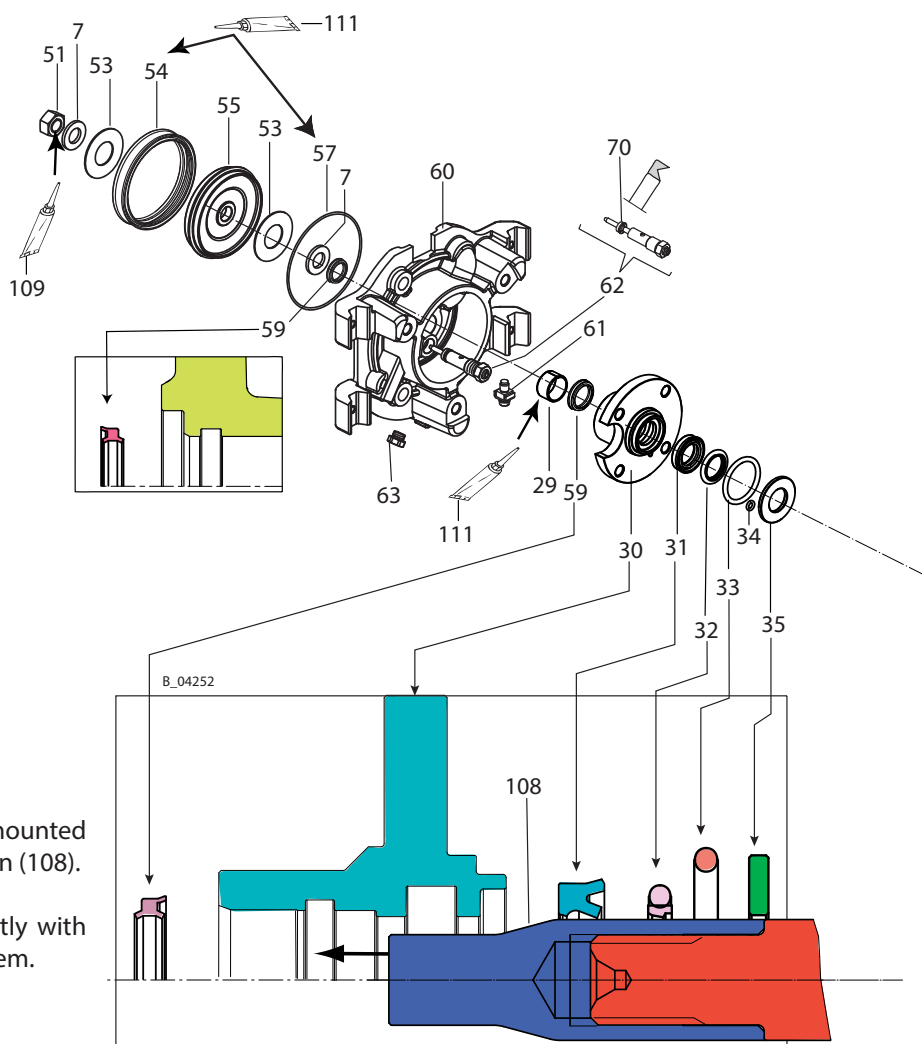


Pos	K	Stk	Order No.	Designation
43	◆ ★	1	9971137	O-ring
44		4	9900316	Hexagon socket head cap screw M6x50
45		2	9907039	Hexagon socket head cap screw M6x80
46	◆ ★	1	9971313	O-ring
47	◆	1	2341175	Manometer with air regulator 0-10 bar, G1/8"
48	◆	1	2309972	Pressure regulator
49		1	-	Distributor piece mini 4
50	◆ ★	2	9974166	O-ring
51		1	9904407	Locking screw R1/4
52	◆	1	9974217	Rod seal
53		1	9992816	Adhesive
54	◆	1	322439	Air motor noise insulation
55		1	9990861	Ribbed plug
56	◆	2	368313	Damper ISO1 and ISO2
57	◆	6	9971123	O-ring
58		1	9992590	Loctite 222 50 ml; 50 cc
59		1	9992831	Loctite 542 50 ml; 50 cc
60		1	9992616	Molykote DX grease
			2341627	Cobra 40-10 air motor service set

◆ = Wearing part

★ = Included in service set

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

14.4 COBRA 40-10 FLUID SECTION**Notes:**

The piston rod (25) may only be mounted with the screwed-on assembly pin (108).

Grease all o-rings and seals lightly with grease (111) before mounting them.

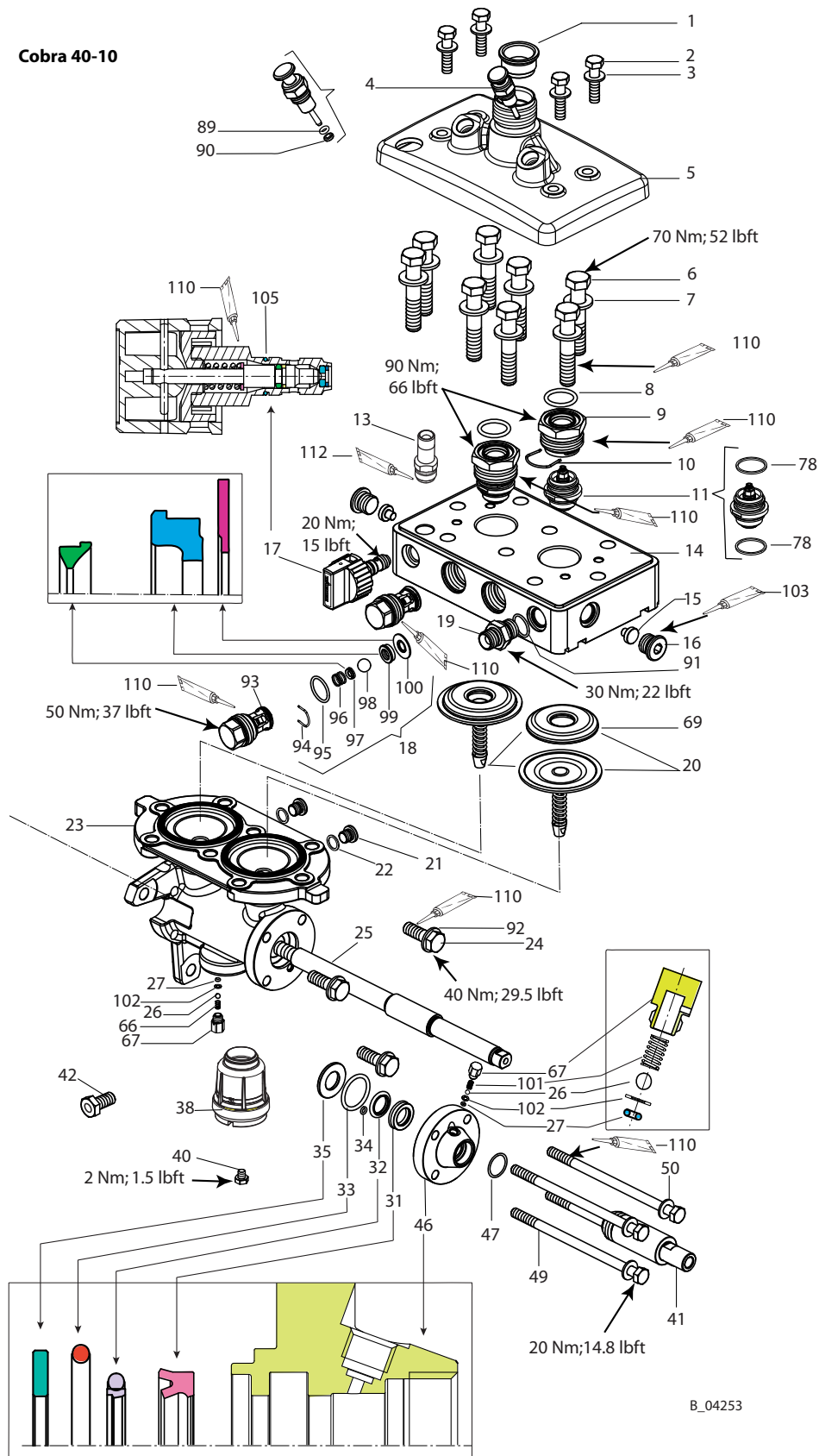
Cobra 40-10 fluid section

Pos	K	Stk	Order No.	Designation
1		1	2329898	Sealing sleeve
2		4	9900204	Hexagon screw
3		4	9920102	Washer
4		2	341241	Inlet valve depressor, complete, see Chapter 14.10
5		1	2330764	Inlet housing

◆ = Wearing part

★ = Included in the service set for Cobra 40-10 fluid section.

