Fluid Extractor

Operating manual

Validity

This operating manual is valid for:

Blaser Swisslube Fluid Extractor
Art. no. 09274-03-0000

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Note: This operating manual was originally created in German. In the event of discrepancies or inconsistencies between the German version and translations into other languages, only the German version will be considered binding.

Confirmation

As the end customer, we hereby confirm that we have read and understood this operating manual and have instructed all employees who work with the machine described below:

Company stamp:

Place and date:

Signature:

Foreword

This operating manual is intended to help operators and users become familiar with the Fluid Extractor and its accessories and use them as intended.

The operating manual contains important information about how to operate the Fluid Extractor safely, properly and economically. Observing it helps to avoid hazards, costly repairs and downtime and to extend the service life of the Fluid Extractor. This operating manual is an integral component of the Fluid Extractor and form part of the scope of supply on resale.

The operating manual must be read and applied by any person charged with handling the Fluid Extractor, for example in the context of

- operation, including set-up, troubleshooting in the workflow, care, disposal of operating and auxiliary materials
- maintenance (servicing, inspection, repair) and/or
- transport and storage

In addition to the operating manual and the binding regulations for accident prevention applicable in the country of use and at the place of use, the recognized technical rules for safe and professional work must also be observed.

Copyright

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Table of contents

Table of contents

1. Safety

1.1 Basic safety instructions

The person responsible for the safety of the device must ensure the following:

- Only qualified personnel should be authorized to work on the device.
- This personnel must always have the operating manual and the other product documentation available for all work and be obliged to observe these documents consistently.
- Unqualified personnel are prohibited from working on the device.
- The rules and regulations for accident prevention applicable to the place of use and compliance with maintenance and servicing work must be observed.

Only qualified persons may work on the device. They must have appropriate training and experience, have been instructed, be familiar with the relevant safety regulations, have been expressly authorized by the responsible person and be able to recognize and avoid potential hazards.

The responsibilities of the personnel for assembly, commissioning, operation, set-up, maintenance, storage and repair are clearly defined.

Personnel to be trained may only work on the device under the supervision of qualified personnel.

The following pages describe the safety instructions and safety requirements. These safety instructions do not claim to be exhaustive.

1.2 Dangers when handling the device

The device and assemblies are built in accordance with the state of the art and recognized safety regulations. Nevertheless, improper use or handling may result in danger to the user or third parties or damage to the machine or other property. The device is only to be used as follows:

- For the intended use.
- In a safe and technically flawless condition. Any faults that may impair safety must be rectified immediately.

1.3 Safety and protective equipment

- All protective equipment must be properly fitted and functional before the device is used.
- Protective devices may only be removed after the device has been shut down and secured against switching on.
- The operating elements must be freely accessible.

1.4 Personal protective equipment and supplementary measures

- The required personal, country-specific protective equipment must be provided by the operator.
- All existing safety equipment must be checked regularly.

We recommend wearing gloves, ear protection and safety goggles when working with the device, as it is used with metalworking fluids and in mechanical workshops.

Use eye, hand and ear protection (in accordance with EN ISO 7010)

1.5 Intended use

The device may only be used under the intended operating conditions. The device is intended to be used only for suctioning up floating residues (tramp oil and chips) or emptying metalworking fluids from machinery and metalworking fluid containers. It may not be used for any other purpose. Refer to chapter 2.1 of these operating instructions for more detailed information concerning use.

Any other or additional use is considered improper use. The manufacturer is not liable for damage resulting from improper use. Intended use also includes the following:

- Observe and comply with all instructions and warnings in this operating manual.
- Compliance with inspection and maintenance work.

1.6 Improper use

The manufacturer is not liable for damage caused by improper use of the device.
Examples of improper use include (but are not limited to):

- Operating the device with damaged drums, drums that do not conform to standard DIN EN ISO 1579-2:2008-09 or other types of container.
- Operating with compressed air at greater than 10 bar (static line pressure).
- Any use of the device on living creatures.
- Operating the device without using personal protective equipment.

1.7 Hazard, mandatory and information symbols

All safety-relevant points in this operating manual are marked with a warning triangle, which in combination with the keywords „WARNING“ or „CAUTION“ indicates a warning of personal injury. A symbol with the keyword „NOTICE“ and no warning triangle indicates a warning of possible property damage.

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Indicates situations that are not associated with a risk of personal injury, but which could damage the product or an object in the vicinity.

1.8 Maintenance, servicing, troubleshooting

- Prescribed adjustment and maintenance work in accordance with the maintenance schedule must be carried out on time.
- Inform operating personnel before carrying out adjustment and maintenance work.
- The air supply must be switched off and disconnected from the device.
- The device must be secured to prevent any accidental supply of air.
- Check that all screwed and fitting connections are tight.

