WAGNER

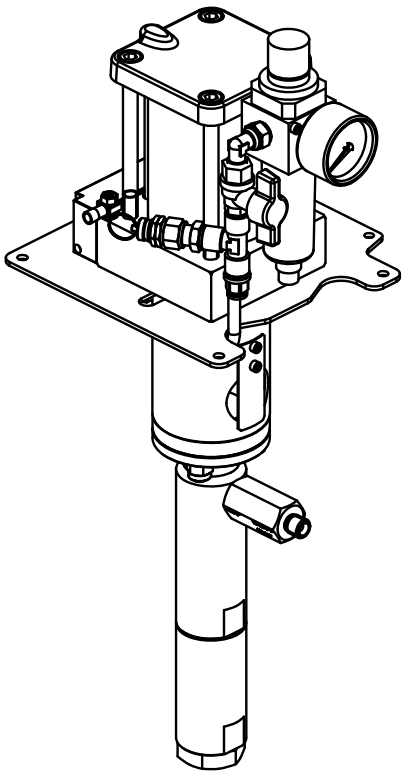
Translation of the original
Operating Manual

FineFinish
40 - 15 S / 20 - 30 S

Edition 07/2011

Piston pump

Volume 15 cc – 30 cc



CE

Ex II 2G IIB T3

Contents

Contents

1 ABOUT THESE INSTRUCTIONS

This operating manual contains information about the operation, repair and maintenance of the unit.

→ Always follow these instructions when operating the unit.

1.1 LANGUAGES

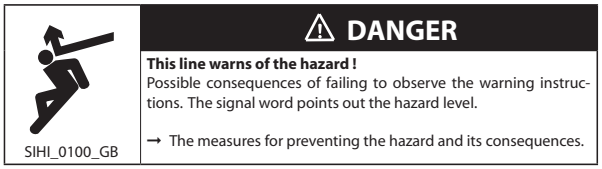
This operating manual is available in the following languages:

Language:	Part No.	Language:	Part No.
German	2310798	English	2310799
French	2310800	Dutch	2310801
Italian	2310802	Spanish	2310803
Danish	2310805	Swedish	2310806
Portuguese	2310804	Turkish	--

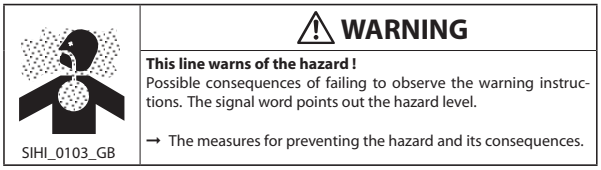
1.2 WARNINGS, NOTES AND SYMBOLS IN THESE INSTRUCTIONS

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

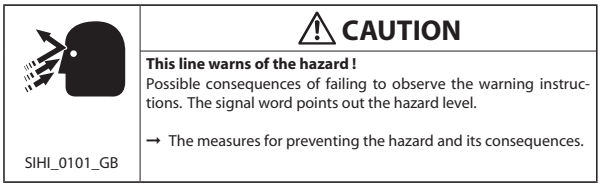
Danger - imminent danger. Non-observance will result in death, serious injury and serious material damage



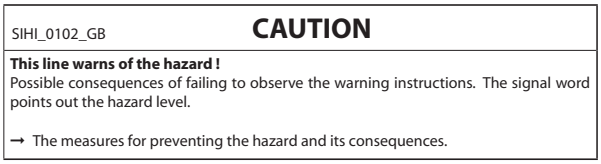
Warning - possible danger. Non-observance can result in death, serious injury and serious material damage.



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



Caution - a possibly hazardous situation. Non-observance can cause material damage.



Note - provide information on particular characteristics and how to proceed.

2 GENERAL SAFETY INSTRUCTIONS

2.1 SAFETY INSTRUCTIONS FOR THE OPERATOR

→ Keep these operating instructions to hand near the unit at all times.
→ Always follow local regulations concerning occupational safety and accident prevention.

2.1.1 ELECTRICAL EQUIPMENT

Electrical plant and unit
→ 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 put out of operation 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.

2.1.2 PERSONNEL QUALIFICATIONS

→ Ensure that the unit is operated and repaired only by trained persons.

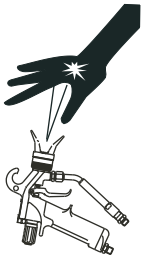
2.1.3 A SAFE WORK ENVIRONMENT

→ Ensure that the floor of the working area is anti-static in accordance with EN 50053 Part 1 §7-2.
→ Ensure that all persons within the working area wear anti-static shoes, e.g. shoes with leather soles.
→ Ensure that during spraying, persons wear anti-static gloves so that they are earthed via the handle of the spray gun.
→ Customer to provide paint mist extraction systems conforming to local regulations.
→ Ensure that the following components of a safe working environment are available:
– Material/air hoses adapted to the working pressure
– Personal safety equipment (breathing and skin protection)
→ Ensure that there are no ignition sources such as naked flame, glowing wires or hot surfaces in the vicinity. Do not smoke.

2.2 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.

2.2.1 SAFE HANDLING OF WAGNER SPRAY UNITS



The spray jet is under pressure and can cause dangerous injuries.
Avoid injection of paint or cleaning agents:

- → Never point the spray gun at people.
- → Never reach into the spray jet.
- → Before all work on the unit, in the event of work interruptions and functional faults:
  - – Switch off the energy/compressed air supply
  - – Secure the spray gun against actuation.
  - – Relieve the pressure from the spray gun and unit.
  - – By functional faults: If possible, remove the defect as described in chap. „Trouble shooting“, otherwise apply to an authorised after-sale service point.

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

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

Avoid danger of injury through recoil forces:

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

2.2.2 EARTH THE UNIT

Electrostatic charges can occur on the unit due to the electrostatic charge and the flow speed involved in spraying. These can cause sparks and flames upon discharge.

- → Ensure that the unit is earthed for every spraying operation.
- → Earth the workpieces to be coated.
- → Ensure that all persons inside the working area are earthed, e.g. that they are wearing antistatic shoes.
- → When spraying, wear antistatic shoes to earth yourself via the spray gun handle. If gloves are used, they must be antistatic

2.2.3 MATERIAL HOSES

- → Ensure that the hose material is chemically resistant to the sprayed materials.
- → Ensure that the material hose is suitable for the pressure generated in the unit.
- → Ensure that the following information is visible on the high-pressure hose:
  - – Manufacturer
  - – Permissible operating overpressure
  - – Date of manufacture.
- → The electrical resistance of the complete high-pressure hose must be less than 1 MOhm.

2.2.4 CLEANING

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

An explosive gas/air mixture forms in closed containers.
→ When cleaning units with solvents, never spray into a closed container.
→ Earth the container.

2.2.5 HANDLING HAZARDOUS LIQUIDS, VARNISHES AND PAINTS

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

2.2.6 TOUCHING HOT SURFACES

→ Touch hot surfaces only if you are wearing protective gloves.
→ When operating the unit with a coating material with a temperature of >43°C; 109.4°F:
- Identify the unit with a warning label that says„Warning - hot surface“.

Order No.
9998910 Information label
9998911 Safety label

2.3 CORRECT USE

WAGNER accepts no liability for any damage arising from incorrect use.
→ Use the unit only to work with the materials recommended by WAGNER.
→ Operate the unit only as an entire unit.
→ Do not deactivate safety equipment.
→ Use only WAGNER original spare parts and accessories.

2.4 USE IN AN EXPLOSION HAZARD AREA

2.4.1 CORRECT USE

The unit is suitable for working liquid materials in accordance with the classification into explosion classes.

2.4.2 EXPLOSION PROTECTION IDENTIFICATION

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

CE Ex II 2G IIB T3

CE: Communautés Européennes
Ex: Symbol for explosion protection
II: Unit class II
2: Category 2 (Zone 1)
G: Ex-atmosphere gas
IIB: Explosion class
T3: Temperature class: maximum surface temperature < 200°C; 392°F.

2.4.3 MAX. SURFACE TEMPERATURE

Max. surface temperature:	same as the permissible material temperature
Permissible ambient temperature:	see under Technical data, Section 4.3.2

2.4.4 SAFETY REGULATIONS

Safe handling of WAGNER spray units

The maximum surface temperature of the piston pump can be reached if it runs dry.
→ Ensure that the piston pump is filled with sufficient working or cleaning medium.
→ Ensure that the separating agent container is filled with sufficient separating agent.

Mechanical sparks can form if the unit comes into contact with metal.
In an explosive atmosphere:
→ Do not knock or push the unit against steel or rusty iron.
→ Do not drop the unit.
→ Use only tools that are made of a permitted material.

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

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

Surface spraying, electrostatic

→ Do not spray unit parts with electrostatic (e.g. electrostatic spray gun).

Cleaning

If there are deposits on the surfaces, the unit may form electrostatic charges. Flames or sparks can form if there is a discharge.

→ Remove deposits from the surfaces to maintain conductivity.

→ Use only a damp cloth to clean the unit.

3 PRODUCT LIABILITY AND WARRANTY

3.1 IMPORTANT NOTES ON PRODUCT LIABILITY

As a result of an EC regulation, effective as from January 1, 1990, the manufacturer shall only be liable for his product if all parts come from him or are approved by him, and if the devices are properly fitted , operated and maintained.
If other makes of accessory and spare parts are used, the manufacturer's liability could be fully or partially null and void.
The usage of original WAGNER accessories and spare parts guarantees that all safety regulations are observed.

3.2 WARRANTY

(Status 01.02.2009)

1. Scope of guarantee

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

2. Guarantee period and registration

The guarantee period amounts to 36 months. For industrial use or equal wear, such as shift operations in particular, or in the event of rentals it amounts to 12 months.
Systems driven by petrol or air are also guaranteed for a 12 month period.
The guarantee period begins with the day of delivery by the authorised specialist shop. The date on the original purchase document is authoritative.
For all products bought in authorised specialist shops from 01.02.2009 the guarantee period is extended to 24 months providing the buyer of these devices registers in accordance with the following conditions within 4 weeks of the day of delivery by the authorised specialist shop.
Registration can be completed on the Internet under www.wagner-group.com/profi-guarantee. The guarantee certificate is valid as confirmation, as is the original purchase document that carries the date of the purchase. Registration is only possible if the buyer is in agreement with having the data being stored that is entered during registration.
When services are carried out under guarantee the guarantee period for the product is neither extended nor renewed.
Once the guarantee period has expired, claims made against the guarantee or from the guarantee can no longer be enforced.

3. Handling

If defects can be seen in the materials, processing or performance of the device during the guarantee period, guarantee claims must be made immediately, or at the latest within a period of 2 weeks.
The authorised specialist shop that delivered the device is entitled to accept guarantee claims. Guarantee claims may also be made to the service centres named in our operating instructions. The product has to be sent without charge or presented together with the original purchase document that includes details of the purchase date and the name of the product. In order to claim for an extension

to the guarantee, the guarantee certificate must be included.
The costs as well as the risk of loss or damage to the product in transit or by the centre that accepts the guarantee claims or who delivers the repaired product, are the responsibility of the customer.

4. Exclusion of guarantee

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

5. Additional regulations.

The above guarantees apply exclusively to products that have been bought by authorised specialist shops in the EU, CIS, Australia and are used within the reference country.
If the check shows that the case is not a guarantee case, repairs are carried out at the expense of the buyer.
The above regulations manage the legal relationship to us concludingly. Additional claims, in particular for damages and losses of any type, which occur as a result of the product or its use, are excluded from the product liability act except with regard to the area of application.
Claims for liability for defects to the specialist trader remain unaffected.
German law applies to this guarantee. The contractual language is German. In the event that the meaning of the German and a foreign text of this guarantee deviate from one another, the meaning of the German text has priority.

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

3.3 CE-CONFORMITY

Herewith we declare that the supplied version of:
Pneumatic pumps and Spraypacks with article no.

Mod. 20-30	Mod. 40-15
2309 799	2309 804
2309 800	2309 805
2309 802	
2309 803	

Complies with the following provisons applying to it:

2006/42/EC	94/9/EC Atex	

Applied standards, in particular:

UNI EN ISO 12100-1	UNI EN 809	UNI EN 1127-1
UNI EN ISO 12100-2	UNI EN 14121-1	EN 12621
UNI EN 563	UNI EN ISO 3746	UNI EN ISO 13463

Marking:

CE Ex II 2G IIB T3

EC Certificate of Conformity
The certificate is enclosed with this product. The certificate of conformity can be reordered from your WAGNER representative, quoting the product and serial number.

Part number:

ZDI.16

4 DESCRIPTION

4.1 FIELD OF APPLICATION

4.1.1 USING IN ACCORDANCE WITH THE INSTRUCTIONS

The pneumatic piston pump is suitable for process liquid materials.

CAUTION

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

→ Use suitable pump model (delivery per cycle, material, valves, etc.) see chapter 4.3.2.

→ Verify that fluids and solvents used are compatible with the constrution material of the pump as described in chapter 4.3.1.

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4.2 EXTENT OF DELIVERY

Pneumatic piston pump
consisting of:

- Fluid section
- Air motor
- Connection elements

Separating fluid 250 ccm	Part No.: 9992504
CE-conformity see	Chapter 3
Operating manual in english	Part No.: 2310799
Operating manual for the other language see	Chapter 1

The delivery note shows the exact scope of delivery.
Accessories and spraypacks: see chapter 7.

4.3 DATA

4.3.1 MATERIALS OF THE PARTS TRANSPORTING PAINT

Pump body	Stainless steel
Piston	Stainless steel
Valves balls	Stainless steel
Valves seats	Stainless steel
O-rings	EPDM
Seal packings	PE/ TF

PE = UHMW - PE
TF = (PTFE)

4.3.2 TECHNICAL DATA

Description	Units	40-15	20-30
Transmission ratio		40:1	20:1
Flow volume per double stroke (DS)	cm^3 cc	15	30
Max. operating pressure (Pump)	MPa bar psi	32.0 320 4641	16.0 160 2320
Max. operating pressure (Spraypack)	MPa bar psi	25.0 250 3626	16.0 160 2320
Max. possible strokes in operation	DC/min DS/min	60	60
Min. - Max. air inlet pressure	MPa bar psi	0.2-0.8 2-8 28-116	0.2-0.8 2-8 28-116
Ø air inlet connection (female)	mm Inch	8,0 0.314	8,0 0.314
Min. Ø compressed air hose	mm Inch	9,0 0.354	9,0 0.354
Air consumption (at 0.6 MPa; 6 bar; 87 psi) per DS	nl scf	3,9 0,14	3,9 0,14
Sound pressure level at max. permissible air pressure*	dB(A)	72	72
Sound pressure level at 0.6 MPa; 6 bar; 87 psi air pressure*	dB(A)	69	69
Sound pressure level at 0.4 MPa; 4 bar; 58.01 psi air pressure*	dB(A)	65	65
Ø piston of air motor	mm Inch	80 3.15	80 3.15
Material inlet connection (female)	Inch	G 1/2“	G 1/2“
Material outlet connection (female) (in case of Spraypack version NPSM1/4”)	Inch	G 1/4“	G 3/8“
Weight	kg lb	9,0 19,8	11 24,2
Max. material pressure at pump inlet	MPa bar psi	2 20 90	
Range of material temperature	°C; F	+5° ÷ +80°; (+41 ÷ +176)	
Range of the ambient temperature	°C; F	+5° ÷ +60° ; (+41 ÷ +140)	
Allowable sloping position at work	∢ °	± 10	

* A rated sound pressure level measured at 1m distance according to UNI EN ISO 3746-1997.