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

Cobra 40-10

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Cobra 40-10 fluid section

Pos	K	Stk	Order No.	Designation
6		8	9907234	Hexagon screw
7		10	9920107	Washer
8	◆ ★	2	9974184	O-ring
9		2	322411	Valve fitting
10		2	341336	Clasp
11	◆ ★	1	322914	Inlet valve set, complete (comprising 2 valves), see Chapter 14.9
13		1	2330810	Connection piece
14		1	322410	Fluid section
15		2	322412	Plug
16		2	9904311	Screw plug
17	◆	1	169248	Relief valve, complete, see Chapter 14.11
18	◆ ★	1	322915	Outlet valve set, complete (spare parts for 2 valves)
19		1	2330775	Fitting-DF-MM-G3/8-G3/8-530bar-SSt
20	◆ ★	1	322913	Complete diaphragm set with insert (comprising 2 diaphragms)
21		2	9904306	Screw plug
22	◆	2	9970127	Sealing ring
23		1	322401	Pressure stage D19/53
24		3	9907041	Hexagon screw
25		1	322402	Piston rod D19/53
26		2	9941502	Ball
27	◆	2	9971189	O-ring
29		1	9962028	Permaglide bushing
30		1	322403	Pressure stage flange
31	◆	2	9974182	Rod sealing profile BS
32	◆	2	9974183	Rod sealing set
33	◆	2	9974186	O-ring
34	◆	2	9971446	O-ring
35		2	322405	Pressure disk
37	◆	1	115944	O-ring
38		1	2352719	Set oil tank
40		1	9998274	Threaded plug M7x1
41		1	322435	Piston cover
42		1	2334842	Pressure relief valve
46		1	322404	Pressure stage cover disk
47	◆	1	9974074	O-ring
49		4	9907233	Hexagon screw
50		4	9920102	Washer
51		1	9910101	Hexagon nut
53	◆	2	322427	Damping washer
54	◆	1	9974181	Piston sealing profile Z5

◆ = Wearing part

★ = Included in the service set for Cobra 40-10 fluid section.

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

Cobra 40-10 fluid section

Pos	K	Stk	Order No.	Designation
55		1	322426	Piston air motor 3
57	◆	1	9974115	O-ring
59	◆	2	9974185	Seal wiper ring, profile EM
60		1	322425	Air motor flange
61		1	367258	Grounding, complete
62	◆	1	369290	Pilot valve
63		1	9998675	Threaded plug
66		1	9998780	Compression spring
67		2	322407	Oil valve screw
68	◆	3	9971162	O-ring
69		2	322415	Insert
70	◆	1	9974217	Rod seal
78	◆	4	341331	Sealing ring
89	◆ ★	2	9971486	O-ring (solvent-resistant)
90	◆	2	341316	Scraper
91	◆	1	9974112	Sealing ring für G3/8 thread
92		3	9920106	Washer
93		2	341325	Valve guide
94		2	341328	Clasp
95	◆	2	9971470	O-ring
96		2	341326	Compression spring
97		2	253405	Spring support ring
98	◆	2	9941501	Ball 11 HM
99	◆	2	341327	Outlet valve seat
100	◆	2	341347	Sealing ring
101		1	9994237	Compression spring
102	◆	2	322408	Oil valve pressure ring
103		1	9992590	Loctite 222 50 ml; 50 cc
104		1	9992831	Loctite 542 50 ml; 50 cc
105	◆ ★	1	9971395	O-ring, 10x1.25
106		1	2312288	Service set for Cobra 40-10 fluid section
107		1	322917	Service set for Cobra 40-10 piston (incl. items 25, 31, 32, 33, 59, and 108)
108		1	322930	Piston rod assembly pin
109		1	9992511	Loctite 243 50 ml; 50 cc
110		1	9992616	Molykote DX grease
111		1	9998808	Mobilux EP 2 grease
112		1	9992528	Loctite 270 50 ml; 50 cc

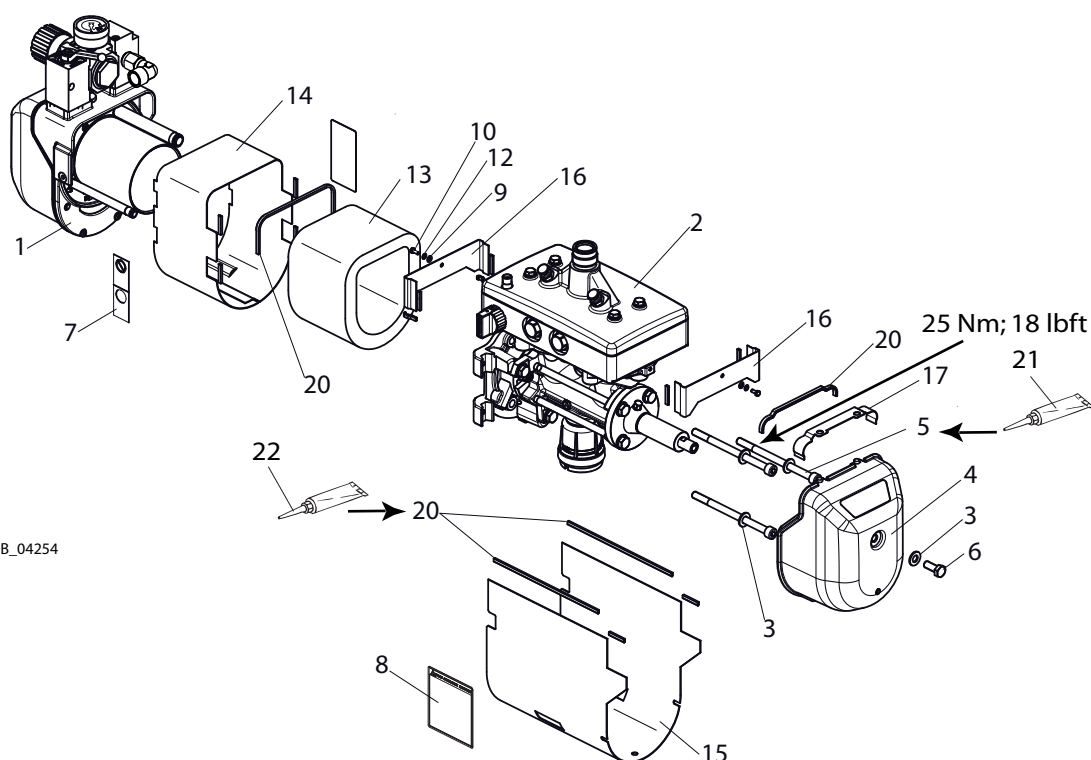
◆ = Wearing part

★ = Included in the service set for Cobra 40-10 fluid section.

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

14.5 OVERVIEW OF THE COBRA 40-25 COMPONENTS

Pos	Stk	Order No.	Designation
1	1	-	Cobra 40-25 air motor
2	1	--	Preassembled Cobra 40-25 fluid section
3	4	9920106	Washer
4	1	322235	Hood 4 with air outlet
5	3	2308693	Hexagon socket head cap screw
6	1	9900107	Hexagon screw without shaft
7	1	2332077	Warning label
8	1	2332082	Fluid warning label
9	2	9920104	Washer
10	2	9900152	Hexagon screw
12	2	9922107	Lock washer internal teeth
13	1	2308646	Cylinder noise insulation
14	1	2306110	Air motor casing
15	1	2306111	Pressure stage casing
16	2	2306114	Fluid section bulkhead
17	1	2308620	Pressure stage casing
20	1	9999211	Edge protection profile (total length: 0.80 m; 2.62 ft)
21	1	9992616	Molykote DX grease
22	1	9992699	Loctite 406