After completion of the work, all safety devices and all operating functions must be checked and documented.

1.9 Warranty and liability

Warranty and liability claims for personal injury and property damage are excluded if they are attributable to one or more of the following causes:

- Improper use of the product.
- Work not carried out by qualified persons.
- Improper transport, storage, assembly, commissioning, operation and maintenance of the product.
- Failure to observe the instructions in the operating manual regarding safety, transport, storage, installation, operation, commissioning, maintenance and set-up of the product.
- Operating the product with defective safety devices or improperly installed or non-functional safety and protective devices.
- Structural changes to the product.
- Inadequate monitoring of machine parts that are subject to wear.
- Improperly carried out repairs and use of third-party parts.
- Catastrophes and force majeure events.

2. Device description

2.1 Intended use

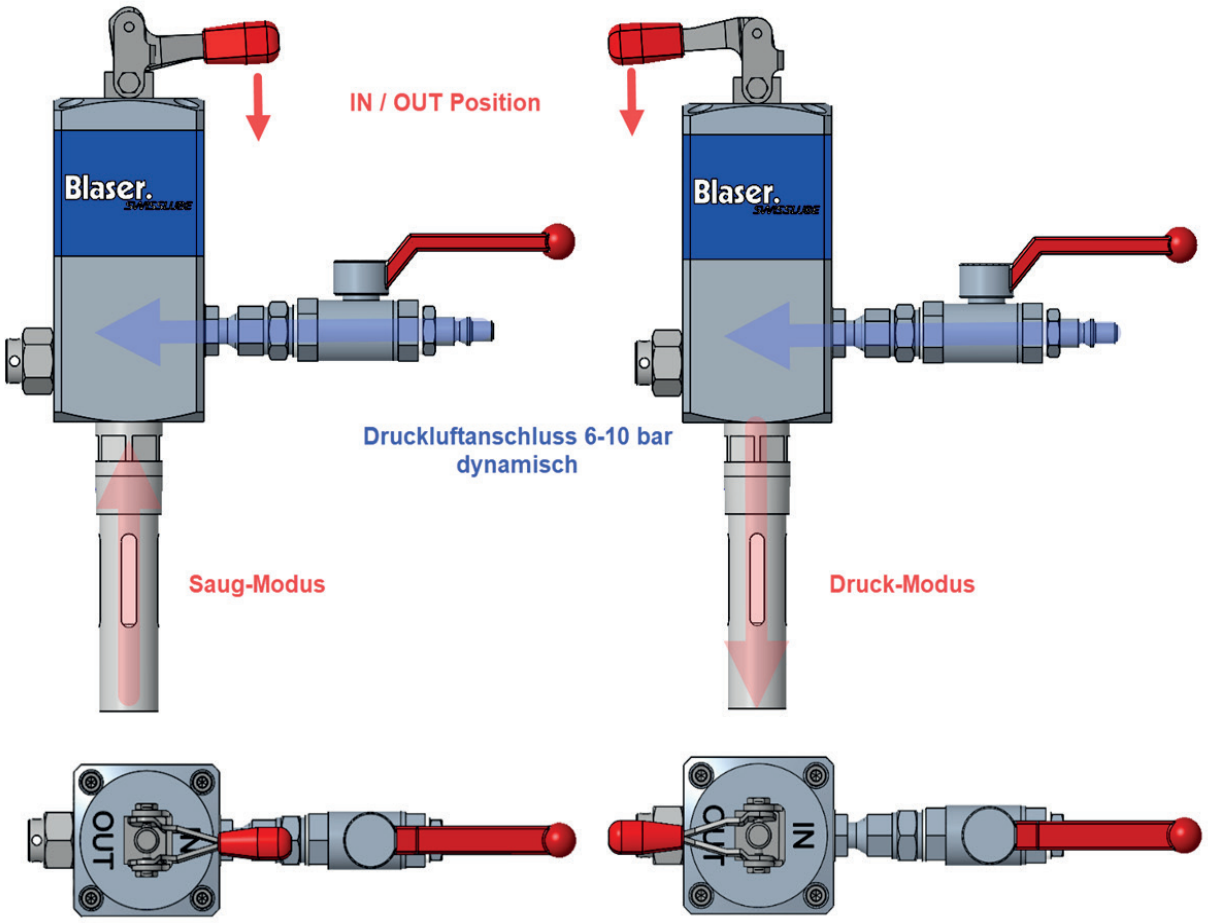
The Fluid Extractor is intended to be used for suctioning up floating residues (tramp oil, chips etc.) and emptying the metalworking fluid tanks of machines.