⚠ WARNING

Outgoing air containing oil!
Risk of poisoning if inhaled.
Function problem airmotor

→ Provide water-free and oil-free compressed air (quality standard 5.5.4 as per ISO 8573.1) 5.5.4 = 40 µm / +7 / 5 mg/m³.

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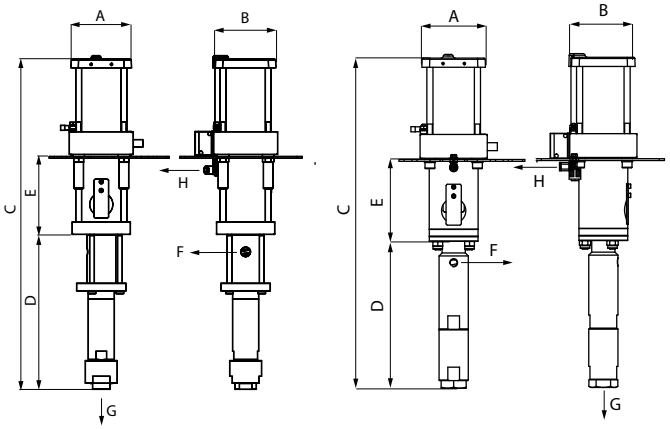
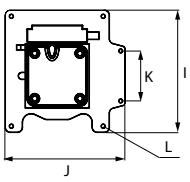
4.3.3 DIMENSIONS AND CONNECTIONS

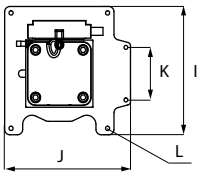
	20-30 mm; inch	40-15 mm; inch		20-30 mm; inch	40-15 mm; inch
A	104; 4.09	104; 4.1	M	ø9; ø0.4	ø9; ø0.4
B	108.5; 4.27	108,5; 4.3	N	38.3; 1.5	38.3; 1.5
C	574; 22.59	680; 26.77	O	80; 3.2	80; 3.2
D	266.5; 10.49	335; 13.18	P	189; 7.4	189; 7.4
E	134; 5.27	160; 6.29	-		-
F	G 3/8“	G 1/4“	-		-
G	G 1/2“	G 1/2“	-		-
H	ø8; ø0.31	ø8; ø0.31	-		-
I	210; 8.3	210; 8.3	-		-
J	206; 8.1	206; 8.1	-		-
K	86;3.4	86;3.4	-		-
L	ø7; ø0.28	ø7; ø0.28	-		-



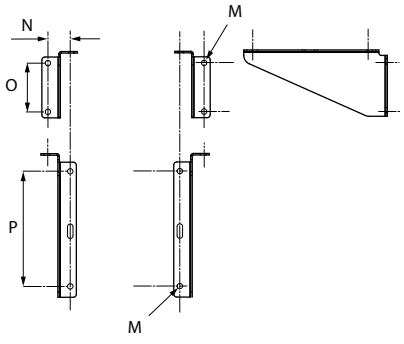
20-30



40-15



Mounting for wall for
20 - 30, 40 - 15



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4.3.4 FLOW VOLUME

Wagner nozzle AL			Volume flow in l/min; cc/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	40 - 15
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	20 - 30
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	

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* Flow volume refers to water.

Maximum ranges for continuous operation at 50 DS/min.

4.3.5 PERFORMANCE DIAGRAMS

Example

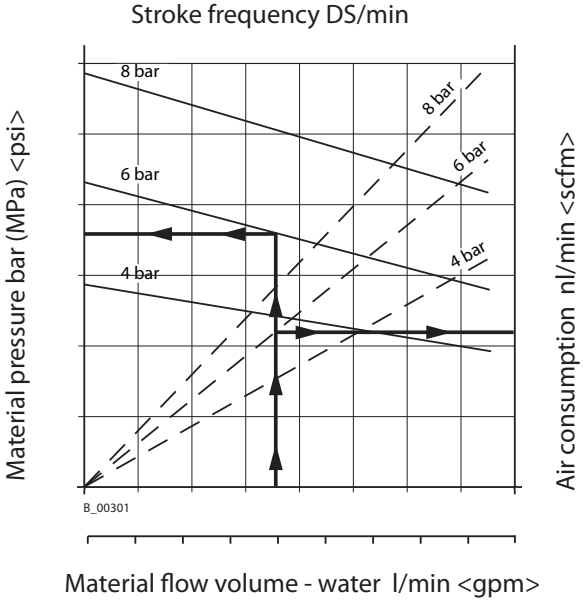
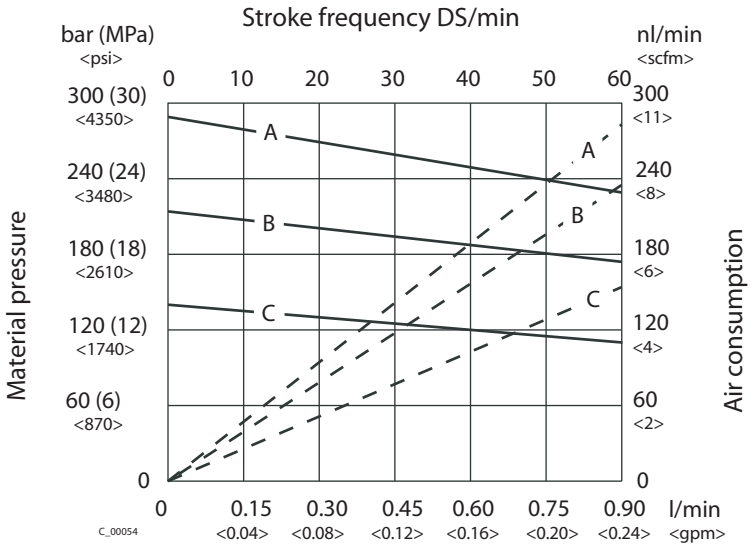


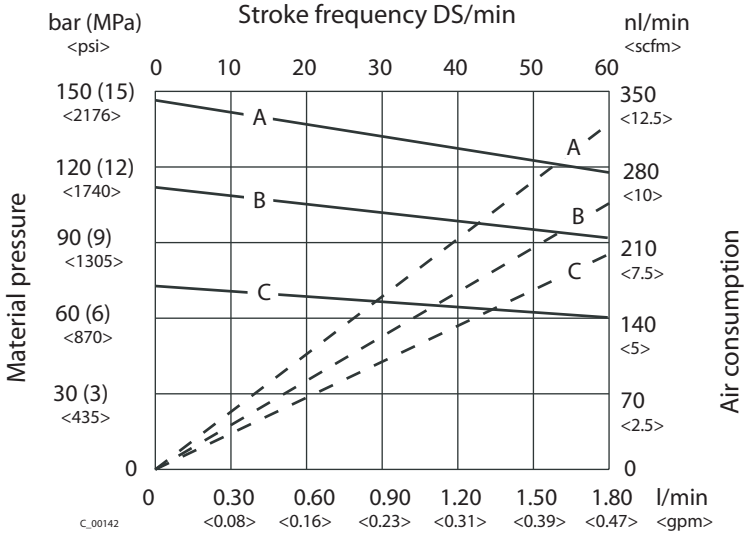
Diagram EvoMotion 40 - 15 Stainless steel



Material flow volume - water

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

Diagram EvoMotion 20 - 30 Stainless steel



Material flow volume - water

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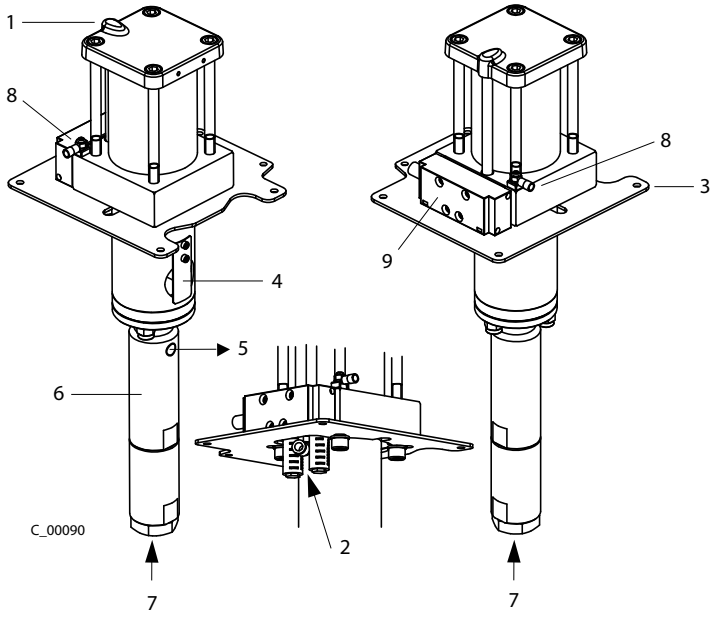
4.4 FUNCTIONING

4.4.1 PUMP

1 Air motor
2 Air Inlet
3 Mounting flange
4 Separating fluid cup
5 Material outlet
6 Fluid section
7 Material inlet
8 Earthing connection
9 Reversing valve



General information
The piston pump is driven with compressed air. This compressed air moves up and down the air piston in the air motor (1) and thus also the pump piston in the fluid section (6). After each stroke, the flow of compressed air is reversed through the reversing valve (9). Working materials are sucked in on the upward stroke and simultaneously conveyed to the gun in both strokes.

Air motor (1)
The pneumatic motor must be powered at a pressure not exceeding the value given on the plate. Each component linked to the pump outlet must have an operating pressure equal to or higher than the pressure generated by the pump itself. This final pressure is given on the plate both for bare pumps and for Spraypack versions.
The Spraypack version is equipped with a safety valve installed on the air supply unit with the aim to limit the max. pressure of compressed air into the pump motor.

⚠ WARNING

Overpressure!
Risk of injury from bursting components.

→ Never change the safety valve setting.

SIHI_0026_GB

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

4.4.2 PRESSURE REGULATOR

1 Pressure regulator
2 Ball valve
3 Control air gauge
4 Aircoat air gauge (option)
5 Compressed air connection
6 Pressure regulator Aircoat (option)
7 Motor safety and depressurization valve

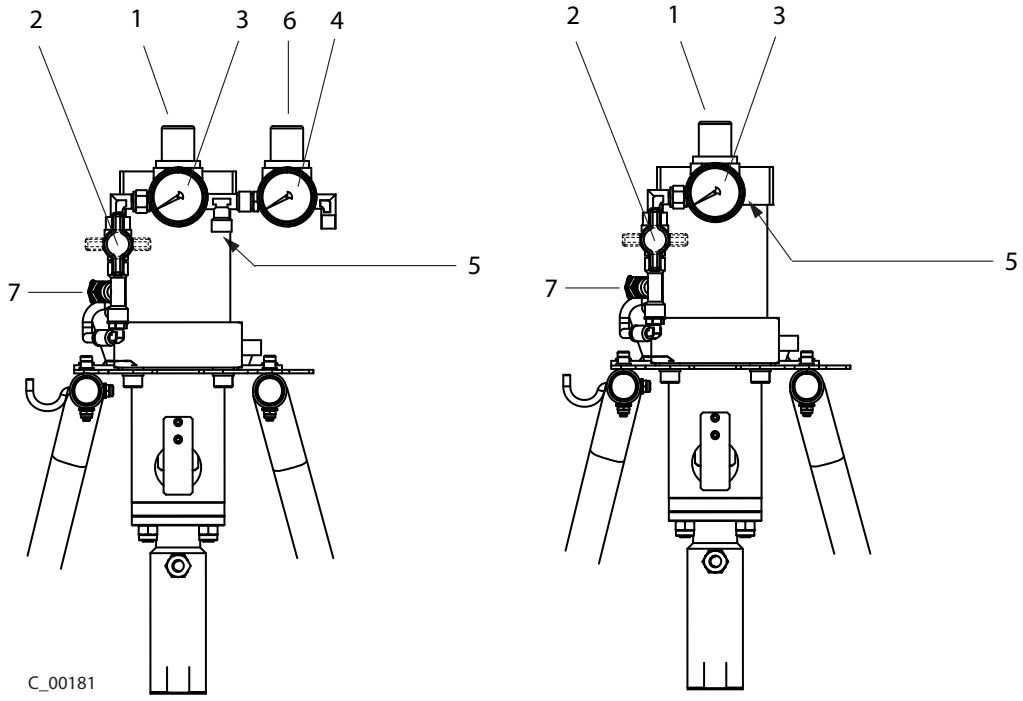
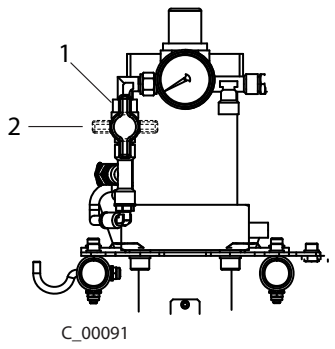


Figure: Pump 40 - 15

Settings ball valve:

1 Open: Work position
2 Closed: The air motor can still be under pressure.



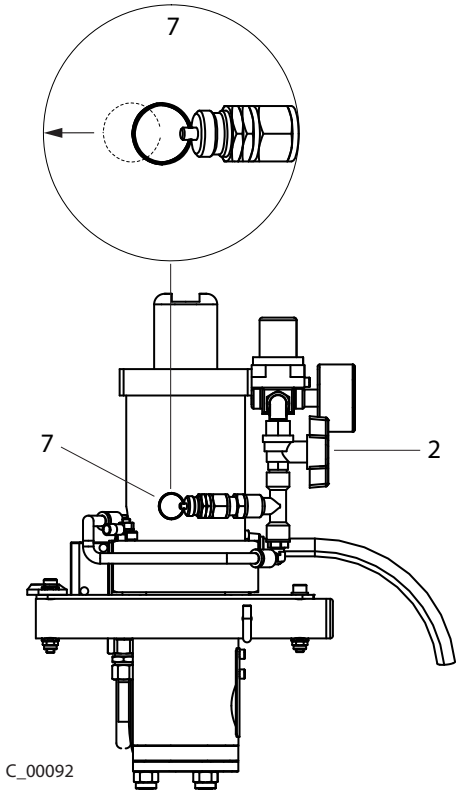
4.4.2.1 MOTOR SAFETY AND DEPRESSURIZATION VALVE

Safety valve (7)
Besides having the aim to limit the max. inlet pressure of compressed air into the pump motor, the safety valve (7) also serves as a depressurizing valve for the motor. To depressurize the motor, just pull the dedicated exhaust ring with closed ballcock (2).

The ring on the safety valve also allows to check the good performance of the valve itself.