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14.6 COBRA 40-25 AIR MOTOR

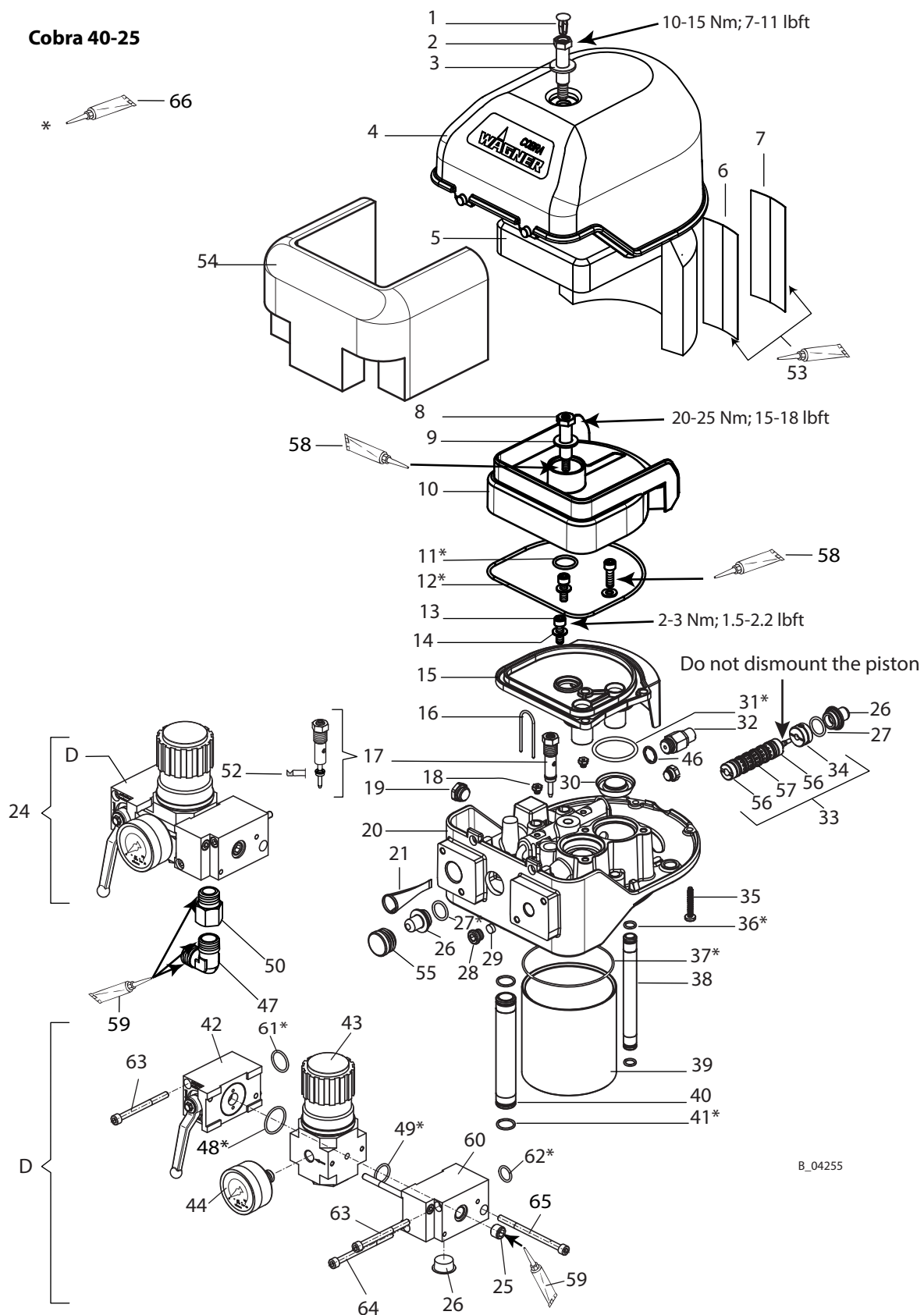
Pos	K	Stk	Order No.	Designation
1		1	9998718	Drive fastener
2		1	367318	Shoulder screw 4
3		1	9925033	Washer
4		1	367311	Hood 4
5	◆	1	367319	Sound absorbing mat 4
6	◆	1	9999152	Velcro fastener coating part
7	◆	1	9999151	Velcro fastener adhesive part
8		1	367318	Shoulder screw 4
9		1	9925033	Washer
10		1	367310	Silencer 4
11	◆ ★	1	9974098	O-ring
12	◆ ★	1	9974097	O-ring
13		3	9900325	Socket cap screw
14		3	9920103	Washer, A6.4
15		1	367309	Connecting part 4
16		2	367320	Cotter pin
17		1	369290	Pilot valve
18		2	9998674	Threaded plug
19		1	9998274	Threaded plug
20		1	367315	Control housing 4
21	◆ ★	1	367313	Compressed air filter 4/6
24		1	2328608	Cobra pressure regulator unit
25		4	9906036	Hexagon socket head cap screw M6x55
26		2	367307	Sealing plug 4/6
27	◆ ★	2	9974085	O-ring
28		1	367324	Filter holder
29	◆ ★	1	367314	Control air filter
30	◆ ★	1	322910	Cobra outlet seal set (consisting of 2 seals)
31	◆ ★	2	9974095	O-ring
32		1	368285	Safety valve 0.63 MPa; 6.3 bar; 91 psi
33	◆	1	9943080	Spool and sleeve assembly, complete
34	◆	1	368038	Detent body, complete, ISO 1/2
35		2	9907126	Screw SFS Plastite 45
36	◆ ★	2	9974089	O-ring
37	◆ ★	2	9974084	O-ring
38		1	367305	Control air pipe
39		1	2306127	Cylinder pipe
40		1	367304	Compressed air pipe
41	◆ ★	2	9971448	O-ring
42	◆	1	2311016	Edge ball valve midi to size 4

◆ = Wearing part

★ = Included in service set.

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

Cobra 40-25



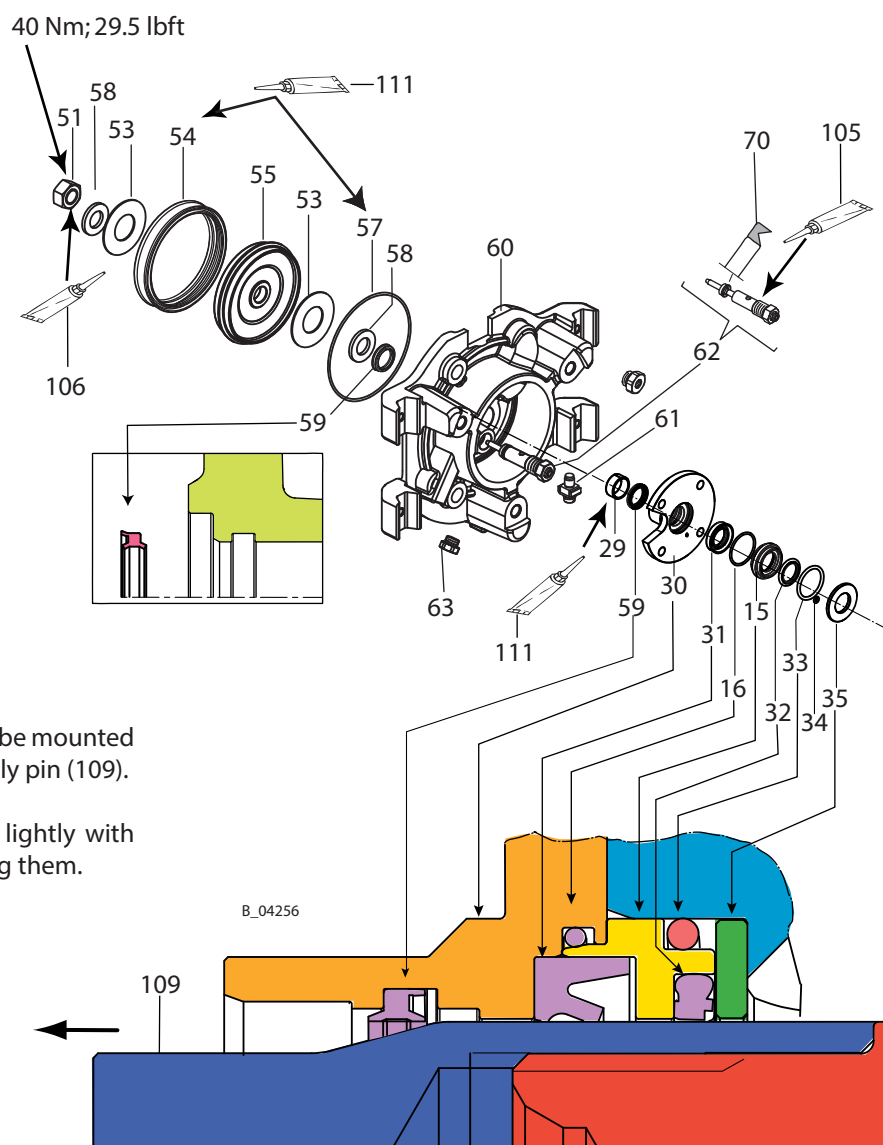
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Pos	K	Stk	Order No.	Designation
43	◆	1	2309973	Pressure regulator valve LR-1/2-D-O-Midi
44	◆	1	2341176	Manometer with air regulator 0-10 bar, G1/4"
47		1	M262.00	Elbow screw-in connection
48	◆ ★	1	3105540	O-ring
49	◆ ★	1	9971018	O-ring
50		2	M396.00	Reducing fitting
52	◆	1	9974217	Rod seal
53		1	9992816	Adhesive (70 g tube)
54	◆	1	322439	Air motor noise insulation
55		1	9990861	Ribbed plug
56	◆	2	368313	Damper ISO1 and ISO2
57	◆	6	9971123	O-ring
58		1	9992590	Loctite 222 50 ml; 50 cc
59		1	9992831	Loctite 542 50 ml; 50 cc
60		1	-	Distribution piece midi to size 4
61	◆ ★	1	9971137	O-ring
62	◆ ★	1	9974166	O-ring
63		3	9906020	Hexagon socket head cap screw M6x70
64		1	9907039	Hexagon socket head cap screw M6x80
65		2	9907014	Hexagon socket head cap screw M6x90
66		1	9992616	Molykote DX grease
			2341628	Cobra 40-25 air motor service set

◆ = Wearing part

★ = Included in service set.

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

14.7 COBRA 40-25**Note:**

The piston rod (25) may only be mounted with the screwed-on assembly pin (109).

Grease all o-rings and seals lightly with grease (111) before mounting them.