WARNING

Using this system in any other way creates a risk of personal injury and property damage.

2.2 How the Fluid Extractor works

The pneumatic suction unit and the hose are mounted on a standard 208 l Blaser drum that conforms to DIN EN ISO 1579-2:2008-09. The hose and suction pipe provide a convenient method of emptying machines, including suctioning up metal chips. The suction unit requires compressed air only; it does not use electricity. The device can be switched between suction mode and pressure mode using the mode selector lever. The overflow preventer (float) prevents the drum overflowing in suction mode. Its size and features make the device easy and convenient to use. A compressed air connection (6-10 bar dynamic) and an undamaged 208 l drum (conforming to DIN EN ISO 1579-2:2008-09) are all that are required to operate the device.



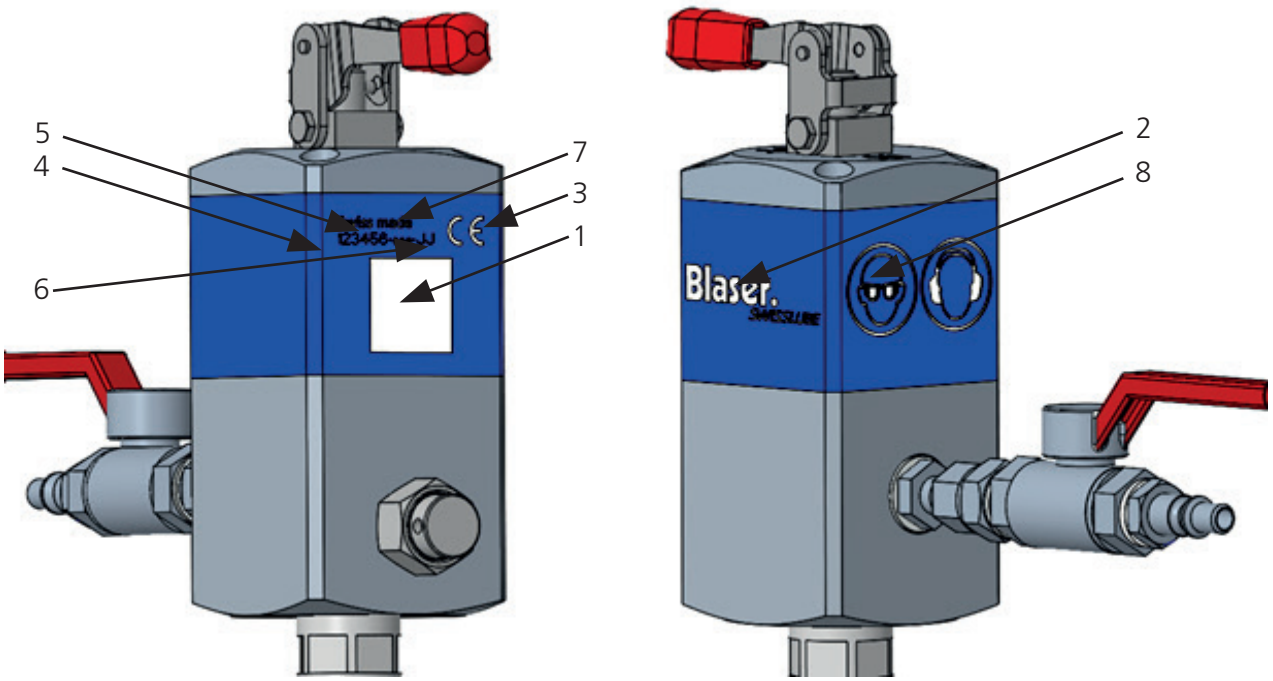
Druckluftanschluss 6-10 bar dynamisch = compressed air connection (6-10 bar dynamic) / Saug-Modus = Suction mode / Druck-Modus = Pressure mode

2.3 General view / operating elements

1 Pneumatic suction unit with overflow preventer and mode selector lever
2 Compressed air connection with valve
3 2“ Standpipe, threaded, with hose connector
4 3 m Hose, Ø 40 mm, with suction pipe and 90° coupling
5 Mode selector lever
6 Compressed air valve
7 Compressed air hose (not included in scope of supply)

2.4 Markings

The markings on the Fluid Extractor pneumatic suction unit are shown below. These markings provide important information for the precise identification of the device.
Marking:



1 QR code for online documentation
2 Company name
3 CE mark
4 PA number
5 Serial number
6 Year of production
7 Swiss made
8 Personal protective equipment (symbols)