Use the safety valve ring to depressurize the pneumatic motor, in addition to the pressure outlet procedure on the liquid.

Depressurize the pneumatic motor before any disassembly or maintenance work.



C_00092

⚠WARNING

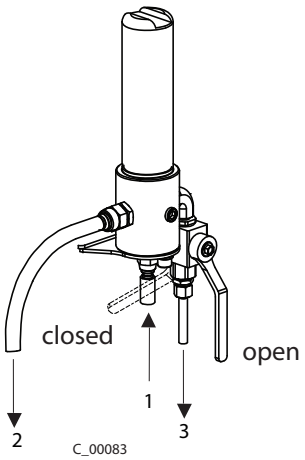
Overpressure!
Risk of injury from bursting components.

→ Frequently check the safety valve efficiency by pulling the ring.

SIHC_0026_GB

4.4.3 ANTI-PULSATOR TANK WITH FILTER AND RECIRCULATION VALVE (WHERE FORESEEN)

1 Fluid section connection
2 High-pressure material outlet
3 Return



C_00083

5 STARTING UP AND OPERATING

5.1 INSTALLATION AND CONNECTION

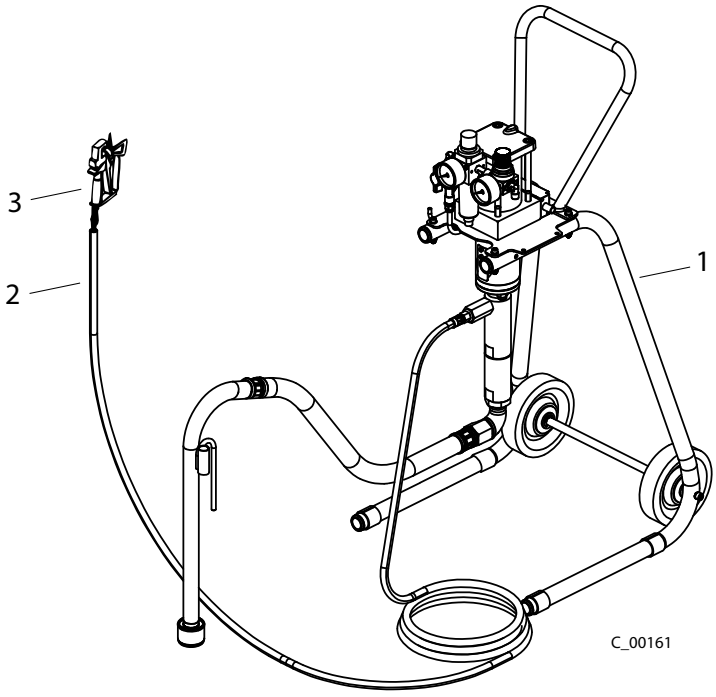
5.1.1 SET UP THE PUMP

a) Models without recycle kit

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 spraypack.
The nozzles must be selected according to the gun instructions.

Procedure:

1. Mount the pump onto a basement (1), a trolley or wall plate.
2. Connect the high-pressure flexible hose (2) to the spray gun (3) as described in the pertaining directions for use.



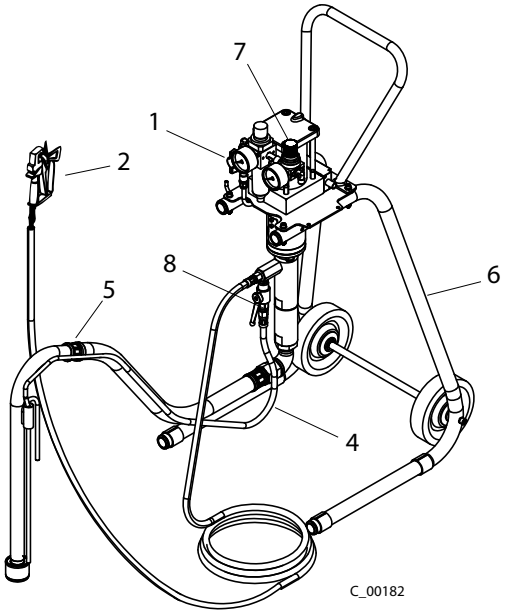
⚠	**⚠ WARNING**
	Inclined surface! Risk of accidents if the unit rolls away/falls. → Position the carriage with the piston pump horizontally. → If the surface is inclined, position the feet of the carriage towards the gradient. → Secure the carriage.

SIHI_0012_GB

b) Models with recycle kit

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 spraypack.
The nozzles must be selected according to the gun instructions.

Procedure:
1. Mount the pump onto a basement (6), a trolley or wall plate.
2. For Aircoat system: fit the additional pressure regulator (7) (optional).
3. Mount the high-pressure antipulsator-tank (3) (optional).
4. Mount the suction system (5).
5. Mount the return flexible hose (4).
6. Connect the high-pressure flexible hose to the spray gun (2) as described in the pertaining directions for use.



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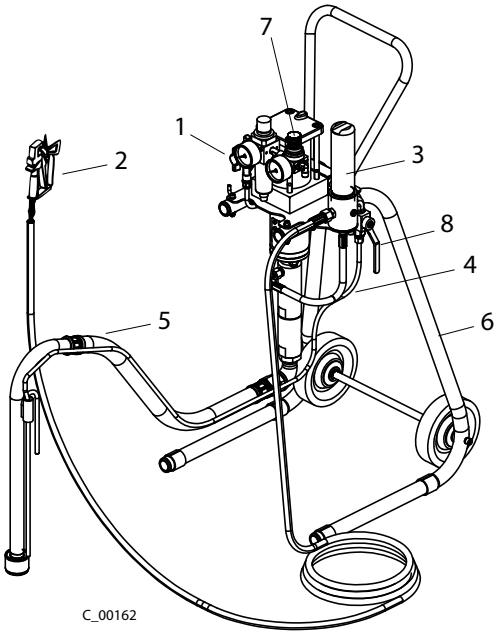


C_00162

	⚠ WARNING
	Inclined surface! Risk of accidents if the unit rolls away/falls. → Position the carriage with the piston pump horizontally. → If the surface is inclined, position the feet of the carriage towards the gradient. → Secure the carriage.

SIHI_0012_GB

5.1.2 EARTHING

⚠WARNING

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

→ Clean the piston pump only with a damp cloth.

SIHI_0041_GB

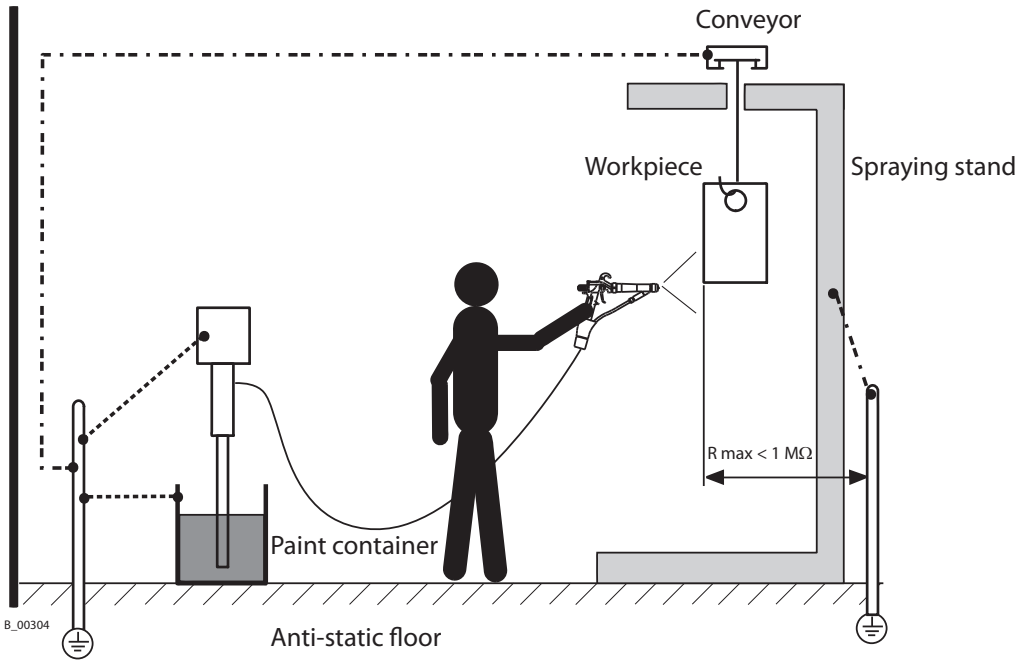
⚠WARNING

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

→ Earth all unit components.
→ Earth the workpieces being painted.

SIHI_0003_GB

Earthing schema (example)

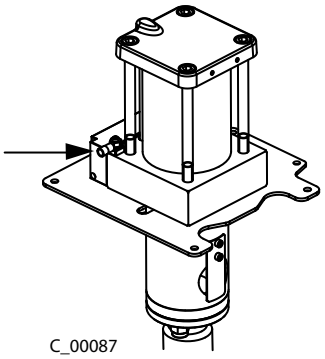


Cable cross sections

Pump	4 mm^2; AWG 11
Paint container	6 mm^2; AWG 10
Conveyor	16 mm^2; AWG 5
Spraying booth	16 mm^2; AWG 5
Spraying stand	16 mm^2; AWG 5

Procedure:

1. Screw on earthing cable with eye.
2. Clamp the earthing cable clip to a earth connection on site.
3. Earth the material (paint) container to a local earth connection.
4. Earth the other parts of the system to a local earth connection.

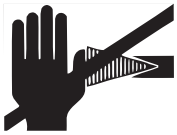


C_00087

5.2 START UP

5.2.1 SAFETY REGULATIONS

Every time before starting up the following points should be observed as laid down in the operating instructions:
- That it is possible to observe the safety regulations in Chap. 2.
- The starting up procedure, has been carried out 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.

SIHI_0016_GB

⚠WARNING

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

→ Operate the unit in a spraying booth approved for the working materials.
-or-
→ Operate the unit on an appropriate spraying wall with the ventilation (extraction) switched on.
→ Observe national and local regulations for the outgoing air speed.

SIHI_0028_GB

⚠WARNING

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

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

SIHI_0025_GB

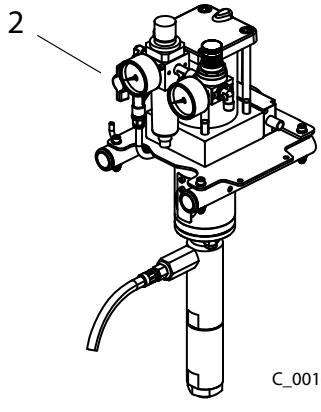
Before every start-up, the following points should be observed as laid down in the operating manual:
- Secure gun with safety catch
- Check the permissible pressures
- Check all connections for leaks
- Check hose for damage

It should be ensured that the unit 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 safety catch.
- The air supply should be interrupted

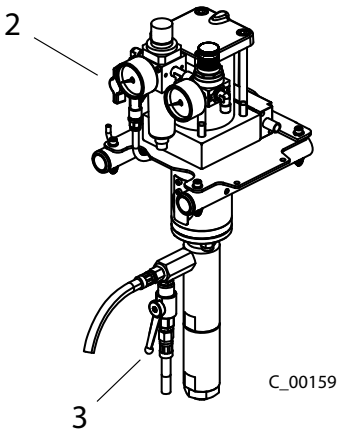
Emergency stop
In the case of unforeseen occurrences close immediately the ball valve (2) and depressurise the pump using the gun or the recycling cock (3) (only in models with recycle kit).

closed 

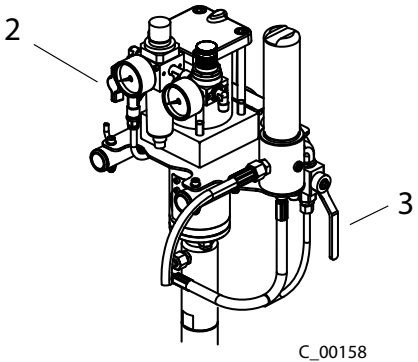
open 



Without recycle kit



With recycle kit



With antipulsator/filter and recycle kit

5.2.2 FILLING SEPARATING FLUID

CAUTION

Piston pump dry run!
High wear/damage to the packages.
Paint or solvent can escape if the seals are dry.

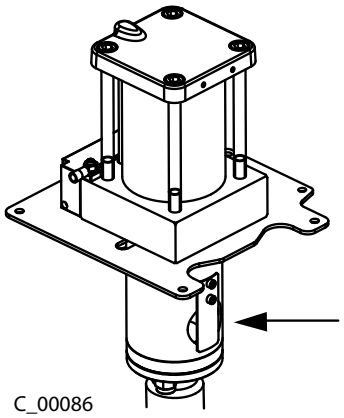
→ Ensure that the separating agent container is filled with sufficient separating agent. Filling level 1 cm; 0.4 in under the pot edge.

SIHC_0018_GB

Pour the supplied release agent into the slot dedicated to house it.

Filling level : 1 cm; 0.4 inch under the pot edge
Separating fluid: see accessories table

Note
When preparation has taken place the max. allowed leaning angle of the pumpe is ± 30° for moving, transport, etc.
During operation the pump must be in vertical position.