Cobra 40-25 fluid section

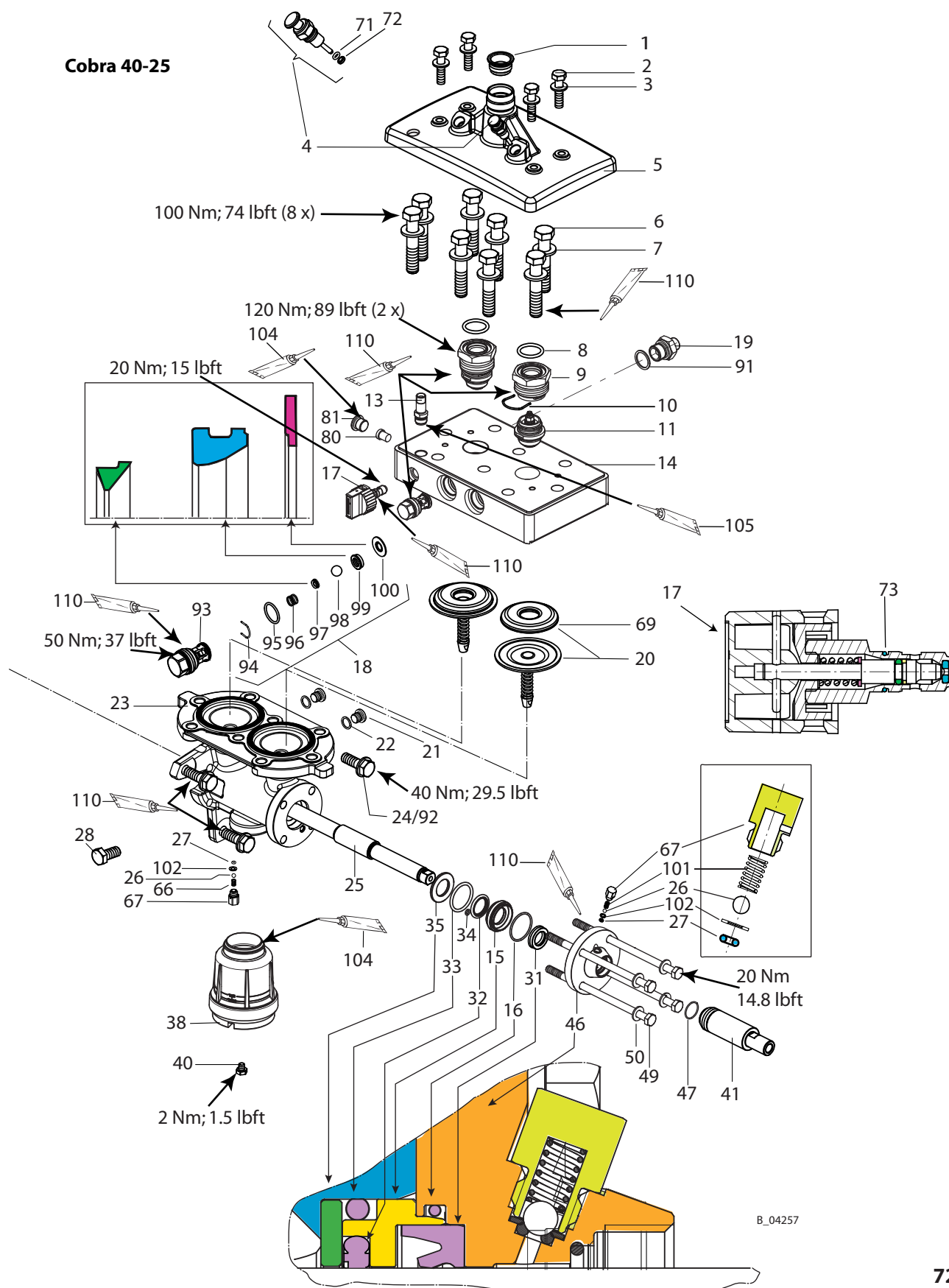
Pos	K	Stk	Order No.	Designation
1		1	2329898	Sealing sleeve
2		4	9900204	Hexagon screw
3		4	9920102	Washer
4		2	341241	Inlet valve depressor, complete, see Chapter 14.10
5		1	2330795	Inlet housing
6		8	2306195	Hexagon screw
7		8	9925011	Washer

◆ = Wearing part

★ = Included in the service set for Cobra 40-25 fluid section.

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

Cobra 40-25



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Cobra 40-25 fluid section

Pos	K	Stk	Order No.	Designation
8	◆ ★	2	2306183	O-ring
9		2	2306164	Valve fitting
10		2	341336	Clasp
11	◆ ★	1	2308753	Inlet valve set, complete (comprising 2 valves), see Chapter 14.8
13		1	2330810	Connection piece
14		1	2337668	Fluid section
15		2	2308868	Flange connection
16		2	2308886	O-ring
17	◆	1	169248	Relief valve, complete (for spare parts, see Chapter 14.11)
18	◆ ★	1	2308760	Outlet valve set, complete (spare parts for 2 valves)
19*		1	2330775	Fitting-DF-MM-G3/8-G3/8-530bar-SSt
19*		1	2330780	Fitting-DF-MM-G1/2-G3/8-530bar-SSt
20	◆ ★	1	2308754	Complete Cobra 40-25 diaphragm kit with insert (comprising 2 diaphragms)
21		2	9904306	Screw plug
22	◆	2	9970127	Sealing ring
23		1	2306134	Pressure stage
24		3	9907041	Hexagon screw
25		1	2306251	Piston rod D25/70
26		2	9941502	Ball
27	◆	2	9971189	O-ring
28		1	2334842	Pressure relief valve
29		1	2306146	Permaglide bushing
30		1	2308870	Pressure stage flange
31	◆	2	2306143	Rod sealing profile BS
32	◆	2	2306144	Rod sealing set
33	◆	2	2306145	O-ring
34	◆	2	9971446	O-ring
35		2	2306139	Pressure disk
37	◆	1	115944	O-ring
38		1	2352719	Set oil tank
40		1	9998274	Threaded plug M7x1
41		1	2306196	Piston cover
46		1	2308869	Pressure stage cover disk
47	◆	1	2306142	O-ring
49		4	9907124	Hexagon screw
50		4	9920106	Washer
51		1	9910101	Hexagon nut
53	◆	2	322427	Damping washer
54	◆	1	2306204	Piston sealing profile Z5
55		1	2306205	Piston air motor 4
57	◆	1	9974084	O-ring
58		2	9920107	Washer

◆ = Wearing part

★ = Included in the service set for Cobra 40-25 fluid section.

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

Cobra 40-25 fluid section

Pos	K	Stk	Order No.	Designation
59	◆	1	9974090	Seal wiper ring, profile EM
60		1	2306202	Air motor flange
61		1	367258	Grounding, complete
62	◆	1	369290	Pilot valve
63		2	9998675	Threaded plug
66		1	9998780	Compression spring
67		2	322407	Oil valve screw
68	◆	1	9971162	O-ring
69		2	2306179	Insert
70	◆	1	9974217	Rod seal
71	◆ ★	2	9971486	O-ring (solvent-resistant)
72	◆	2	341316	Scraper
73	◆ ★	1	9971395	O-ring, 10x1.25
80		1	2339251	Plug
81		1	9904311	Locking screws with collar/hexagon socket
91*	◆	1	9974111	Sealing ring für G3/8 thread
91*	◆	1	3051041	Sealing ring for G1/2 thread
92		3	9920106	Washer
93		2	341325	Valve guide
94		2	341328	Clasp
95	◆	2	9971470	O-ring
96		2	341326	Compression spring
97		2	253405	Spring support ring
98	◆	2	9941501	Ball 11 HM
99	◆	2	2306166	Outlet valve seat
100	◆	2	2306167	Sealing ring
101		1	9994237	Compression spring
102	◆	2	322408	Oil valve pressure ring
104		1	9992831	Loctite 542 50 ml; 50 cc
105		1	9992528	Loctite 270 50 ml; 50 cc
106		1	9992511	Loctite 243 50 ml; 50 cc
107		1	2312289	Service set for Cobra 40-25 fluid section
108		1	2314671	Service set for Cobra 40-25 piston (incl. items 16, 25, 31, 32, 33, 59, and 109)
109		1	2314670	Piston rod assembly pin
110		1	9992616	Molykote DX grease
111		1	9998808	Mobilux EP 2 grease

◆ = Wearing part

★ = Included in the service set for Cobra 40-25 fluid section.

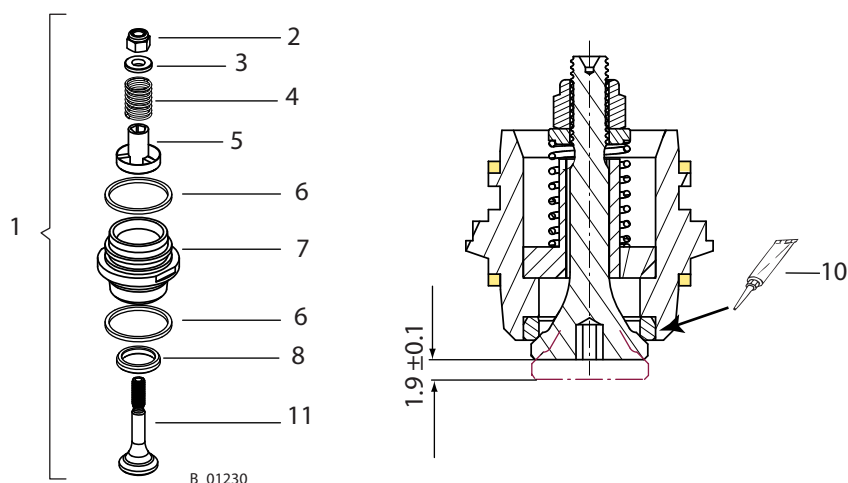
● = Not part of the standard equipment but available as a special accessory.