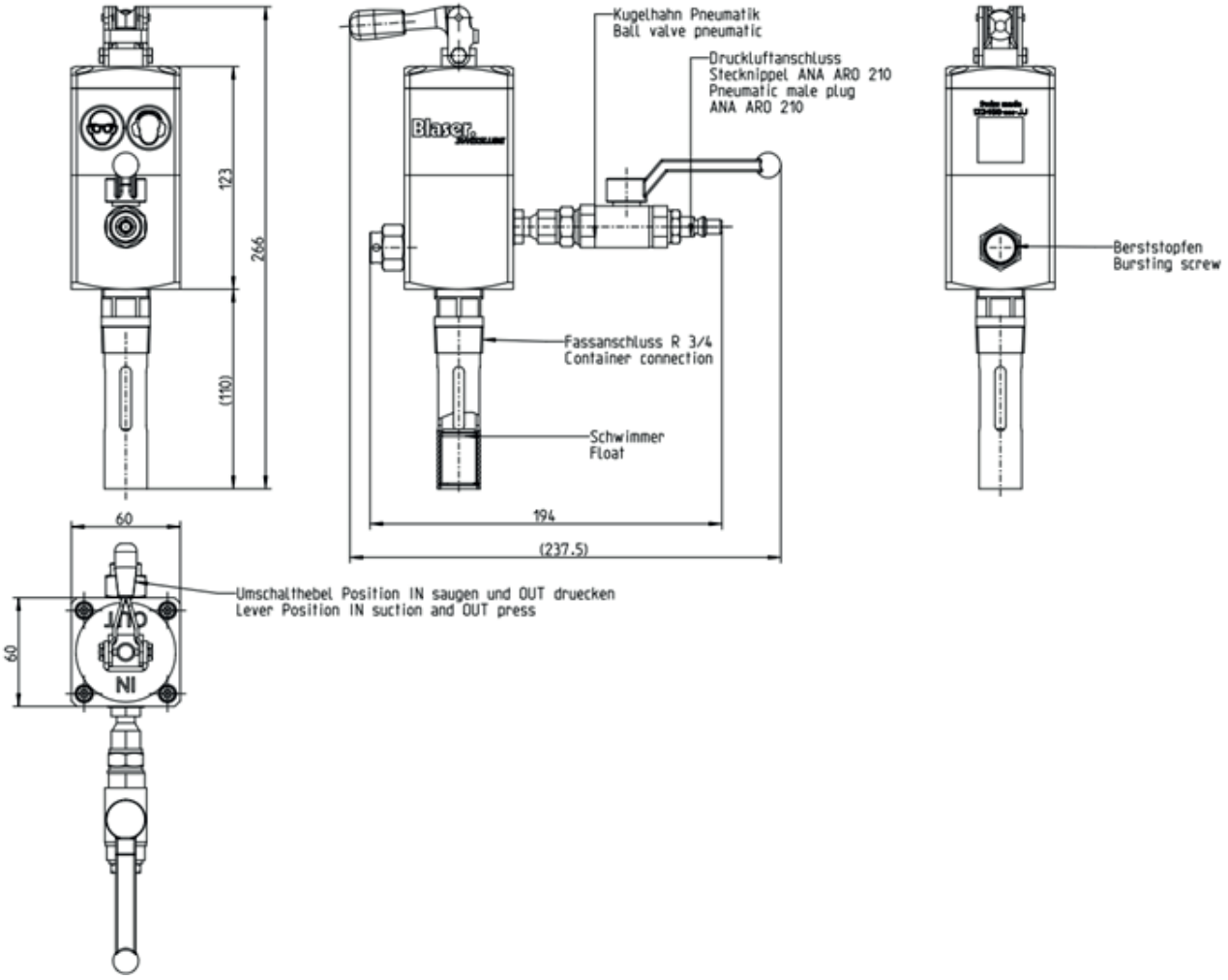
NOTICE

The details presented on the device must be specified when seeking technical support and ordering replacement parts.

2.5 Scope of supply

- 1x Fluid Extractor suction unit
- 1x Standpipe
- 1x Hose with suction pipe and coupling
- 1x Operating manual
- 1x Packaging

2.6 Technical data / Dimension sheet



Designation	Fluid Extractor	Unit
Design	with burst plug	-
Model	V.3	-
Compressed air – required pressure	6-10	bar (dynamic)
Pneumatic connection	Coupling nipple ANA ARO 210	-
Housing material	Anodized aluminum	-
Drum size	208	lt
Drum – must conform to standard	DIN EN ISO 1579-2:2008-09	-
Weight	4.8	kg
Application medium	Water-miscible metalworking fluids	-
Emission level L_{pa}	up to 90	dB (A)
Burst plug burst pressure	2	bar

3. Packaging, transport and storage

The product is prepared by Blaser for transport to its first destination. The packaging unit must not be exposed to overloading. The packaging and its contents must be protected from the effects of moisture. The transport temperature between +5°C and + 40°C must be maintained.