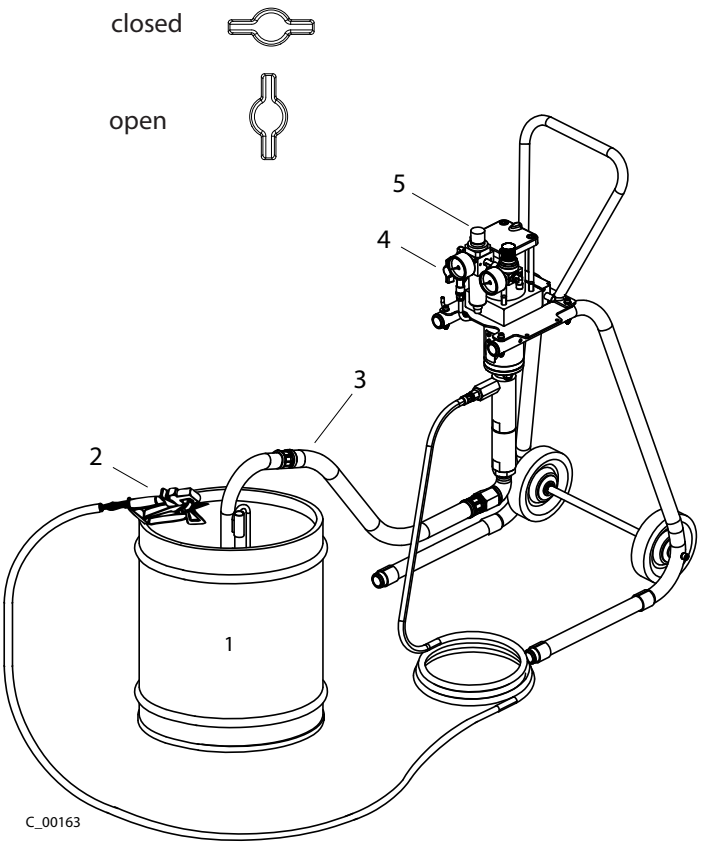


C_00086

5.2.3 BASIC WASHING

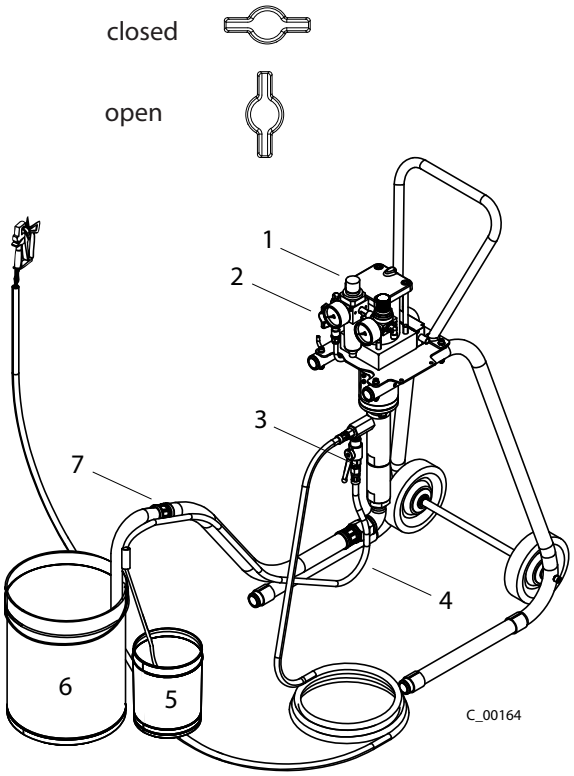
a) Models without recycle kit

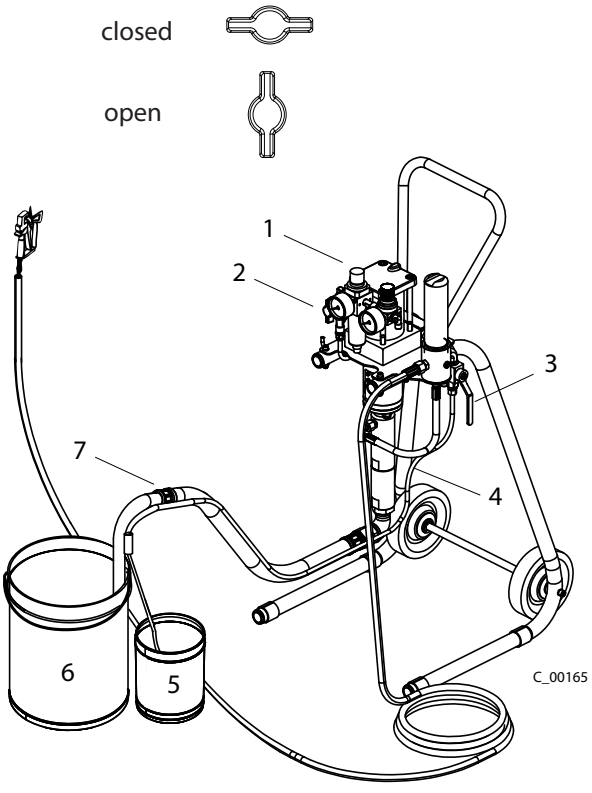
1. Remove nozzle from gun. Refer to gun manual.
2. Place suction hose (3) in container of detergent (1).
3. Slowly open the ball valve (4).
4. Adjust the pressure regulator (5) until the pump starts working.
5. Direct the spray gun without nozzle towards the container (1).
   Warning: risk of material's sprayback! Protect body and eyes!
   Continue washing the system until gun sprays clean detergent.
6. Close the ball valve (4) and depressurize the motor by pushing the gun trigger directing it without nozzle towards the container (1).
7. When the system is depressurized, close the spray gun.
8. Secure the spray gun.
9. Dispose of the container (1) content in compliance with the local regulations.



b) Models with recycle kit

1. Place the empty container (5) under the return hose (4).
2. Place the suction flexible hose (7) inside the container with the detergent (6).
3. Open the return valve (3).
4. Slowly open the ball valve (2).
5. Adjust the pressure regulator (1) until the pump starts working.
6. Continue washing the system until the container (5) fills with clean detergent.
7. Close the ball valve (2).
8. Close the return valve (3).
9. Direct the spray gun without nozzle towards the container (5) and push the trigger.
10. Slowly open the ball valve (2).
11. Continue washing the system until gun sprays clean detergent.
12. Close the ball valve (2) and depressurize the motor either by opening the return valve (3) or by pushing the gun trigger directing it without nozzle towards the container (5).
13. When the system is depressurized, close the spray gun.
14. Secure the spray gun.
15. Dispose of the container (5) content in compliance with the local regulations.

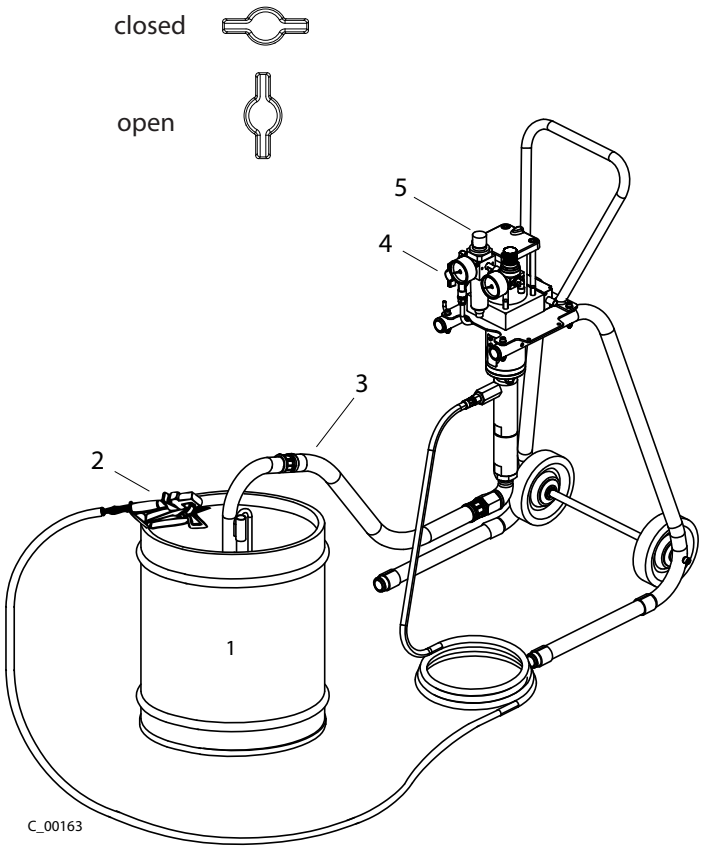




5.2.4 FILLING WITH WORKING MATERIAL

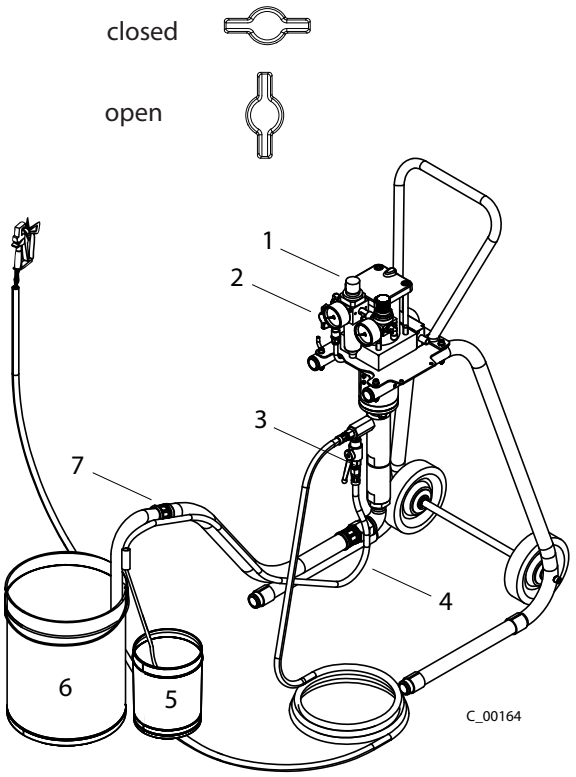
a) Models without recycle kit

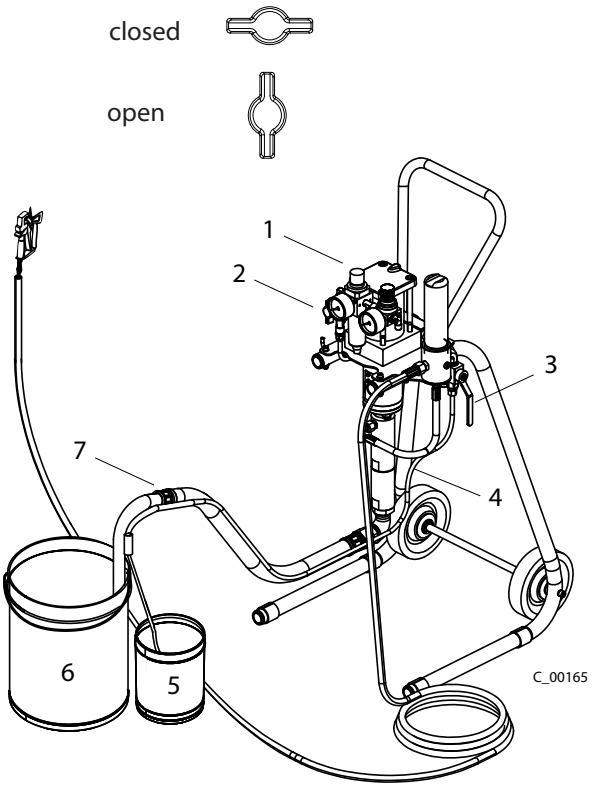
1. Remove nozzle from gun. Refer to gun manual.
2. Place suction hose (3) in container of working material (1).
3. Slowly open the ball valve (4).
4. Adjust the pressure regulator (5) until the pump starts working.
5. Direct the spray gun without nozzle towards the container (1).
   Warning: risk of material's sprayback! Protect body and eyes!
6. Acting on the pressure regulator (5), adjust the air pressure so that the pump can cycle regularly.
7. When pure material is delivered without air bubbles, close the ball valve (4) and depressurize the motor by pushing the gun trigger directing it without nozzle towards the container (1).
8. When the system is depressurized, close the spray gun.
9. Secure the spray gun.
10. Dispose of the container (1) content in compliance with the local regulations.



b) Models with recycle kit

1. Place the empty container (5) under the return hose (4).
2. Place the suction flexible hose (7) inside the container with working material (6).
3. Open the return valve (3).
4. Slowly open the ball valve (2).
5. Adjust the pressure regulator (1) until the pump starts working.
6. Acting on the pressure regulator (1), adjust the air pressure so that the pump can cycle regularly.
7. As soon as the return hose (4) starts delivering pure material, close the ball valve (2).
8. Close the return valve (3).
9. Direct the spray gun without nozzle towards the container (5) and push the trigger.
10. Slowly open the ball valve (2).
11. When pure material is delivered without air bubbles, close the ball valve (2) and depressurize the motor either by opening the return valve (3) or by pushing the gun trigger directing it without nozzle towards the container (5).
12. When the system is depressurized, close the spray gun.
13. Secure the spray gun.
14. Dispose of the container (5) content in compliance with the local regulations.



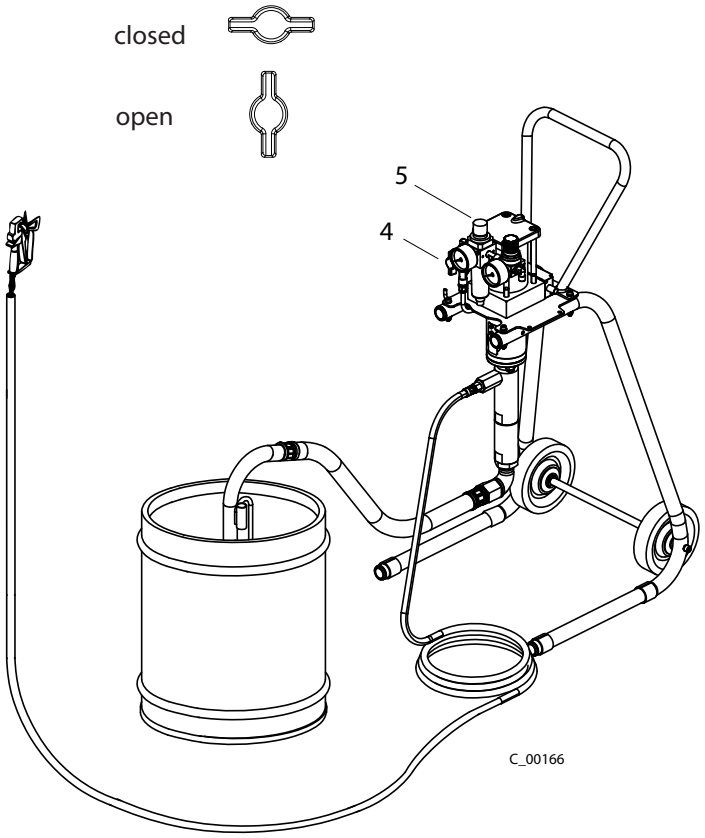


5.3 WORK

5.3.1 SPRAYING

a) Models without recycle kit

1. Insert the nozzle onto the spray gun and secure the latter.
2. Slowly open the ball valve (4).
3. By acting on the pressure regulator (5), set the desired working pressure.
4. Optimize the spraying shape as described in the spray gun directions for use.
5. Start working.