* The internal thread at the material output of the fluid section (item 14) will be converted as of 2014 from G1/2" to G3/8", please use the corresponding fitting and sealing ring (see Chapter Accessories).

14.8 COBRA 40-10 INLET VALVE

Pos	K	Stk	Order No.	Designation
1	◆	1	322914	Complete Cobra 40-10 inlet valve set
2		2	9912100	Hexagon nut with clamp
3		2	344334	Spring guide
4		2	190304	Compression spring
5		2	158333	Guide
6	◆	4	341331	Sealing ring
7		2	344322	Valve housing
8	◆	2	340346	Valve seat
10	◆	1	9992528	Loctite 270 50 ml; 50 cc
11		2	340342	Valve cone

◆ = Wearing part

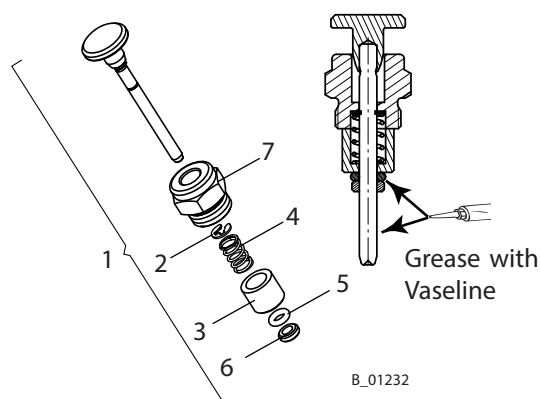
**Note:**

Item 8 -> adhesive area:
Pretreated with fast cleaner
Loctite type 7063.

14.9 INLET VALVE DEPRESSOR

Pos	Stk	Order No.	Designation
1	1	341241	Inlet valve depressor, complete
2	1	9922724	Lock washer 3.2
3	1	341377	Sleeve
4	1	9994275	Compression spring
5	◆	9971486	O-ring 4x2
6	◆	341316	Scraper
7	1	341375	Screw plug

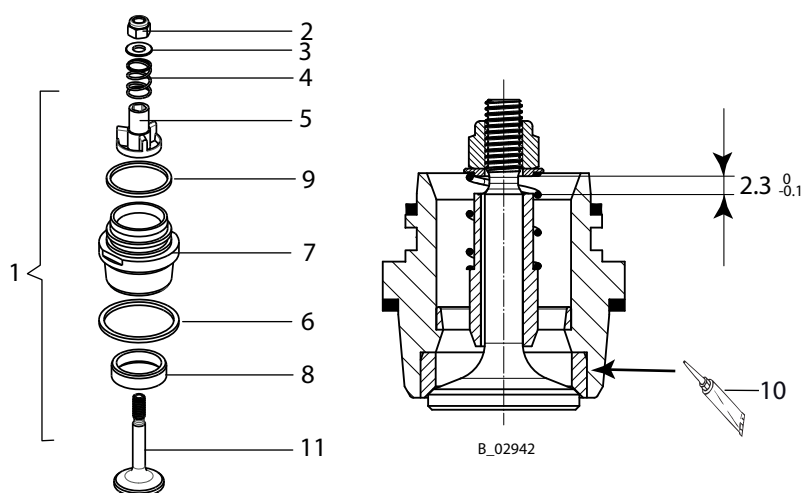
◆ = Wearing part



14.10 COBRA 40-25 INLET VALVE

Pos	K	Stk	Order No.	Designation
1	◆	1	2308753	Complete Cobra 40-25 inlet valve set
2		2	9912100	Hexagon nut with clamp
3		2	253324	Spring guide
4		2	9994304	Compression spring
5		2	341344	Valve guide
6	◆	2	341330	Sealing ring
7		2	-	Valve housing
8	◆	2	341385	Valve seat
9	◆	2	341331	Sealing ring
10		1	9992528	Loctite 270 50 ml; 50 cc
11	◆	2	341395	Valve cone

◆ = Wearing part

**Note:**

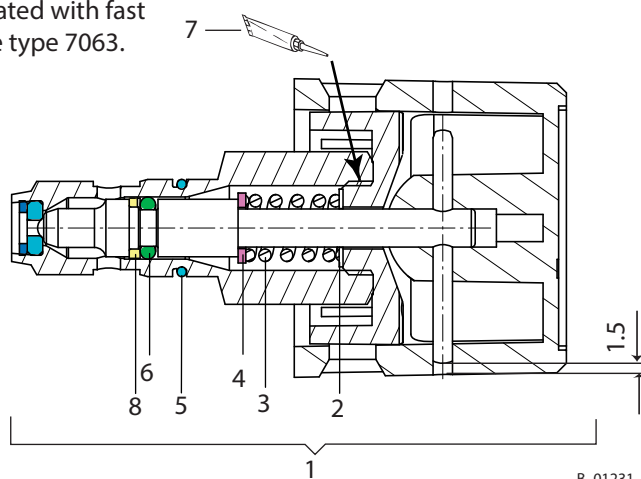
Item 8 -> adhesive area:
Pretreated with fast cleaner
Loctite type 7063.

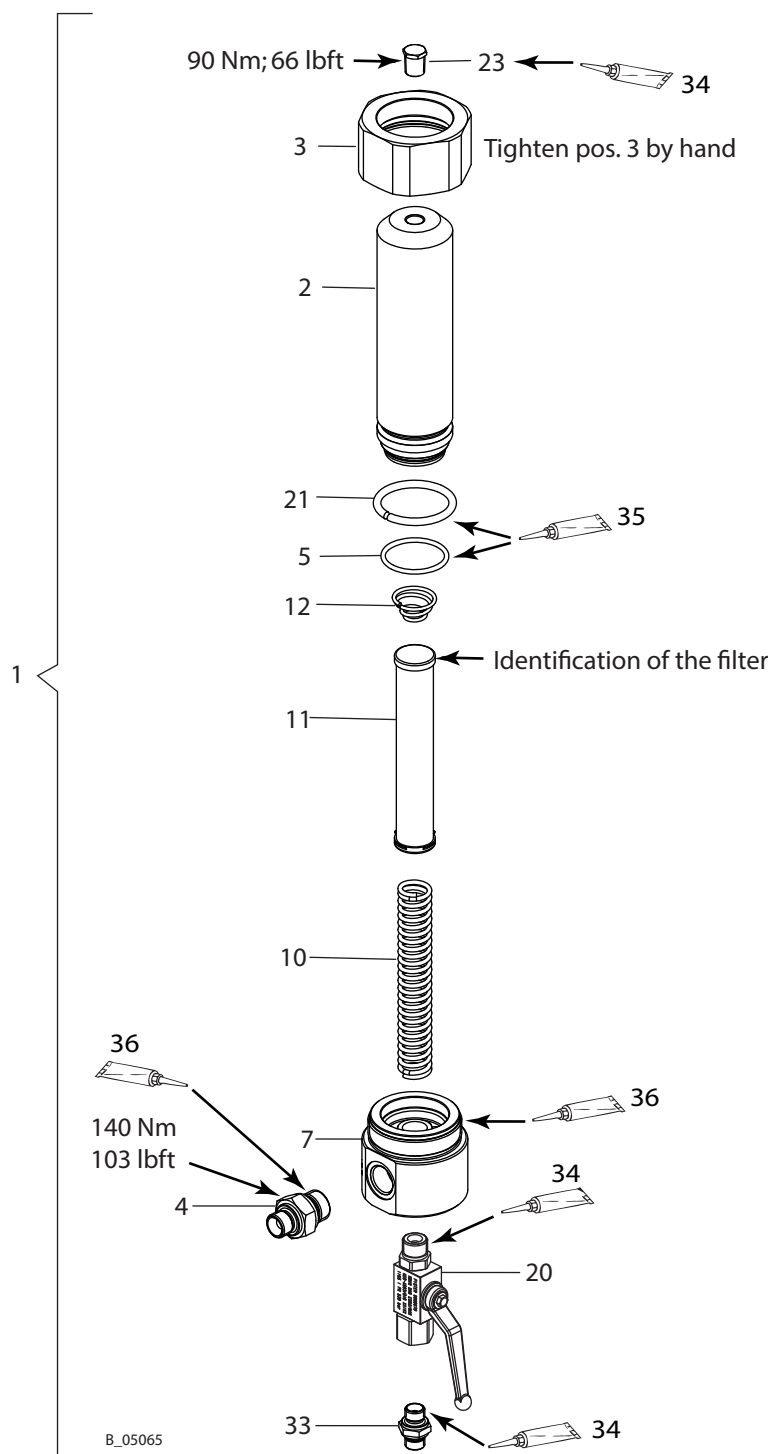
14.11 RELIEF VALVE

Pos	K	Stk	Order No.	Designation
1	◆	1	169248	Relief valve, complete
2		1	9920602	Adjusting washer
3		1	169346	Compression spring
4		1	9920202	Washer
5	◆	1	9971395	O-ring, 10x1.25
6	◆	1	9971486	O-ring 4x2
7		1	9992528	Loctite 270, 50 ml; 50 cc
8	◆	1	9971367	Spiral baking ring 4.78x1.78

◆ = Wearing part

Thread: Pretreated with fast cleaner Loctite type 7063.