If transport damage is discovered during the incoming goods inspection, proceed as follows:

- Notify the deliverer (carrier, etc.)
- Record damage report
- Inform supplier

Storage and temporary storage in an aggressive, damp environment or outdoors can lead to corrosion and other damage.

4. Installation site

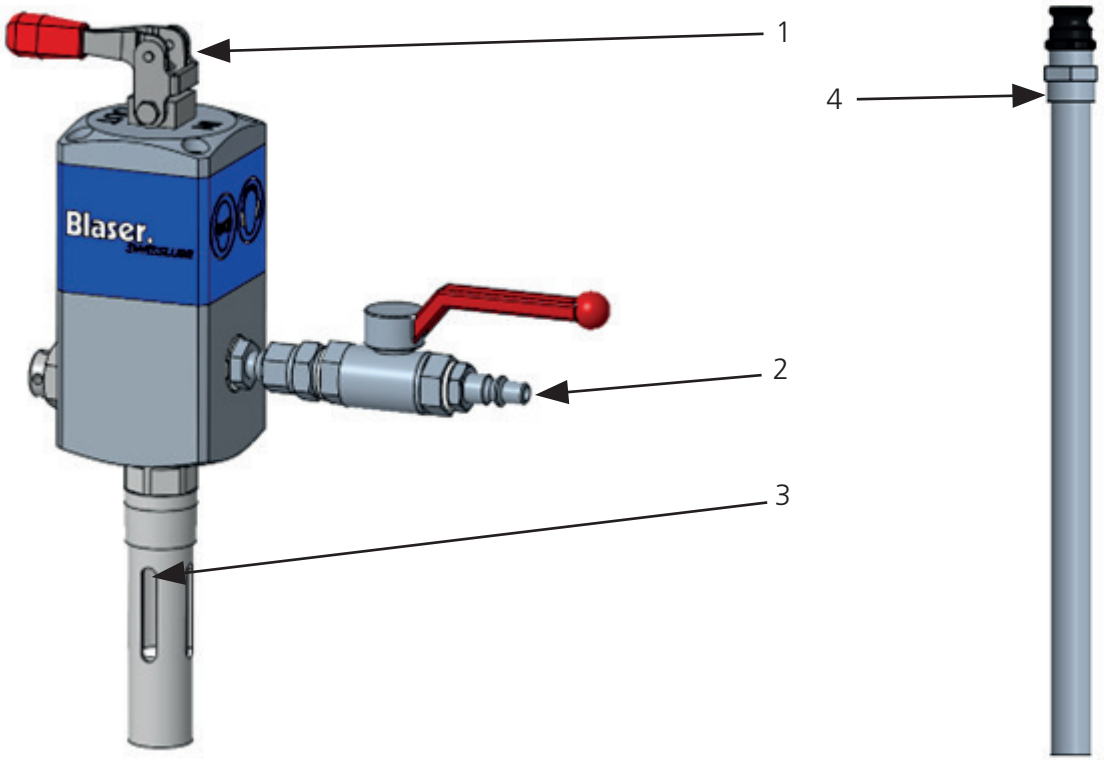
All legal requirements must be clarified on site and compliance with them ensured. The floor and space conditions must be clarified before setting up the device in order to ensure long-term safe operation for personnel and device. The Fluid Extractor must be installed in such a way that safe operation is assured on an ongoing basis.

The device must be positioned so that it will not come into contact with live devices or connections.

Media that end up on the floor during installation, operation or maintenance create a slip hazard and must be cleaned up immediately.

The Fluid Extractor has been constructed for operation in weather-proof premises.
Operation and storage outdoors or in an aggressive, excessively humid environment can lead to damage for which the manufacturer assumes no liability.
Connection specifications and commissioning are described in the following chapters.

5. Interface definition



1 Mode selector lever

The mode selector lever has two positions corresponding to the two different operating modes:

- „IN“ for suctioning up the content of a metalworking fluid tank into the 208 l drum
- „OUT“ for emptying the 208 l drum

2 Pneumatic connection

Pneumatic connection with an ANA ARO 210 coupling nipple. A dynamic input pressure of 6-10 bar is required for problem-free operation of the Fluid Extractor. The supply line must be large enough to supply up to 600 l/min of compressed air. Kinks and constrictions in the supply line can cause a loss of suction performance.