⚠WARNING

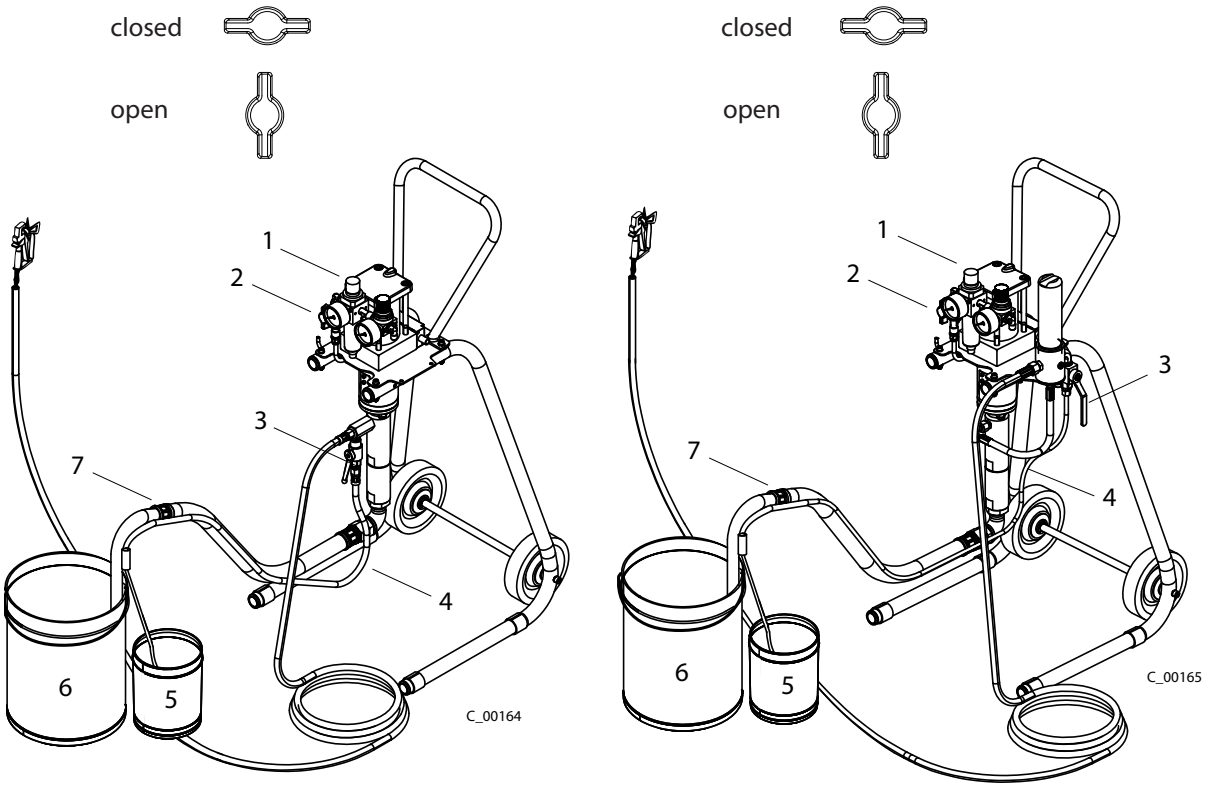
Overpressure!
Risk of injury from bursting components.

→ Frequently check for blocked recirculation pipe - the pipeline must be completely free.

SIHC_0001_GB

b) Models with recycle kit

1. Insert the nozzle onto the spray gun and secure the latter.
2. Close the valve (3).
3. Slowly open the ball valve (2).
4. By acting on the pressure regulator (1), set the desired working pressure.
5. Optimize the spraying shape as described in the spray gun directions for use.
6. Start working.



⚠WARNING

Overpressure!
Risk of injury from bursting components.

→ Frequently check for blocked recirculation pipe - the pipeline must be completely free.

SIHC_0001_GB

5.3.2 WORK STOP

1. Close spray gun.
2. Close ball valve (2 - models with recycle, 4 - models without recycle).
3. Depressurise the system opening the valve (3) or opening the gun in models without recycle kit.
4. Close and secure the gun.

If the system has been used with two component material:

⚠WARNING

Hardened material in the spraying system when 2-component material is worked!
Destruction of the pump and injection system.

→ Follow the manufacturer's working instructions, particularly regarding the pot life.
→ Rinse thoroughly before the end of the pot life.
→ The potlife time decreases at raising temperature.

SIHI_0069_GB

5.3.3 FINISHING WORK AND CLEANING

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

Procedure:
1. Working breaks -> procedure on chapter 5.3.2.
2. Basic cleaning -> procedure on chapter 5.2.3.
3. Maintain the gun as laid down in the operating instructions.
4. Clean and check the suction system and, in particular, the suction filter.
5. When using a high-pressure filter: Clean and check the filter insert.
6. Clean the outside of the system.

⚠WARNING

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

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

SIHI_0014_GB

7. Put the whole system back together.
8. Check the level of the separating fluid -> Paragraph 5.2.2.
9. Fill the system with solvent as laid down in Paragraph 5.2.4 „Filling with working material“.

⚠WARNING

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

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

SIHI_0025_GB

5.4 STORING FOR LONGER PERIODS OF TIME

When storing the device for longer periods of time it is necessary to thoroughly clean it and protect it from corrosion. Replace solvent in the material pump with a suitable preserving oil. Fill separating fluid cup with separating fluid.

Procedure:
1. Carry out Paragraph 5.3.3 „Shutting down and cleaning“, points 1 through 9.
2. Cleaning with preserving agent acc. Paragraph 5.2.3.
3. Protect the air motor with pneumatic oil: connect an oiler to the compressed air inlet and run for a few double strokes.

6 FAULT LOCATION, MAINTENANCE AND REPAIR

6.1 TROUBLE SHOOTING AND SOLUTION

Problem	Cause	Solution
The pump does not work	• Air motor does not work or stops	• Open and close ball valve on the pressure regulator unit or disconnect temporarily the feeding of compressed air
	• No pressure indication (pressure regulator defect)	• Disconnect temporarily the feeding of compressed air or repair or change pressure regulator
	• Spray nozzle is clogged	• Clean nozzle as laid down in the instructions
	• Insufficient supply of compressed air	• Check compressed air supply
	• Filter insert in spray gun or high-pressure filter is clogged	• Clean the parts and use a suitable working material
	• Material feed pump or high-pressure hose are blocked (e.g., two-component material hardened)	• Dismantle the paint pump and clean, replace high-pressure hose.
	• Sometimes the pump stops on one of the commutation points.	• Press the starter button on the steering valve to have the pump restart
		• Carefully clean and, if necessary, lubricate with light oil the sliding spool of the steering valve
Poor spray pattern	• See gun instructions	
Irregular operation of material feed pump: spray jet collapses (pulsation)	• Viscosity to high	• Dilute working material
	• Spraying pressure to low	• Increase incoming air pressure, use smaller nozzle
	• Valve stuck	• Clean material pump, if necessary leave to soak in solvent
	• Foreign body in suction valve	• Dismantle suction valve housing, clean and check valve seat
	• Diameter of the compressed air line too small	• Assemble a larger incoming line-> technical data, paragraph 4.3.2
	• Valves, packings or pistons worn out	• Replace parts
	• Filter for control air or filter for work air is clogged	• Check filter and clean it
	• In case of critical products or applications, it might be advisable to use an antipulsator/filter device	

Trouble shooting and solution

Problem	Cause	Solution
Pump runs evenly, however does not suck up material	• Union nut of the suction system is loose, pump is taking in air	• Tighten
	• Suction filter clogged	• Clean filter
	• Ball in suction or piston valve is sticking	• Clean with solvent (if necessary vent device)
Pump runs when the gun is closed	• Packings, valves or pistons worn	• Replace parts
Air motor iced up	• A lot of condensation water in the air supply	• Install a water separator

If the problem is not listed above consult your WAGNER Service Center.

6.2 MAINTENANCE

⚠WARNING

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

→ Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts.
→ Only repair and replace parts that are listed in the chapter "Spare parts catalog".
→ Before all work on the unit and in the event of work interruptions:
- Disconnect the control unit from the mains.
- Relieve the pressure from the spray gun and unit.
- Secure the spray gun against actuation.
→ Observe the operating and service instructions when carrying out all work.

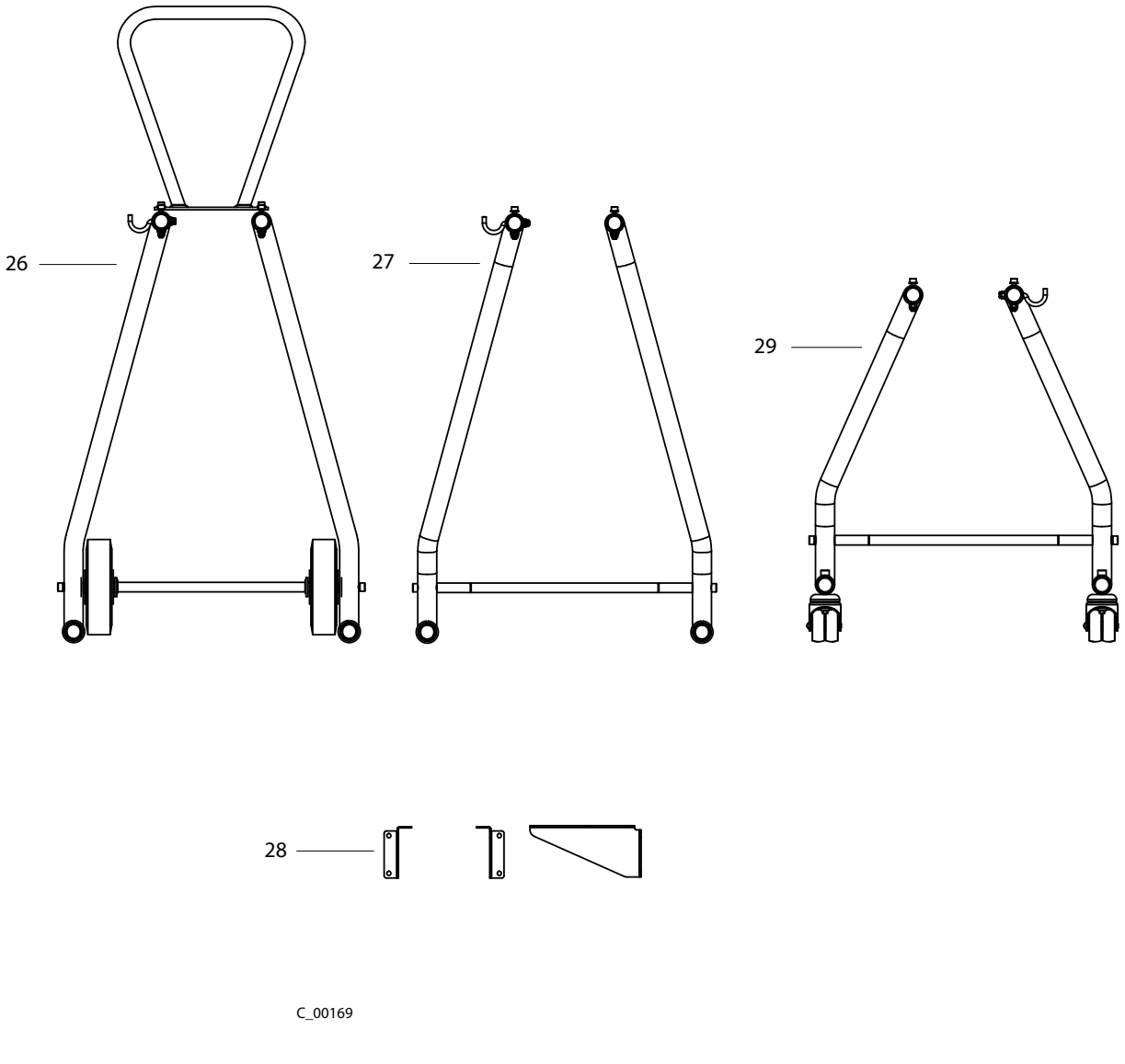
SIHI_0048_GB

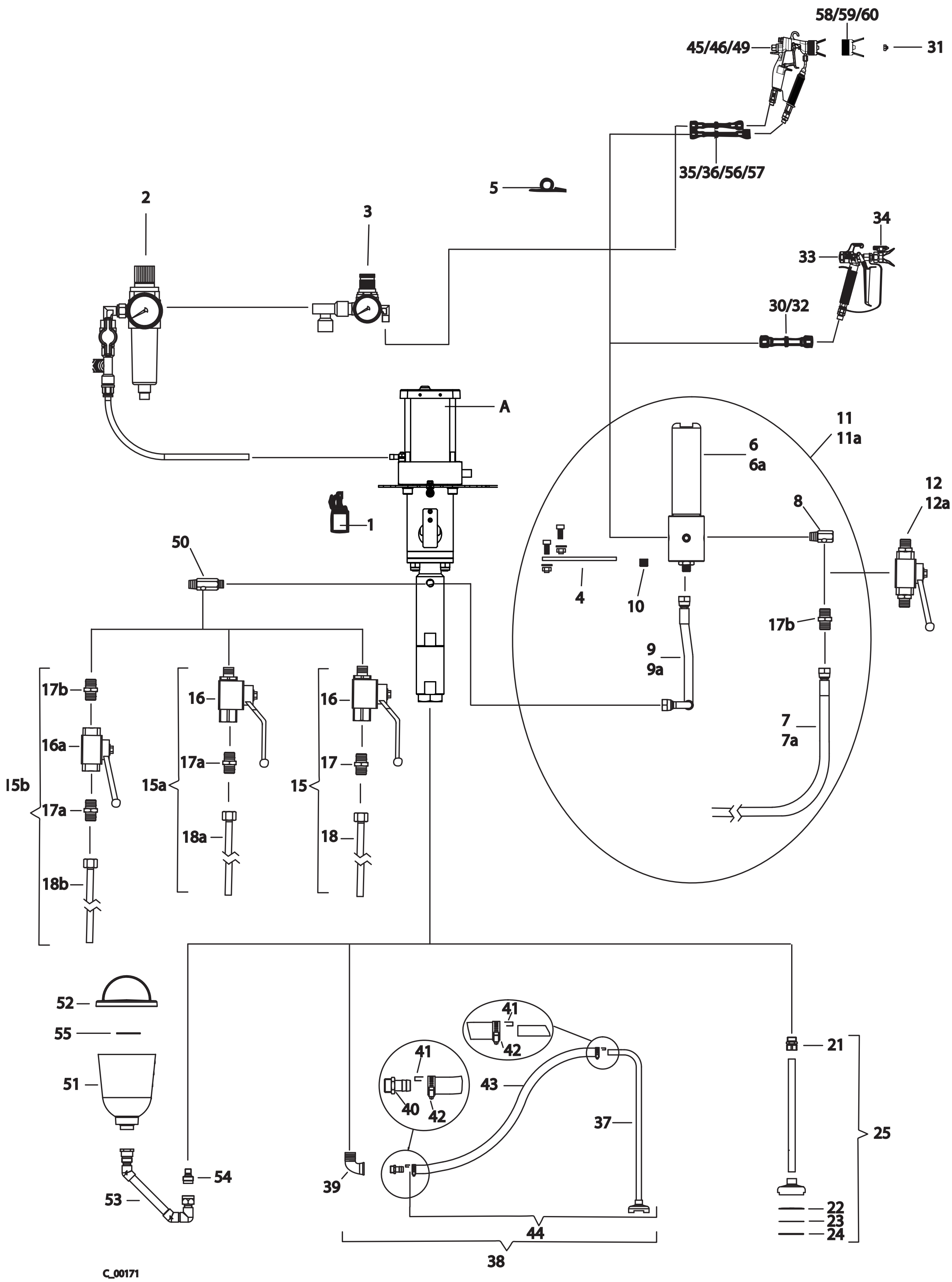
1. Check the level of separating fluid in the separating fluid cup every day, and top up if necessary.
2. Check and clean the high-pressure filter every day or as required.
3. Every shut down should be carried out as laid down in paragraph 5.3.3 !
4. Check and replace if necessary hoses, tubes, couplings every days.

WAGNER recommends to check the whole spray system every year from a technical expert (e.g. WAGNER service technician).