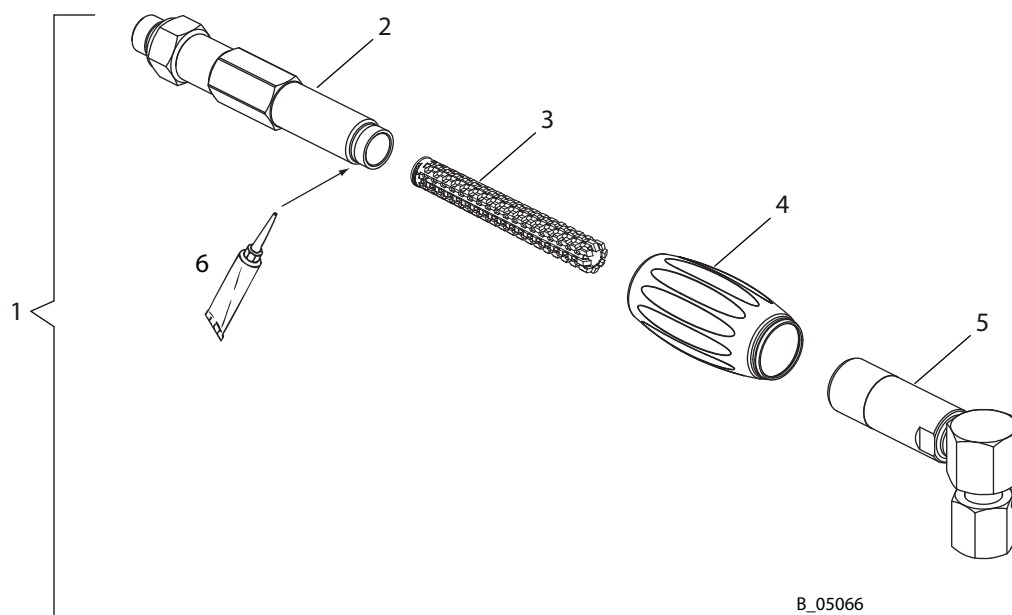


14.12 HIGH-PRESSURE FILTER (UP TO 530 BAR; 7687 PSI)

Ball valve version in:				Carbon steel
Pos	K	Stk	Designation	Order No.
1		1	HP filter DN12-PN530, complete	2335334
2		1	Filter housing	2324542
3		1	Union nut	2324543
4		1	Fitting-DF-MM-G1/2-G3/8-PN530-SSt	2330780
5	◆	1	O-ring	9955863
7		1	Distribution housing for ball valve	2324670
10		1	Filter support	9894245
11	◆	1	Filter sieve *	
	◆ ●		* Filter sieve 200	295721
	◆		* Filter sieve 100	3514068
	◆ ●		* Filter sieve 50	3514069
	◆ ●		* Filter sieve 20	291564
12	◆	1	Cone spring	3514058
20	◆	1	Ball valve	9998679
21		1	Pressure ring d45	2325562
23		1	Hexagon plug	2323718
33		1	Double connector	2325826
34		1	Loctite 542 50 ml; 50 cc	9992831
35		1	Mobilux EP 2 grease	9998808
36		1	Anti-seize paste tube	9992609

◆ = Wearing parts

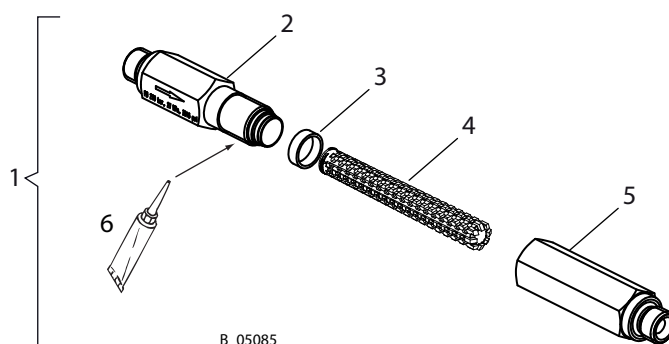
● = Not part of the standard equipment but available as a special accessory.

14.13 INLINE FILTER 90° (UP TO 270 BAR; 3,916 PSI)

Pos	K	Stk	Order No.	Designation
1		1	2329026	Inline filter HL DN6-PN270-G1/4"-SSSt
2		1	2326045	Filter inlet housing, pre-assembled
3	◆	1	--	Filter insert, yellow (middle), 100 mesh per inch*
	◆ ●	1	2315723	*Filter insert, red (fine), 200 mesh per inch, 10 pieces
	◆ ●	1	2315724	*Filter insert, blue (middle), 150 mesh per inch, 10 pieces
	◆ ●	1	2315725	*Filter insert, yellow (middle), 100 mesh per inch, 10 pieces
	◆ ●	1	2315726	*Filter insert, white (coarse), 50 mesh per inch, 10 pieces
4		1	2311491	Turning handle
5		1	2325950	Filter outlet housing 90°, pre-assembled
6		1	9992609	Anti-seize paste tube

◆ = Wearing parts

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

14.14 STRAIGHT INLINE FILTER (UP TO 270 BAR; 3,916 PSI)

Pos	K	Stk	Order No.	Designation
1		1	2324558	Inline filter DN6-PN270-G1/4"-SSt
2		1	2324550	Filter inlet housing
3	◆	1	128389	Seal
4	◆	1	--	Filter insert, yellow (middle), 100 mesh per inch*
	◆ ●	1	2315723	*Filter insert, red (fine), 200 mesh per inch, 10 pieces
	◆ ●	1	2315724	*Filter insert, blue (middle), 150 mesh per inch, 10 pieces
	◆ ●	1	2315725	*Filter insert, yellow (middle), 100 mesh per inch, 10 pieces
	◆ ●	1	2315726	*Filter insert, white (coarse), 50 mesh per inch, 10 pieces
5		1	2324551	Filter outlet housing
6		1	9992609	Anti-seize paste tube