3 Outlet/inlet

The suction unit, which has an R3/4“ drum adapter, is screwed into the bung hole of the 208 l drum. Metalworking fluid is drawn into the container by negative pressure or forced out of the container by positive pressure, depending on the position of the mode selector lever.

4 Standpipe

The standpipe, which has a 2“ thread, is screwed into the bung hole of the 208 l drum. The 3 m hose with suction pipe and 90° coupling is connected to the standpipe.

6. Initial commissioning

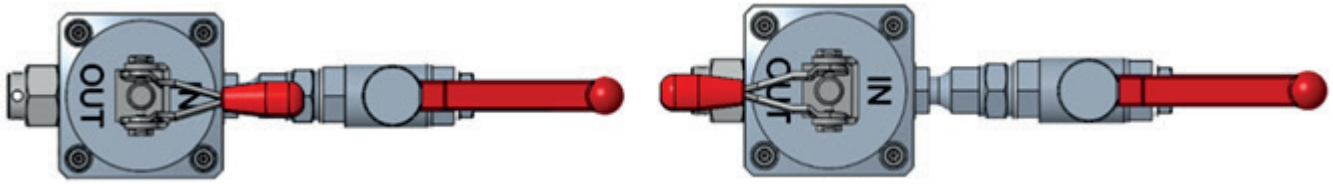
Position an undamaged 208 l container that conforms to DIN EN ISO 1579-2:2008-09 upright in a suitable location (on a pallet or drum trolley where applicable).
Remove the 3/4“ and 2“ bungs from the drum.
Screw the pneumatic suction unit (1 / page 9) into the 3/4“ bung hole.
Insert the 2“ standpipe (3 / page 9) into the corresponding bung hole on the drum and screw it tightly into place.
Connect the hose (4 / page 9) to the standpipe with the hose connector.
Connect the compressed air supply (7 / page 9) to the pneumatic suction unit (1 / page 9).

NOTICE

Leaks in the system reduce suction performance. Threaded connections should additionally be sealed with Teflon tape if necessary.

7. Operation

The device has two different operating modes.
It operates in suction mode when the lever is in the „IN“ position and empties the drum when the lever is in the „OUT“ position.



7.1 Suction
Following initial commissioning, move the mode selector lever on the suction unit (5 / page 9) to the „IN“ position. The suction process is started by opening the compressed air valve (6 / page 9). Close the compressed air valve (6 / page 9) to end the suction process. Then raise the hose up in the air so that the fluid in the hose can run down into the drum. As the drum approaches capacity, the integral float shuts off the vacuum. When this happens, the suction process should be stopped and the hose drained as described above.

Take care to avoid trapping hands when opening and closing the compressed air valve.

Use eye, hand and ear protection (in accordance with EN ISO 7010)

7.2 Emptying the drum

Once the device has completed initial commissioning and suctioned up the metalworking fluid, the full 208 l drum can be emptied into a larger container. To do this, first move the mode selector lever on the suction unit (5 / page 9) to the „OUT“ position. Now open the compressed air valve (6 / page 9) to start emptying the drum. Close the compressed air valve (6 / page 9) to end the emptying process.

Only undamaged drums that conform to DIN EN ISO 1579-2:2008-09 may be used.

Take care to avoid trapping hands when opening and closing the compressed air valve.

Use eye, hand and ear protection (in accordance with EN ISO 7010).

8. Decommissioning

8.1 Shorter pauses in use

Complete the following steps when taking the Fluid Extractor out of use:

- Close the compressed air valve and disconnect the device from the compressed air connection.
- Raise the hose up in the air so any metalworking fluid remaining in the hose runs back into the 208 l drum.

8.2 Longer pauses in use

Complete the following steps when taking the Fluid Extractor out of use for a prolonged period or for servicing:

- Close the compressed air valve and disconnect the device from the compressed air connection.
- Raise the hose up in the air so any metalworking fluid remaining in the hose runs back into the 208 l drum.
- Disconnect the hose from the standpipe.
- Unscrew the pneumatic suction unit and standpipe from the container and clean with a cloth.
- Seal the drum and, where applicable, dispose of properly.

Risk of accidents and environmental hazards: Ensure that no emulsion is spilled. The emulsion must be disposed of properly (hazardous waste).

Media that end up on the floor during installation, operation or maintenance create a slip hazard and must be cleaned up immediately.