7 ACCESSORIES

7.1 ACCESSORIES

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C_00171

	List accessories FineFinish	40-15	20-30
Pos K	**Description**	**No**	**No**
A	Piston pump (Stainless steel fluid section)	U1S40015P	U1S20030P
1	Release agent 250ml; 250cc	9992504	9992504
1	Release agent 500ml; 500cc	9992505	9992505
2	Air regulator	T6140.00A	T6140.00
3	AC pressure regulator	T6145.00A	T6145.00A
4	Filter holder	T6146.00	
5	Ground wire 3m; 9.8ft	0236219	0236219
6	Carbon steel antipulsator/filter	T405.00M	
6a	Stainless steel antipulsator/filter	T479.00M	
7	Recycle hose NPS1/4" with carbon steel fittings	S801.00B	
7a	Recycle hose NPS1/4" with SSt fittings	S801.00A	
8	Outlet fitting of the antipulsator/filter	B0462.03	
9	Pump/filter connection hose with carbon steel fittings	S802.00	
9a	Pump/filter connection hose with SSt fittings	S802.00A	
10	Cap BSP 1/4"	M826.03A	
11	Carbon steel antipulsator/filter kit	T6195.00M	
11a	Stainless steel antipulsator/filter kit	T6195.00MI	
12	Carbon steel recycle valve kit	T6165.00MB	
12a	Stainless steel recycle valve kit	T6165.00MCI	
15	Carbon steel recycle kit	T6165.00M	
15a	Stainless steel recycle kit with rigid pipe	T6165.00MI	
15b	Stainless steel recycle kit with flexible hose	T6165.00MAI	
16	Carbon steel valve M/F 1/4"	M501.00	
16a	Stainless steel valve F/F 1/4"	M534.00	
17	Carbon steel nipple BSP 1/4"	M614.62	
17a	Stainless steel nipple BSP 1/4"	M8018.03	
17b	Stainless steel nipple BSP 1/4" x NPS1/4"	M801.03B	
18	Recycle hose with brass fitting	S401.00M	
18a	Recycle hose with SSt BSP 1/4" fitting	S401.00MI	
18b	Recycle hose with SSt NPS 1/4" fitting	S801.00	
21	Fitting 1/2" x 16	M265.00	M265.00
22	Filter support disk	H401.07	H401.07
23	Suction hose filter	T453.03	T453.03
24	Suction hose spring	H206.03	H206.03
25	Straight carbon steel suction pipe	T4016.00	T4016.00M
26	Trolley	T760.00SR	T760.00SR
27	Stand	T760.00S	T760.00S
28	Wall plate kit	T760.00M	T760.00M
29	Hopper stand kit	T6196.00	

	List accessories FineFinish	40-15	20-30
Pos K	**Description**	**No**	**No**
30	High-pressure hose Airless, 1/4 NPSM, DN 4 mm; ID 0.16 inch, 7.5 m; 24.6 ft, 27 MPa; 270 bar; 3920 psi	9984573	
31	Nozzle ACF3000 -> see nozzle list in gun manual	0379 . . .	
32	High-pressure hose Airless, 1/4 NPSM, DN 3 mm; ID 0.12 inch, 7.5 m; 24.6 ft, 27 MPa; 270 bar; 3920 psi	9984583	
33	Airless gun AG-14, NPSM 1/4", 27 MPa; 270 bar; 3920 psi without Trade Tip nozzle	0502119	
34	Wagner Trade Tip nozzles, selection table see chap. 7.2	0552 . . .	
35	Hose set AC Material DN3, Air DN6, 7.5 m; 24.6 ft	9984595	
36	Hose set AC Material DN3, Air DN6, 10 m; 32.8 ft	9984596	
37	Suction pipe ST compl. met. part	T420.00	
38	ST flex. SSt 1/2 suction hose	T4016.00EI	
39	Stainless steel L-shaped fitting	M808.03B	
40	SSt flexible pipe holder	B274.03	
41	SSt contact clip	E0107.03	
42	Hose clamp	R601.00	
43	Solvent resistant suction hose	S402.00A	
44	Stainless steel ST suction hose	T406.00	
45	AC 4600 Pro (blue) with nozzle 11/40, 25 MPa; 250 bar; 3625 psi, NPSM 1/4"	0394150	
46	AC 4600 Pro (green) with nozzle 11/40, 25 MPa; 250 bar; 3625 psi, NPSM 1/4"	0394152	
49	AC 4600 Pro (red) with nozzle 11/40, 25 MPa; 250 bar; 3625 psi, NPSM 1/4"	0394151	
50	Pump - fluid hose adaptor fitting	B0461.03A	B0461.03
51	Hopper with filter	0340265	
52	Hopper cover	0340429	
53	Hopper suction pipe	0366950	
54	Hopper adaptor fitting BSP 1/2" x M36x2	0935050	
55	Hopper filter	0003756	
56	Hose set AC Material DN4, Air DN6, 7.5 m; 24.6 ft	2302378	
57	Hose set AC Material DN4, Air DN6, 10 m; 32.8 ft	2302379	
58	Air cap LV (red = suitable for low viscosity paints)	0394910	
59	Air cap HV (blue = suitable for high viscosity paints)	0394911	
60	Air cap (green = small air requirement)	0394912	

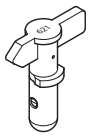
7.2 Selection table Trade Tip nozzles (Airless)

Airless tip table

Wagner Professional tip
up to 270 bar
(27 MPa)

without tip
F thread (11/16 - 16 UN)
for Wagner spray guns
Order no. 0556 042

without tip
G thread (7/8 - 14 UN)
for Graco/Titan spray guns
Order no. 0556 041



Application	Tip marking	Spray angle	Bore inch / mm	Spraying width mm 1)	Order no.
Natural paints, Clear paints, Oils (Spray gun filter "RED")	407	40°	0.007 / 0.18	160	0552 407
	507	50°	0.007 / 0.18	190	----------
	209	20°	0.009 / 0.23	145	0552 209
	309	30°	0.009 / 0.23	160	0552 309
	409	40°	0.009 / 0.23	190	0552 409
	509	50°	0.009 / 0.23	205	0552 509
	609	60°	0.009 / 0.23	220	0552 609
Synthetic-resin paints, PVC paints (Spray gun filter "RED")	111	10°	0.011 / 0.28	85	0552 111
	211	20°	0.011 / 0.28	95	0552 211
	311	30°	0.011 / 0.28	125	0552 311
	411	40°	0.011 / 0.28	195	0552 411
	511	50°	0.011 / 0.28	215	0552 511
	611	60°	0.011 / 0.28	265	0552 611
Paints, primers, Zinc chromate base, Fillers (Spray gun filter "RED" / "YELLOW")	113	10°	0.013 / 0.33	100	0552 113
	213	20°	0.013 / 0.33	110	0552 213
	313	30°	0.013 / 0.33	135	0552 313
	413	40°	0.013 / 0.33	200	0552 413
	513	50°	0.013 / 0.33	245	0552 513
	613	60°	0.013 / 0.33	275	0552 613
	813	80°	0.013 / 0.33	305	0552 813
Fillers, Spray plasters, Rust protection paints (Spray gun filter "YELLOW")	115	10°	0.015 / 0.38	90	0552 115
	215	20°	0.015 / 0.38	100	0552 215
	315	30°	0.015 / 0.38	160	0552 315
	415	40°	0.015 / 0.38	200	0552 415
	515	50°	0.015 / 0.38	245	0552 515
	615	60°	0.015 / 0.38	265	0552 615
	715	70°	0.015 / 0.38	290	0552 715
	815	80°	0.015 / 0.38	325	0552 815
Spray plasters, Rust protection paints, Red lead, Latex paints (Spray gun filter "YELLOW" / "WHITE")	217	20°	0.017 / 0.43	110	0552 217
	317	30°	0.017 / 0.43	150	0552 317
	417	40°	0.017 / 0.43	180	0552 417
	517	50°	0.017 / 0.43	225	0552 517
	617	60°	0.017 / 0.43	280	0552 617
	717	70°	0.017 / 0.43	325	0552 717
	219	20°	0.019 / 0.48	145	0552 219
	319	30°	0.019 / 0.48	160	0552 319
	419	40°	0.019 / 0.48	185	0552 419
	519	50°	0.019 / 0.48	260	0552 519
	619	60°	0.019 / 0.48	295	0552 619
	719	70°	0.019 / 0.48	320	0552 719
	819	80°	0.019 / 0.48	400	0552 819
Mica paints, Zinc dust paints, Dispersions (Spray gun filter "WHITE")	221	20°	0.021 / 0.53	145	0552 221
	421	40°	0.021 / 0.53	190	0552 421
	521	50°	0.021 / 0.53	245	0552 521
	621	60°	0.021 / 0.53	290	0552 621
	821	80°	0.021 / 0.53	375	0552 821
Rust protection paints (Spray gun filter "WHITE")	223	20°	0.023 / 0.58	155	0552 223
	423	40°	0.023 / 0.58	180	0552 423
	523	50°	0.023 / 0.58	245	0552 523
	623	60°	0.023 / 0.58	275	0552 623
	723	70°	0.023 / 0.58	325	0552 723
	823	80°	0.023 / 0.58	345	0552 823
Dispersions, Binder, glue and filler paints (Spray gun filter "WHITE" / "GREEN")	225	20°	0.025 / 0.64	130	0552 225
	425	40°	0.025 / 0.64	190	0552 425
	525	50°	0.025 / 0.64	230	0552 525
	625	60°	0.025 / 0.64	250	0552 625
	825	80°	0.025 / 0.64	295	0552 825
	227	20°	0.027 / 0.69	160	0552 227
	427	40°	0.027 / 0.69	180	0552 427
	527	50°	0.027 / 0.69	200	0552 527
	627	60°	0.027 / 0.69	265	0552 627
	827	80°	0.027 / 0.69	340	0552 827
	629	60°	0.029 / 0.75	285	0552 629
	231	20°	0.031 / 0.79	155	0552 231
	431	40°	0.031 / 0.79	185	0552 431
	531	50°	0.031 / 0.79	220	0552 531
	631	60°	0.031 / 0.79	270	0552 631
	433	40°	0.033 / 0.83	220	0552 433
	235	20°	0.035 / 0.90	160	0552 235
	435	40°	0.035 / 0.90	195	0552 435
	535	50°	0.035 / 0.90	235	0552 535
	635	60°	0.035 / 0.90	295	0552 635
	839	80°	0.039 / 0.99	480	----------
Large-area coatings (Spray gun filter "GREEN")	243	20°	0.043 / 1.10	185	0552 243
	543	50°	0.043 / 1.10	340	0552 543
	552	50°	0.052 / 1.30	350	0552 552

1)Spray width at about 30 cm to the object and 100 bar (10 MPa) pressure with synthetic-resin paint 20 DIN seconds.

7.3 SPRAYPACKS

Type	Part-No.	Consisting of accessories items
20-30		
EvoMotion 20-30 SSt Spraypack on mounting plate, with Stainless steel recycle kit, trolley, hopper and AirCoat gun AC 4600 Professional	2309799	A, 3, 15b, 35, 49, 51, 52, 53, 54
EvoMotion 20-30 SSt Spraypack on mounting plate, with Stainless steel recycle kit, frame and AirCoat gun AC 4600 Professional	2309802	A, 3, 15b, 27, 35, 49
40-15		
EvoMotion 40-15 SSt Spraypack on mounting plate, with Stainless steel recycle kit, frame and gun AG 14	2309804	A, 3,15b, 27,30,33

8 SPARE PARTS

8.1 HOW TO ORDER SPARE PARTS

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

Part Number, description and quantity

The quantity need not be the same as the number given in the „Quantity" column. This number merely indicates how many of the respective parts are used in each subassembly.

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

- Address for the invoice
- Address for delivery
- Name of the person to be contacted in the event of any queries
- Type of delivery required (air freight or mail, sea route or overland route, etc.)

Marks in spare parts lists

Note to column „K" in the following spare parts lists.

◆ = Wearing parts
Note: No liability is assumed for wearing parts

● = Not part of standard equipment, available, however, as additional extra.

⚠WARNING

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

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

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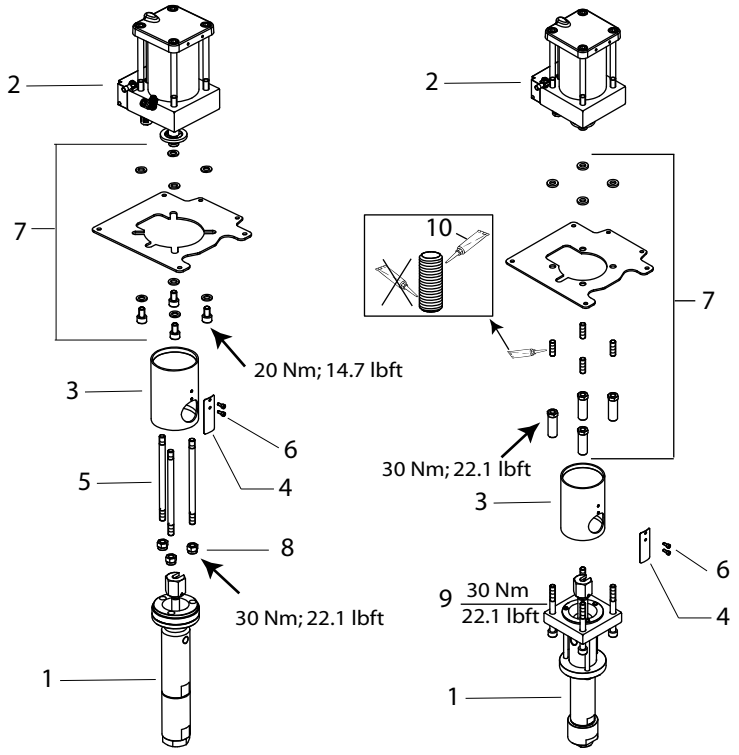
8.2 OVERVIEW MODULES