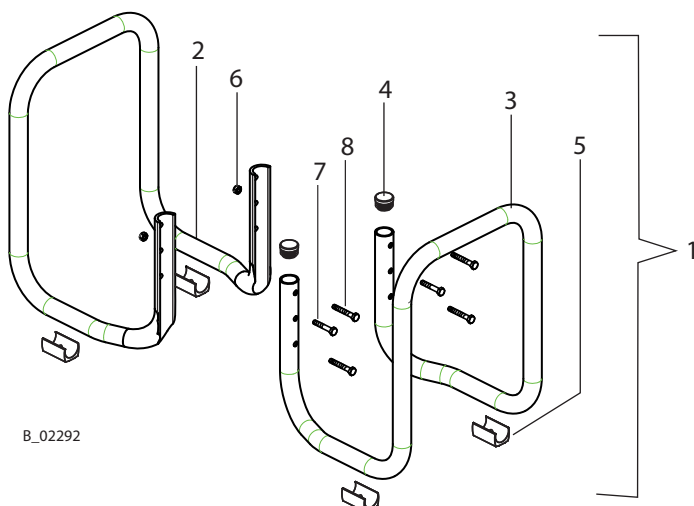
◆ = Wearing parts

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

14.15 COBRA 40-10 FRAME, COMPLETE

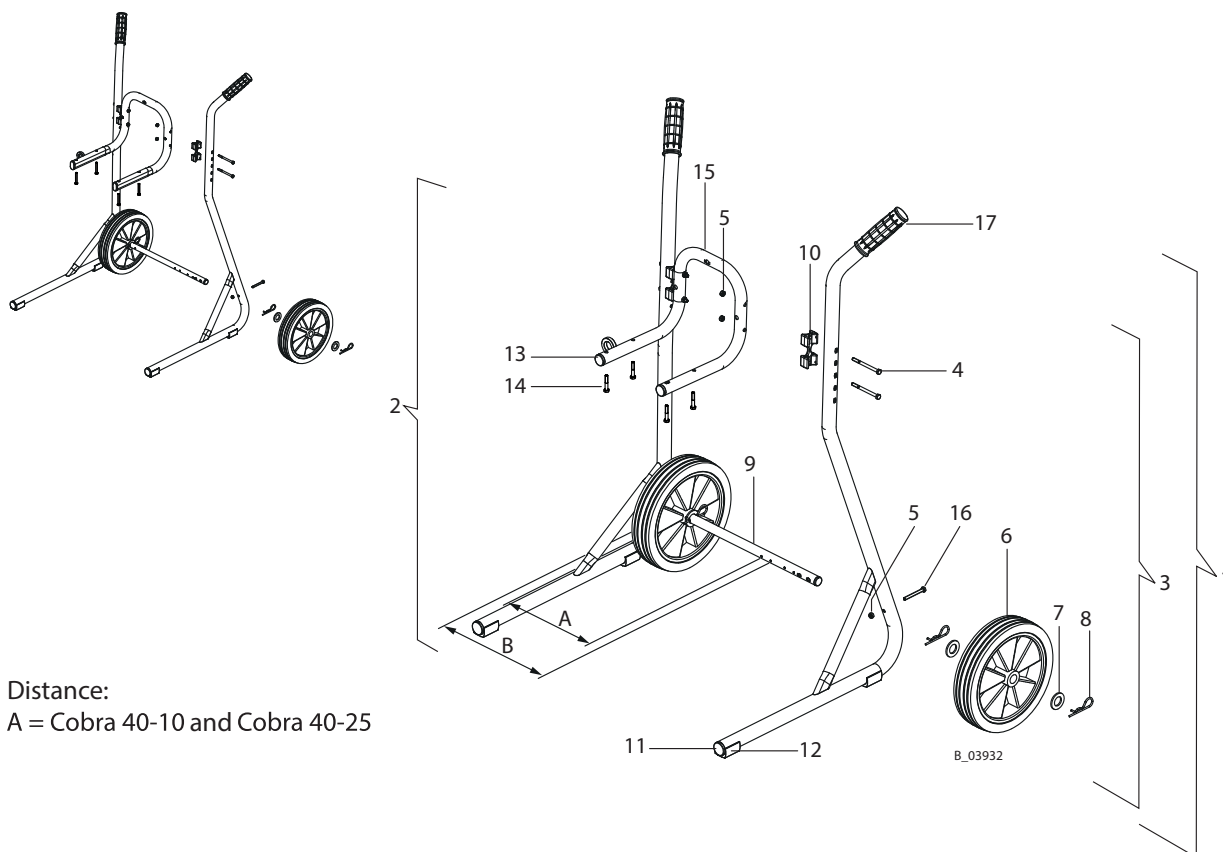
Pos	K	Stk	Order No.	Designation
1		1	322052	Cobra 40-10 frame
2		1	322442	Frame pressed
3		1	322443	Frame pipe
4		2	9990861	Plug
5	◆	4	9999209	Saddle feet for round tubes
6		2	9910204	Self-locking hexagon nut, M6
7		2	9900202	Hexagon screw M6x40
8		4	9900126	Hexagon screw M6x45

◆ = Wearing part

**14.16 COBRA 40-25 FRAME, COMPLETE**

Pos	K	Stk	Order No.	Designation
1		1	2308732	Cobra 40-25 frame
2		1	-	Frame pressed
3		1	-	Frame pipe
4		2	9990861	Plug
5	◆	4	9999209	Saddle feet for round tubes
6		2	9910204	Self-locking hexagon nut, M6
7		2	9900202	Hexagon screw M6x40
8		4	9900126	Hexagon screw M6x45

◆ = Wearing part

14.17 TROLLEY

Distance:

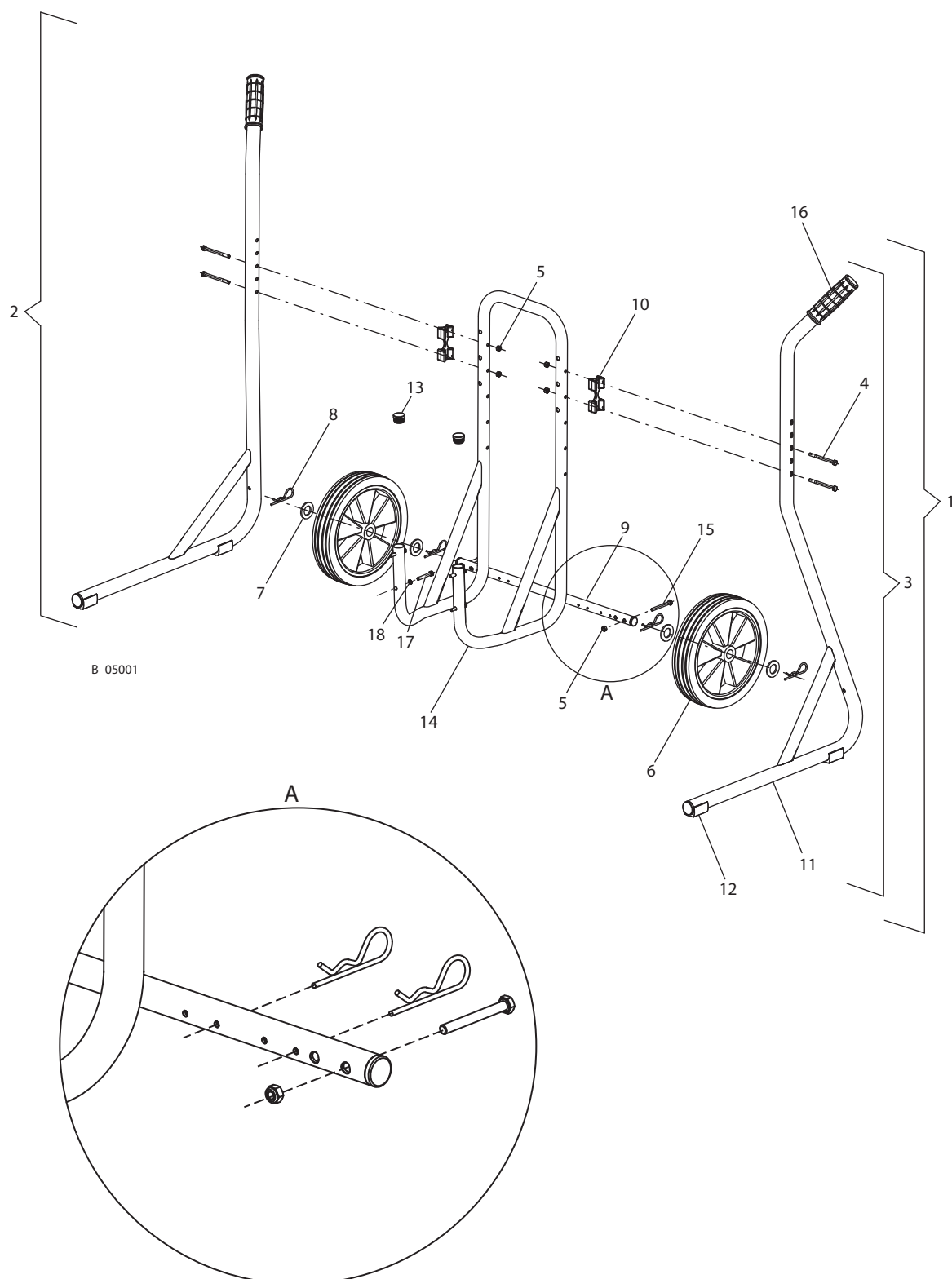
A = Cobra 40-10 and Cobra 40-25

Pos	K	Stk	Order No.	Designation
1		1	2325901	Trolley, complete
2		1	--	Frame, left, 4"-6" (welded)
3		1	--	Frame, right, 4"-6" (welded)
4		4	9907140	Hexagon screw DIN931 M6x75
5		6	9910204	Self-locking hexagon nut, M6
6	◆	2	2304440	Wheel, D250
7		4	340372	Washer
8		4	9995302	Cotter pin
9		1	--	Wheel axle 4"-6"
10	◆	2	367943	Connecting part 4"-6"
11		2	--	Tube plug, ribbed
12	◆	2	9998685	Saddle feet for round tubes
13		2	--	Plug
14		4	9900218	Hexagon screw
15		1	2332143	Wall mount
16		2	3061695	Hexagon screw without shaft M6x55
17	◆	2	9998747	Handle
18		1	2329546	Assembly manual of trolley

◆ = Wearing parts

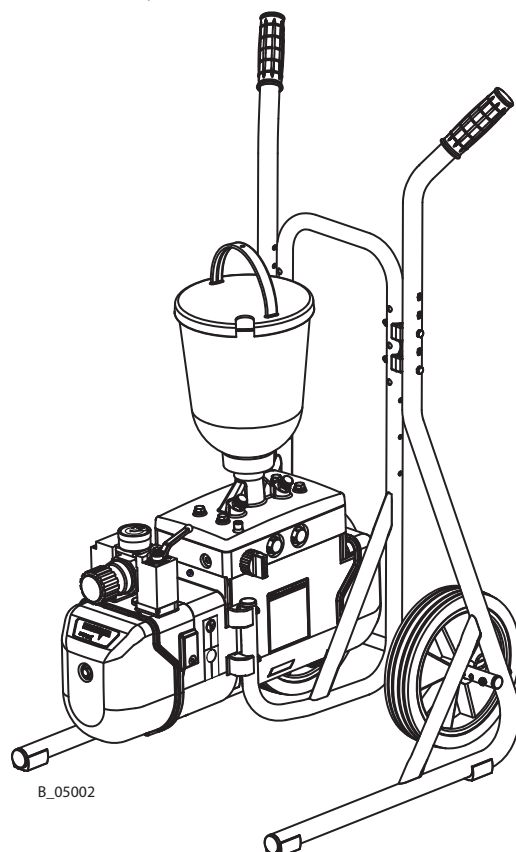
14.18 COBRA TROLLEY HORIZONTAL**Axle setting**