9. Troubleshooting and fault rectification

Fault	Possible cause/remedy
Inadequate dynamic pneumatic pressure (<6 bar)	Eliminate constrictions in the supply line. Open the valve completely. Check the compressor. Pressure drop-off in operation due to undersized air line or inadequate air volume.
Suction performance drop-off	Clean the nozzle. 208 l drum full; empty or change container. Upper and lower parts of nozzle misaligned. Leak in system Check hose, drum and seal in drum.
Burst disk has burst	Excessive pressure in the system when emptying the drum. Return device to the manufacturer.
Unauthorized modification of the device (dismantling, installation of third-party accessories, modifications, etc.)	Revert modifications.

All work on the machine must only be carried out when it is at a standstill. The air supply must be switched off and the device must be disconnected from the supply line.

Use eye and hand protection (in accordance with EN ISO 7010)

10. Maintenance, servicing

This chapter tells you how to maintain the device. The overview shows you what needs to be serviced or checked and when.

NOTICE

Repairs and corrective maintenance in the event of damage should only be completed by trained specialist personnel or the manufacturer's customer service team.

10.1 Maintenance schedule

The specified maintenance intervals refer to single-shift operation. Maintenance tasks may need to be completed more frequently in the case of multi-shift operation and/or if the conditions of use are particularly demanding. Additional influences such as the cleanliness of the working environment must also be taken into account.

WHEN	WHAT	HOW	WHO
Before use	Operation of the mode selector lever	Change operating mode	User
Weekly	Clean device	With a soft cloth and all-purpose cleaner	Specialist personnel of the operating company
Monthly	Check the condition of the hoses and seals	Visual inspection for leaks	Specialist personnel of the operating company

CAUTION

Before commencing any work on the device, shut it down completely, switch off the air supply and disconnect the device from the supply line.

CAUTION

Risk of accidents and environmental hazards: Ensure that no emulsion is spilled. The emulsion must be disposed of properly (hazardous waste).

11. Disposal

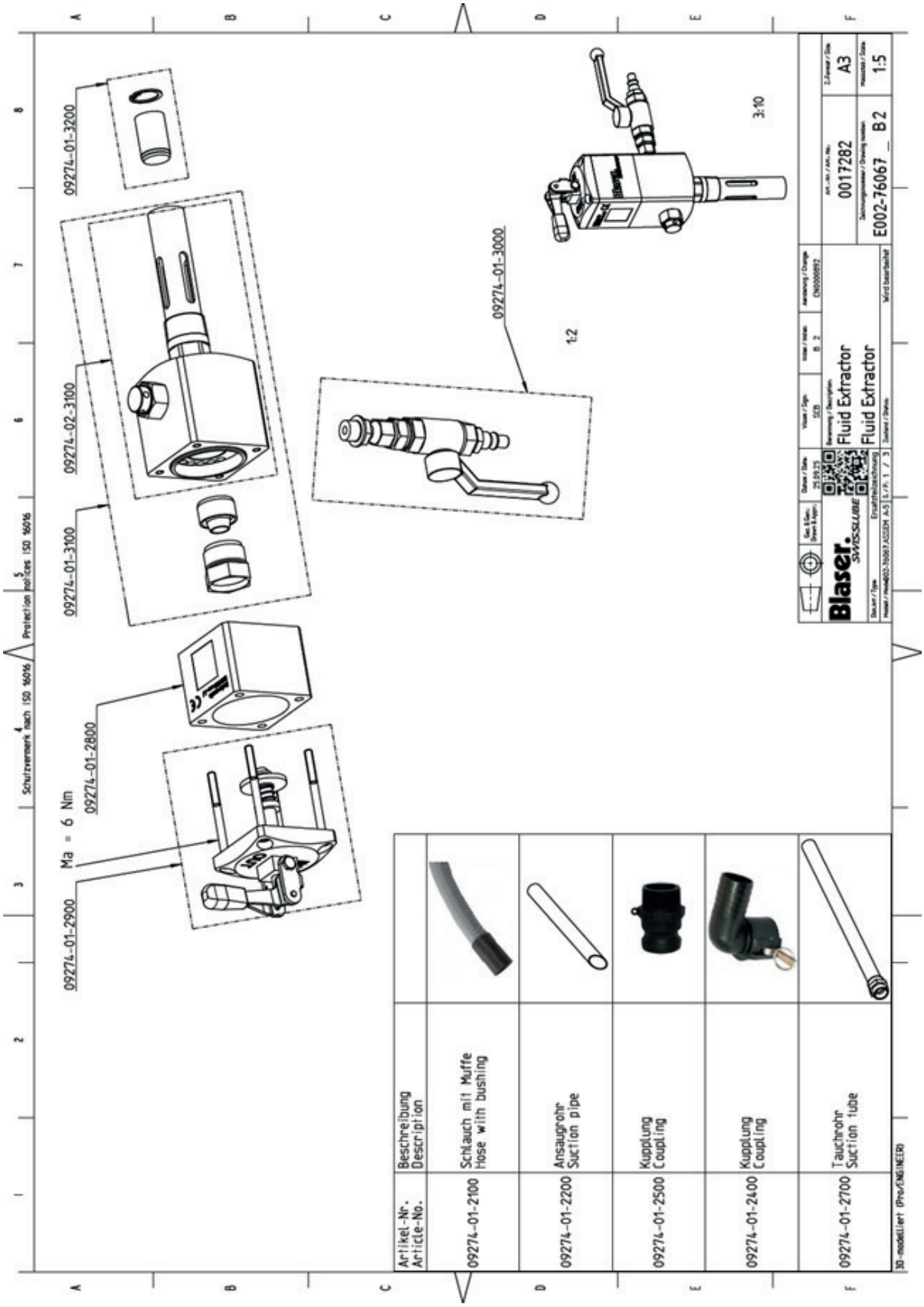
The various materials / liquids must be handled professionally and separately in accordance with the relevant national regulations and disposed of.