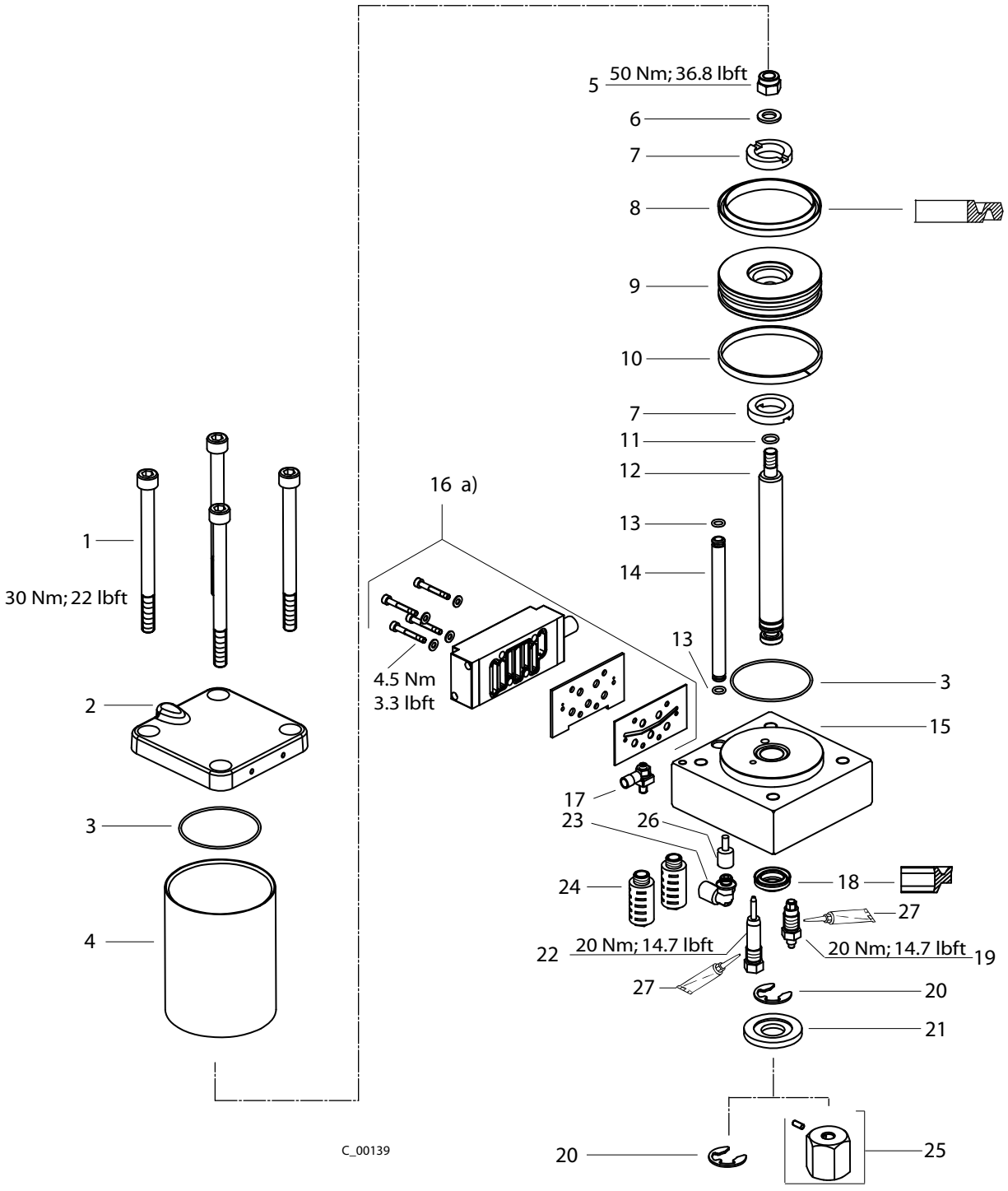
EvoMotion		40 - 15		20 - 30	
Pos	**Description**	**No.**	**Qty**	**No.**	**Qty**
	Piston pump	U1S40015P	1	U1S20030P	1
1	Fluid section	U2B015AI	1	U2B030AI	1
2	Air motor	U3B08018060	1	U3B08018060	1
3	Spacer	A359.71A	1	A359.71A	1
4	Spacer/Guard	E516.71A	1	E516.71A	1
5	Tie-rod	H115.62	3	-	-
6	Socket screw	K144.62	2	K144.62	2
7	Pump mounting plate	T6147.00C	1	T6147.00A	1
8	Self-locking nut	K309.62	3	-	-
9	Socket screw	-	-	K176.62	4
10	Loctite 542	-	-	-	-



40 -15 20 - 30

8.3 AIR MOTOR

8.3.1 AIR MOTOR EXPLODED VIEW 40 - 15, 20 - 30



a) Reversing valve see following pages

⚠ WARNING

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

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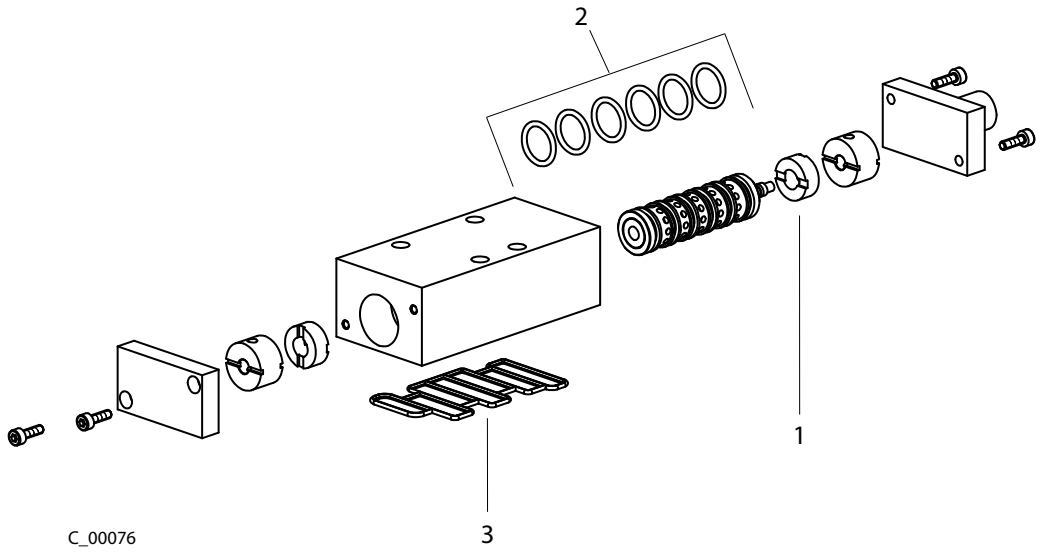
→ Before all work on the unit and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and unit.
- Secure the spray gun against actuation.
→ Observe the operating and service instructions when carrying out all work.

Spare parts list Air motor 40 -15, 20 - 30			**40 - 15 20 - 30**
Pos K	**Description**	**Qty.**	**No.**
	Air motor		U3B08018060
1	Socket screw	4	K1033.62
2	Upper motor flange	1	F132.91C
3 ★ ◆	O-Ring seal	2	L108.06
4	Motor cylinder	1	D608.81
5	Self-locking nut	1	K309.62
6	Washer	1	K507.62
7 ★ ◆	Damper	2	G903.06
8 ★ ◆	Piston seal gasket	1	L413.06
9	Motor piston	1	A164.01
10 ★ ◆	Slip band	1	L802.08
11 ★ ◆	O-Ring seal	1	L110.06
12	Motor rod	1	D404.12
13 ★ ◆	O-Ring seal	2	L109.06
14	Air pipe	1	A408.12
15	Motor base	1	T616.00C
16 ◆	Reversing valve	1	P498.00KNE
17	Earthing kit	1	T6153.00
18 ★ ◆	Seal gasket	1	L403.06
19 ★ ◆	Lower feeler	1	T703.00
20	Retaining ring	2	K606.02
21	Reversing disc	1	A160.01A
22 ★ ◆	Upper feeler	1	T702.00

Spare parts list Air motor 40 -15, 20 - 30				40 - 15 20 - 30
Pos	**K**	**Description**	**Qty.**	**No.**
23		Fitting	1	M339.00
24	◆	Muffler	2	H505.07
25		Connector	-	-
26		Straight fitting	1	M432.00
27		Loctite 542	-	-
		Service set	1	T910.00

◆ = Wearing parts
★ = Included in service set

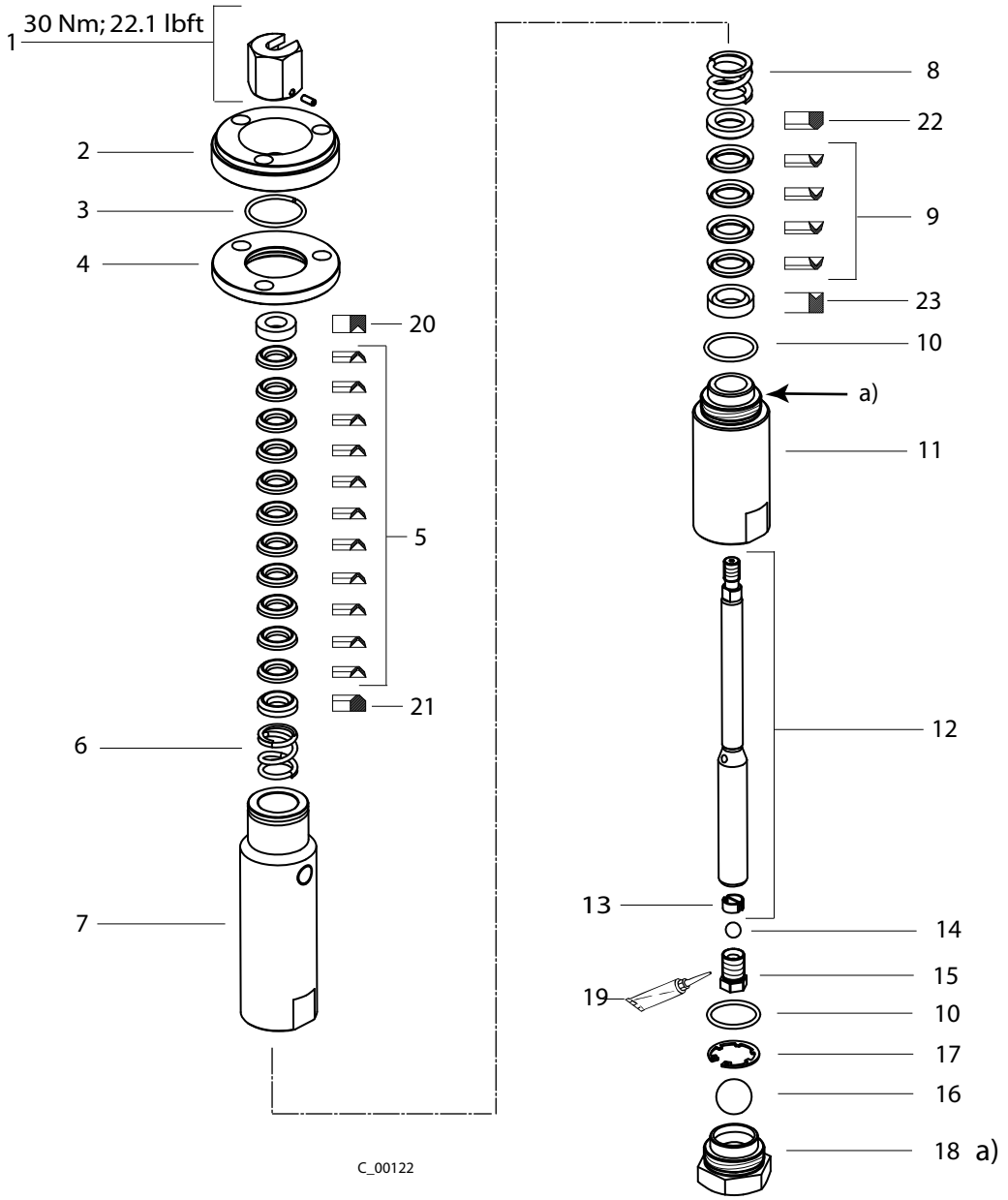
8.3.2 REVERSING VALVE 40 - 15, 20 - 30



Spare parts list Reversing valve 40 - 15, 20 - 30				40-15 20-30
Pos	**K**	**Qty**	**Description**	**No.**
			Reversing valve	P498.00
1		1	Damper	P520.00
2		6	O-Ring seal	L115.06
3		1	Valve base seal	P521.00

8.4 FLUID SECTION

8.4.1 FLUID SECTION EXPLODED VIEW 40 - 15



a) Paint on with anti-seize paste (e.g. Loctite 8150)

⚠ WARNING

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

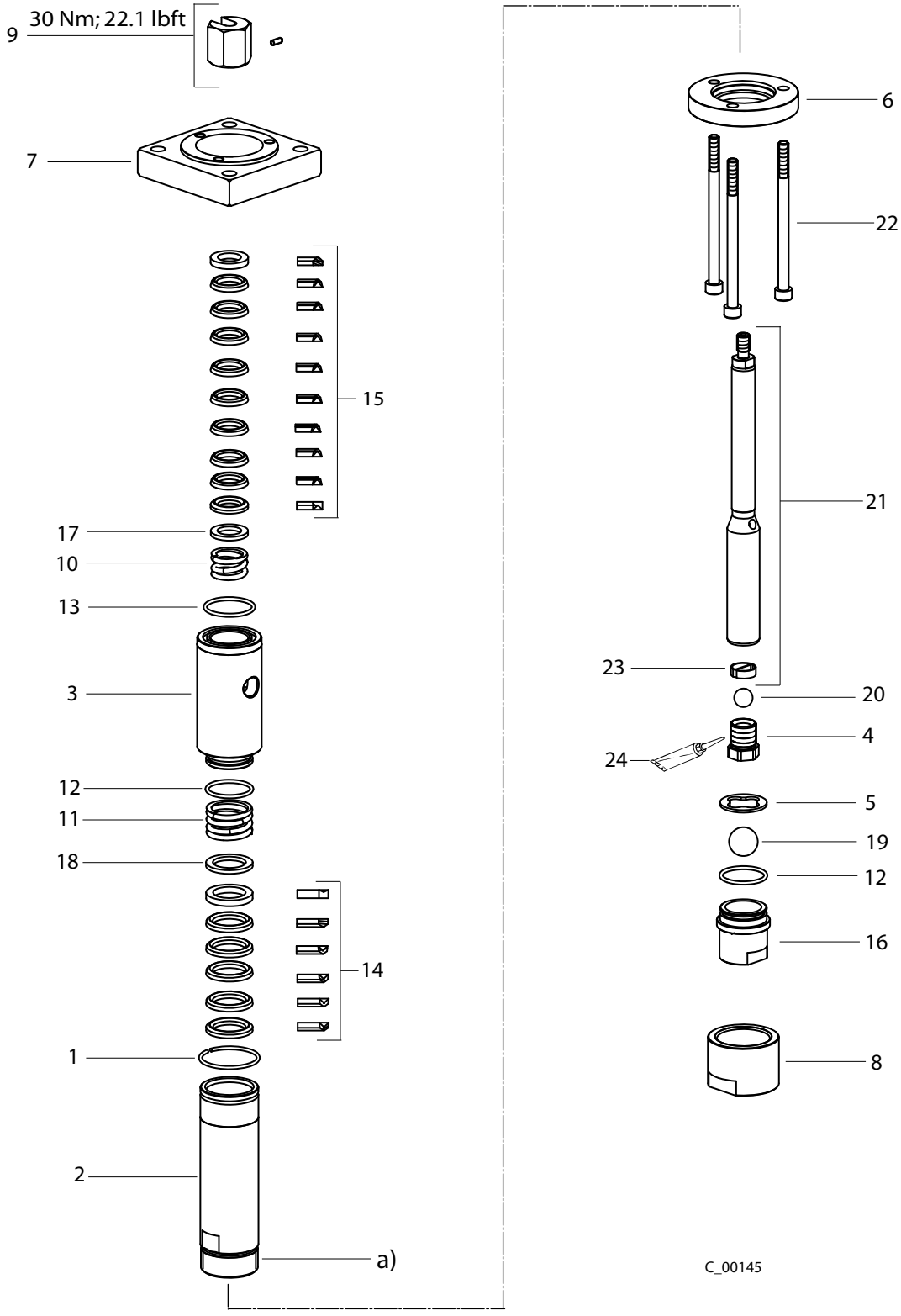
→ Repairs and part replacement may only be carried out by specially trained staff or a WAGNER service center.
→ Before all work on the unit and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and unit.
- Secure the spray gun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