Cobra trolley



Pos	K	Stk	Name	Order No.
1		1	Cobra trolley complete	2341375
2		1	Frame, left 4"-6"	-
3		1	Frame, right 4"-6"	-
4		4	Hexagon screw	9907140
5		6	Self-locking hexagon nut, M6	9910204
6	◆	2	Wheel, D250	2304440
7		4	Washer	340372
8		4	Cotter pin	9995302
9		1	Wheel axle 4"-6" complete	-
10	◆	2	Connecting part 4"-6"	367943
11		2	Tube plug, ribbed	-
12	◆	4	Saddle feet for round tubes	9998685
13		2	Plug	-
14		1	Frame pipe long	-
15		2	Hexagon screw without shaft	3061695
16	◆	2	Handle	9998747
17		4	Hexagon screw M6x40	3051666
18		4	Serrated lock washer, externally toothed	9922017
19		1	Assembly manual of Cobra trolley horizontal	2341412

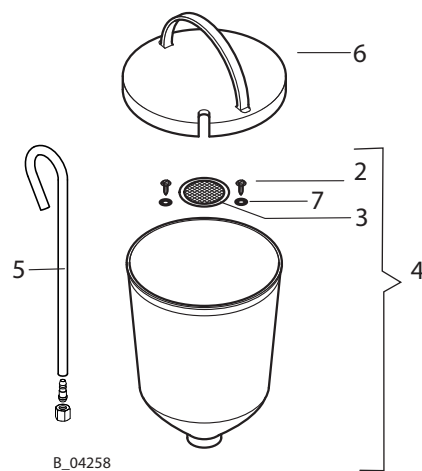
◆ = Wearing parts

Trolley and pump fitted

14.19 HOPPER, COMPLETE

Pos	K	Stk	Order No.	Designation
1	◆	1	2344505	Hopper set Ex, 5 L; 1.3 gal
2		2	9902313	Cylinder self-tapping screw
3	◆	1	3756	Filter disk, mesh 0.4 mm; 0.02 inch
3a	◆	1	37607	Filter disk, mesh 0.8 mm; 0.03 inch
4	◆	1	340265	Hopper Ex
5	◆	1	2333163	Relief tube 5 L, complete
6	◆	1	340429	Cover
7		2	9920314	Washer

◆ = Wearing part



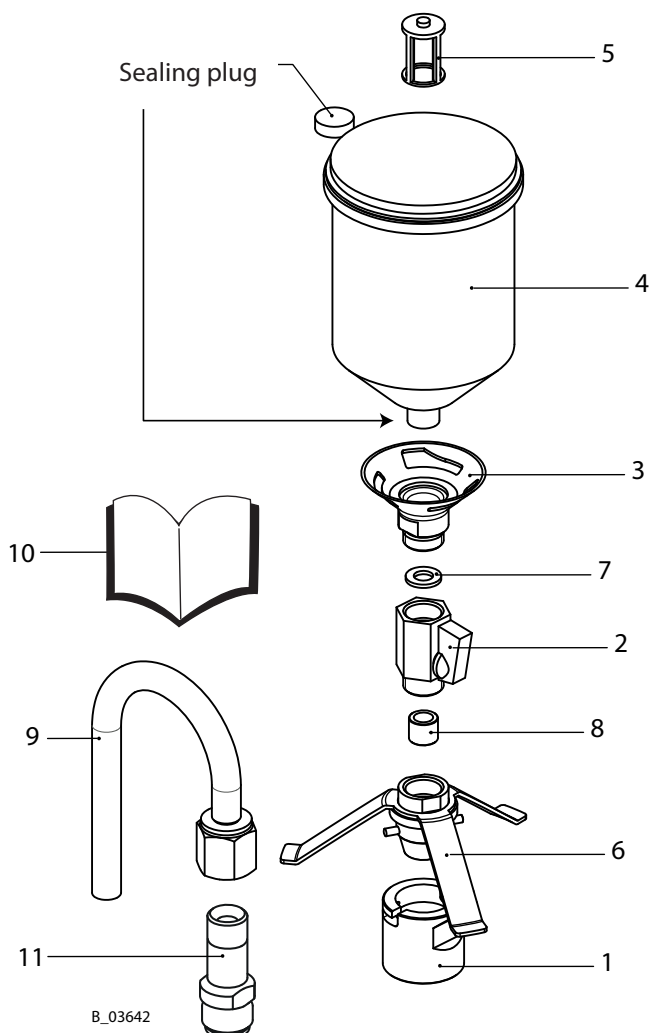
14.20 SMALL QUANTITY CUP

Pos	K	Stk	Order No.	Designation
		1	2321424	Small quantity cup
1		1	2320844	Union nut with bayonet
2	◆	1	2321426	Low-pressure mini ball valve G1/2
3	◆	1	2320841	Gravity feed cup adapter HSM
4	◆	2	2321427	Gravity feed cup SPA easy line TA
5	◆	2	2321676	Sieve insert SPA easy line
6		1	2320888	Cone connector preassembled
7	◆	1	2320870	Sealing washer
8	◆	1	2320922	Sealing sleeve
9	◆	1	2322857	Relief tube 0.5 L, complete
10		1	2322671	Assembly Manual
* 11		1	2330810	Connection piece

◆ = Wearing part

*** Replace for the following pumps:**

- Cobra 40-10 with date of product before November 2013
- Cobra 40-25 with date of product before January 2014



14.21 2L TANK

Pos	K	Stk	Order No.	Designation
		1	2344741	2L Cobra tank
1		1	2320844	Union nut with bayonet
2	◆	1	2321426	Low-pressure mini ball valve G1/2
3		1	2341277	2 l tank
4		1	2341532	Cover
5	◆	2	2321676	Sieve insert SPA easy line
6		1	2320888	Cone connector preassembled
7		1	9990623	Protection plug
8	◆	1	2320922	Sealing sleeve
9	◆	1	2333163	Exhaust pipe 2L / 5L assy.
10		1	2347181	Assembly Manual
* 11		1	2330810	Connection piece

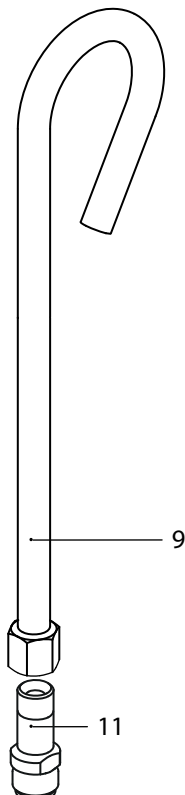
◆ = Wearing part

*** Replace for the following pumps:**

- Cobra 40-10 with date of product before November 2013

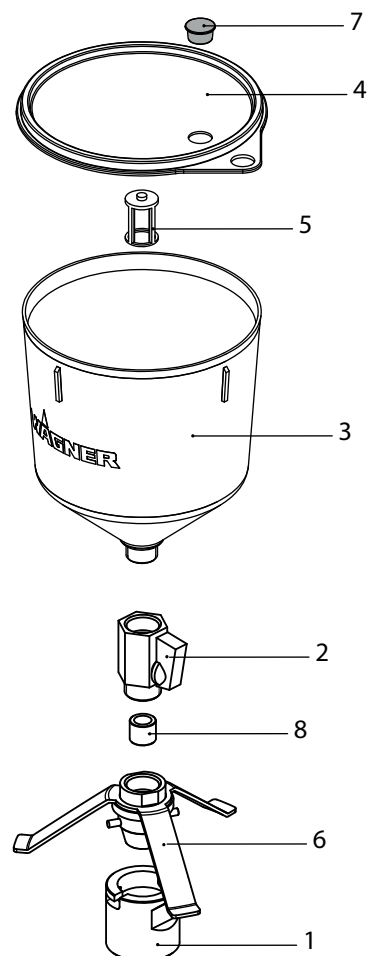


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B_05018

15 WARRANTY AND CONFORMITY DECLARATIONS

15.1 IMPORTANT NOTES REGARDING PRODUCT LIABILITY

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

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

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

15.2 WARRANTY CLAIM

Full warranty is provided for this device:

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

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

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

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

Abrasive coating products such as red lead, emulsions, glazes, liquid abrasives, zinc dust paints and so forth reduce the service life of valves, packings, spray guns, nozzles, cylinders, pistons etc. Signs of wear traced back to these products 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.

15.3 CE DECLARATION OF CONFORMITY

We hereby declare that the supplied version of diaphragm pumps and spray packs:

Cobra 40-10
Cobra 40-25

complies with the following guidelines:

2006/42/EC
94/9/EC (ATEX Directive)



Applied standards, in particular:

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

Applied national technical standards and specifications, in particular:

BGR 500 Part 2 Chapter 2.29 and Chapter 2.36	TRBS 2153
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Identification:



CE Certificate of Conformity

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

Order number: 2302350

15.4 NOTES ON GERMAN REGULATIONS AND GUIDELINES

- a) BGR 500 Part 2, Chapter 2.36 "Working with Liquid Ejection Devices"
- b) BGR 500 Part 2, Chapter 2.29 "Working with Coating Products"
- c) BGR 104 Explosion protection rules
- d) TRBS 2153 Avoiding ignition risks
- e) BGI 740 Painting rooms and equipment
- f) ZH 1/406 Guidelines for liquid ejection devices

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



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