Product	Material	Disposal
Housing, rods, pipes	Steel and aluminum	Separate metals and send for recycling
Hose, gaskets Coupling and standpipe	Rubber, plastics	Separation of materials, feeding for recycling
Concentrate, emulsion	According to the manufacturer's safety data sheet	The metalworking fluid manufacturer's disposal instructions must be observed

Before commencing any work on the device, shut it down completely, switch off the air supply and disconnect the device from the supply line.

Be careful not to spill any emulsion. Take appropriate precautionary steps in advance to ensure any emulsion spilled is caught.

12. Replacement parts



Item	Designation	Info
09274-01-2100	Replacement hose with coupling sleeve at both ends	
09274-01-2200	Replacement suction pipe	
09274-01-2300	Replacement flat gasket	for Kamlok coupling
09274-01-2400	Pipe elbow 90° w. hose conn.	
09274-01-2500	Mating comp. for pipe elbow 90°	
09274-01-2700	Replacement dip tube	
09274-01-2800	Replacement housing changeover valve	
09274-01-2900	Replacement set changeover valve	
09274-01-3000	Replacement set shut-off valve	
09274-01-3100	Replacement set base unit with nozzle	Conversion set, V1 & V2 to V3
09274-02-3100	Replacement set base unit	
09274-01-3200	Replacement set float	

13. EC Declaration of Conformity

EG-Konformitätserklärung

im Sinne der Maschinenrichtlinie 2006/42/EG, Anh. II 1. A

Original

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Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller

Blaser Swisslube AG

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In der Gemeinschaft ansässige Person, die bevollmächtigt ist, die relevanten technischen Unterlagen zusammenzustellen

Blaser Swisslube AG

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Beschreibung und Identifizierung der Maschine

Produkt	Fluid Extractor
Typ	-
Seriennummer	Produktionsauftragsnummer - fortlaufende Nummerierung (neu startend bei jedem PA) - zweistellige Jahreszahl
Projektnummer	PR001519
Handelsbezeichnung	-
Auftrag	-
Modell	V3
Zusatzangaben	-
Chargennummer	-
Funktion	Der Fluid Extractor saugt aufschwimmende Rückstände (z.B. Fremdöl, Späne, etc.) ab und kann auch zum Entleeren von Emulsionen in Maschinen und Behältern verwendet werden. Die pneumatische Einheit und der Schlauch werden für den Gebrauch auf ein Fass (208 Liter) montiert. Hierbei kann zwischen Saug- oder Druck-Modus gewählt werden. Ein Überlaufen wird im Saug-Modus durch die Überfüllsicherung verhindert. Zur Verwendung des Gerätes ist ein Druckluftanschluss (6-10 bar) nötig.

Es wird ausdrücklich erklärt, dass die Maschine allen einschlägigen Bestimmungen der folgenden EG-Richtlinien bzw. Verordnungen entspricht:

2006/42/EG	Richtlinie 2006/42/EG des Europäischen Parlaments und des Rates vom 17. Mai 2006 über Maschinen und zur Änderung der Richtlinie 95/16/EG (Neufassung) Veröffentlicht in L 157/24 vom 09.06.2006

Hasle-Rüegsau, 25.09.2025

Ort, Datum	Unterschrift Rolf Schneider Head of Services Blaser AG	Unterschrift Benjamin Iseli Product Manager ABNOX AG

Seite 1/1

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