Spare parts list Fluid section 40 - 15			**40-15**
Pos K	**Qty**	**Description**	**No.**
		Fluid section	U2B015AI
1	1	Connector	T6158.00
2	1	Pump flange	A661.12
3	1	Retaining ring	K617.03
4	1	Pump counterflange	A662.12
5 ★ ◆	1	Upper packing	T9037.00E
6	1	Spring	H204.03
7	1	Pump upper body	A658.03
8	1	Spring	H203.03
9 ★ ◆	1	Piston packing	T9038.00E
10 ★ ◆	2	O-Ring seal	L107.06
11	1	Pump lower body	B534.03
12 ◆	1	Pump rod	T6157.00I
13	1	Rod valve stopper	A170.03
14 ◆	1	3/8" Ball	K801.03
15 ◆	1	Rod valve body	A169.03
16 ◆	1	7/8" Ball	K803.03
17 ◆	1	Ring	K601.03
18 ◆	1	Pump foot	A660.03
19	-	Loctite 542	-
	1	Service set	T9039.00E
20	1	Female thrust bearing	A171.03
21	1	Male thrust bearing	A172.03
22	1	Male thrust bearing	A411.03
23	1	Female thrust bearing	A410.03

◆ = Wearing parts

★ = Included in service set

8.4.2 FLUID SECTION EXPLODED VIEW 20 - 30



a) Paint on with anti-seize paste (e.g. Loctite 8150)

⚠ WARNING

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

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

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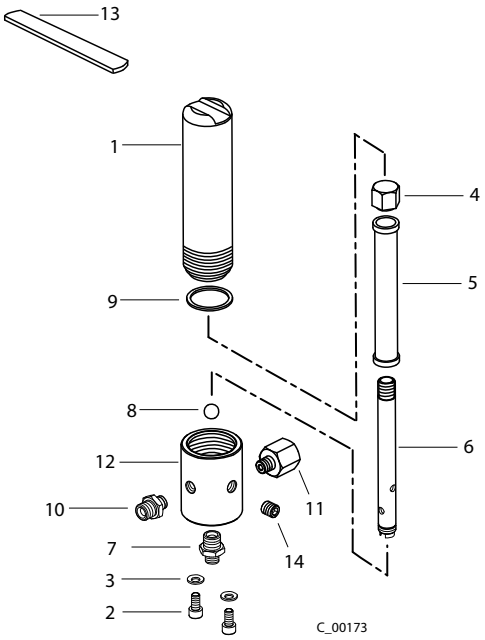
Spare parts list Fluid section 20 - 30				**20 - 30**
Pos	**K**	**Description**	**Qty**	**No.**
		Fluid section		U2B030AI
1		Ring	1	K640.02
2		Pump lower body	1	B0392.03
3		Pump upper body	1	B0391.03
4	◆	Rod valve body	1	A155.03
5		Ball stopper	1	A961.03A
6		Lower flange	1	B0387.62
7		Upper flange	1	B0388.62
8		Pump foot ring	1	B0389.03
9		M/P connector	1	T6158.00
10		Spring	1	H203.03
11		Spring	1	H222.03
12	★ ◆	O-Ring seal	2	L170.06
13	★ ◆	O-Ring seal	1	L112.06
14	★ ◆	Piston packing	1	T941.00G
15	★ ◆	Upper packing	1	T920.00D
16	◆	Pump foot	1	B0390.03
17		Flat thrust bearing	1	A114.03
18		Flat thrust bearing	1	B0099.03
19	◆	Ball 7/8″	1	K803.03
20	◆	Ball 9/16″	1	K802.03
21	◆	Pump rod	1	T6181.00
22		Socket screw M8x120	3	K1063.62
23		Ball stopper	1	A156.03
24		Loctite 542		
		Service set	1	T940.00G

◆ = Wearing parts

★ = Included in service set

8.5 ANTIPULSATOR/FILTER (OPTION)

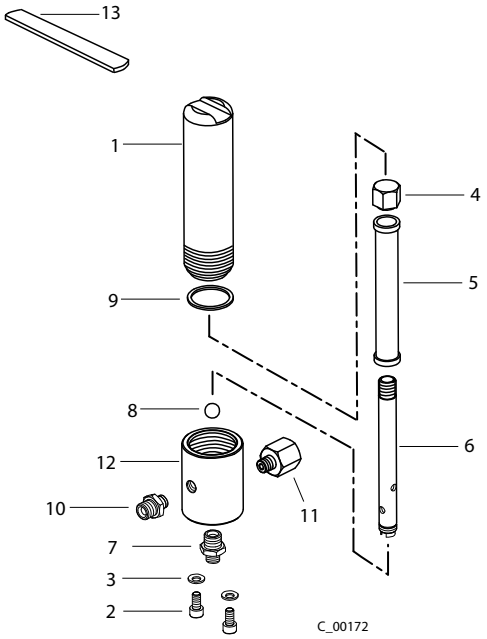
8.5.1 CARBON STEEL ANTIPULSATOR/FILTER



Pos K	Description	Qty	No.
	Carbon steel antipulsator/filter		T405.00M
1	Antipulsator body	1	A291.22
2	Screw	2	K136.62
3	Contact washer	2	K572.62
4	Antipulsator cap	1	A292.71
5 ◆	Antipulsator filter	1	T455.00
6 ◆	Filter support	1	A364.04
7	Nipple 3/8 BSP x 1/4 NPS	1	M8022.03
8 ◆	9/16″ AISI 420 ball	1	K820.03
9 ◆	Antipulsator seal gasket	1	G605.07
10	Nipple 1/4 BSP x 1/4 NPS	1	M8018.03
11	L-shaped fitting 1/4 BSP	1	B0462.03
12	Antipulsator base	1	A290.22
13	Antipulsator spanner	1	T803.62
14	Cap 1/4 BSP	1	M623.12

◆ = Wearing parts

8.5.2 STAINLESS STEEL ANTIPULSATOR/FILTER

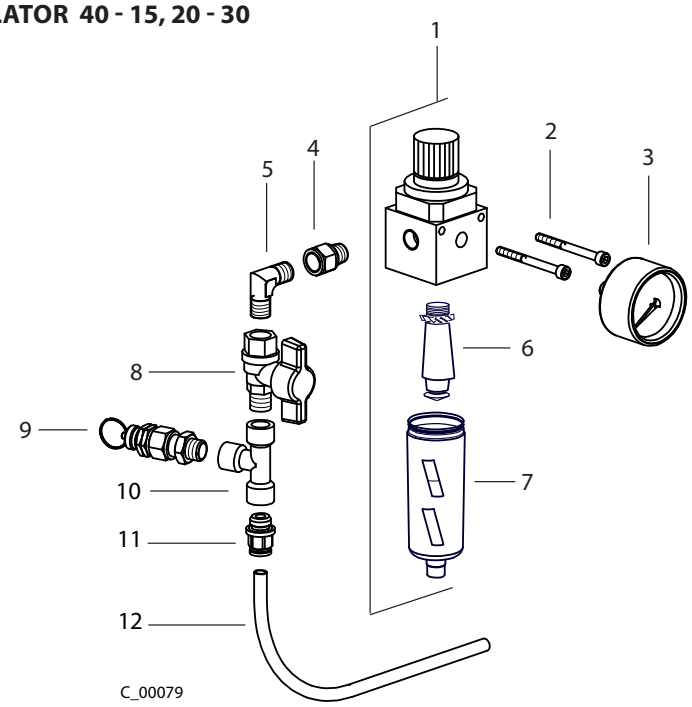


Pos K	Description	Qty	No.
	Stainless steel antipulsator/filter		T479.00M
1	Antipulsator body	1	B453.03
2	Screw	2	K136.62
3	Contact washer	2	K572.62
4	Antipulsator cap	1	A292.03
5 ◆	Antipulsator Filter	1	T455.00
6 ◆	Filter support	1	A364.03
7	Nipple 3/8 BSP x 1/4 NPS	1	M8022.03
8 ◆	1/2″ AISI 420 ball	1	K820.03A
9 ◆	Antipulsator seal gasket	1	G605.07
10	Nipple 1/4 BSP x 1/4 NPS	1	M8018.03
11	L-shaped fitting 1/4 BSP	1	B0462.03
12	Antipulsator base	1	B271.03
13	Antipulsator spanner	1	T803.62

◆ = Wearing parts

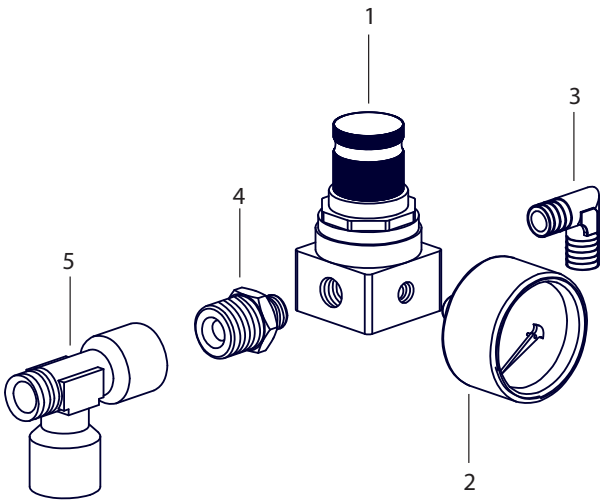
8.6 AIR REGULATION UNIT KIT

8.6.1 AIR REGULATOR 40 - 15, 20 - 30



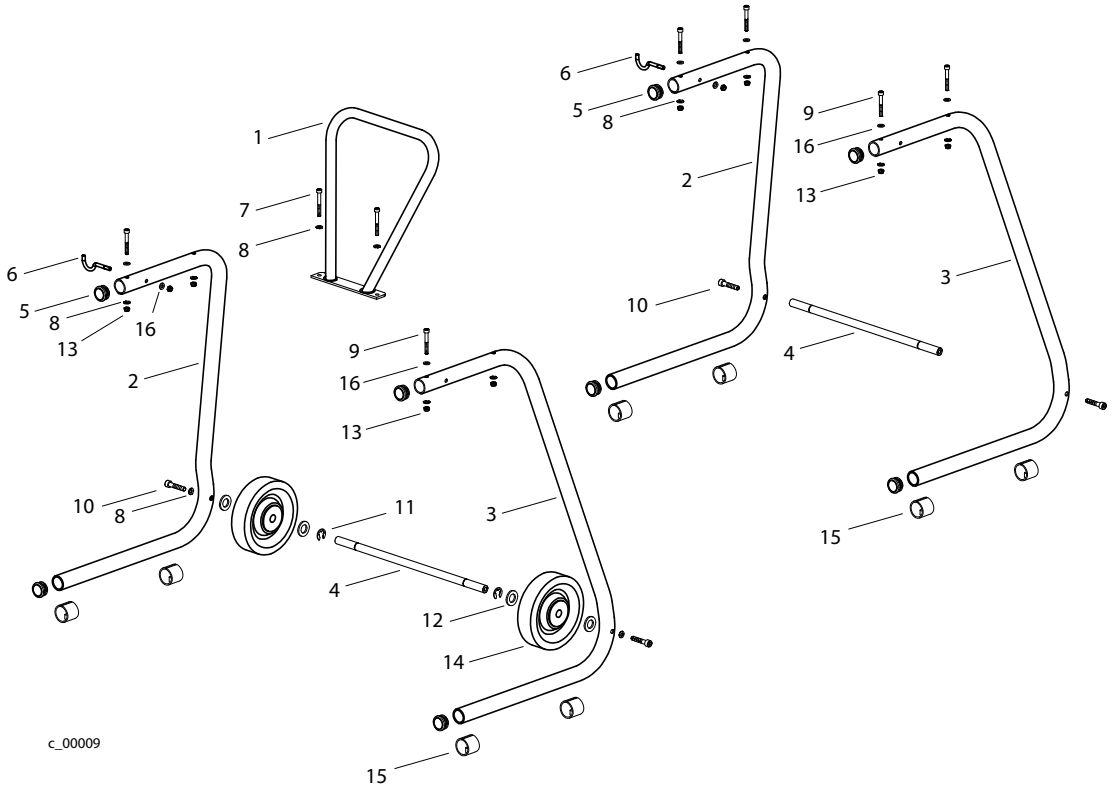
Spare parts list Air regulation unit			40 - 15	20 - 30
Pos.	**Qty.**	**Description**	**No.**	**No.**
		Air regulation unit	T6140.00A	T6140.00
1	1	Filter regulator	P124.00M	P124.00M
2	2	Screw M4x50	K166.62	K166.62
3	1	Pressure gauge	P903.00	P903.00
4	1	Fitting MF	M239.00	M239.00
5	1	L-shaped fitting MM	M215.04	M215.04
6	1	Filtering element	P246.00	P246.00
7	1	Filtering cup	P225.00	P225.00
8	1	Valve	M101.00	M101.00
9	1	Safety valve	P484.00C1	P484.00C0
10	1	Fitting T	M297.00	M297.00
11	1	Fast fitting	M226.04	M226.04
12	1	Motor connecting hose	S407.01	S407.01

8.7 AIR COAT REGULATION KIT

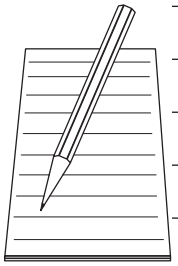


Spare parts list Air coat regulation kit			40 - 15 20 - 30
Pos.	**Qty.**	**Description**	**No.**
		Air coat regulation kit	T6145.00A
1	1	Air pressure regulator	P123.00
2	1	Pressure gauge	P903.00
3	1	L-shaped fitting MM 1/4"	M215.04
4	1	Conical nipple 1/4	M205.04
5	1	Fitting T FFM 1/4"	M218.04

8.8 TROLLEY AND STAND KIT FOR 40 - 15, 20 - 30



Pos K	Description	Qty.	Trolley No.	Qty.	Stand kit No.
	Trolley	1	T760.00SR	-	-
	Stand kit	-	-	1	T760.00S
1	Trolley handle Finishing	1	E3108.92	-	-
2	Left leg Finishing	1	E3107.92A	1	E3107.92A
3	Right leg Finishing	1	E3107.92	1	E3107.92
4	Support spacer Finishing	1	H1156.62	1	H1156.62
5	Plastic tip D30	4	R204.07	4	R204.07
6	Gun hook	1	H009.62	1	H009.62
7	Socket screw M6x50	2	K159.62	-	-
8	Contact washer	9	K564.72	-	-
9	Socket screw M6x45	2	K184.62	4	K184.62
10	Socket screw M8x40	2	K1015.62	2	K1015.62
11	Retaining ring 12	2	K607.02	-	-
12	Washer 16	4	K502.62	-	-
13	Low self-locking nut M6	5	K311.62A	5	K311.62A
14	Wheel diam. 150	2	R118.00	-	-
15	Plastic support	4	R244.07	4	R244.07
16	Washer 6	2	K505.62	-	-



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