

KBSG 01_Continental

Cooling system filling and flushing device



Product information



Product: Cooling system filling and flushing device KBSG 01_Continental

Manufacturer

Autotestgeräte LEITENBERGER GmbH, Bahnhofstraße 33, 72138 Kirchentellinsfurt, Germany

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1. Safety

1.1 General safety notes and regulations

To ensure safe and reliable work with the product and to protect the user from injuries, the following points are to be observed:



- Read the operating instructions carefully.

- The cooling system filling and flushing device may be operated by trained personnel and be used on vehicles and systems only.
- The user must have the necessary technical knowledge and qualifications for the area of application and must be familiar with and observe the relevant applicable standards, regulations and specifications.
- The operating instructions are part of the cooling system filling and flushing device.
- Store the operating instructions in a safe location so that you can quickly find the desired information if necessary.
- The legal provisions and regulations as well as those of the vehicle/system manufacturer are generally to be observed.
- Do not subject the cooling system filling and flushing device to any extreme temperatures, direct sunlight, extreme humidity or wet.



1.2 Information on use

- Prior to commissioning, perform a check to ensure that the cooling system filling and flushing device and all its components are in faultless condition.

Do NOT operate the cooling system filling and flushing device if damaged.



- Do not make any technical modifications to the cooling system filling and flushing device.
- Use the electric pump only for delivering coolant or distilled water.
- Do not operate the electric pump in a potentially explosive atmosphere.
- Use only original spare parts and accessories from Autotestgeräte Leitenberger GmbH.
- Non-specified use of the product or failure to observe the safety and operating notes may lead to severe malfunctions as well as personal injury and property damage.
- Wear personal protective equipment, such as protective goggles, gloves, safety shoes, etc. when working on the cooling system filling and flushing device.



- Take care if the cooling system is hot – risk of burns.
- Do not make any design-related changes to the cooling system filling and flushing device.

1.3 Explanation of symbols

Warning notices and important information are marked in this document with symbols for better identification.

The notices begin with signal words that indicate the extent of the danger. You must absolutely comply with these notices and information and handle the device with care to prevent accidents and avoid personal injury and property damage.



DANGER

Notice indicating a dangerous situation which, if not avoided, will result in death or severe injury.



WARNING

Notice indicating a dangerous situation which, if not avoided, could result in death or severe injury.



CAUTION

Notice indicating a dangerous situation which, if not avoided, could result in minor to moderate injury.



Attention

Notice indicating a dangerous situation which, if not avoided, could result in property damage.



Note

Notice including useful tips, recommendations and information for efficient and trouble-free operation of the cooling system filling and flushing device.

1.4 Intended use

The **KBSG 01_Continental** cooling system filling and flushing device is used exclusively for flushing vehicle/engine cooling systems in accordance with the specifications of the vehicle/engine manufacturer, checking the systems for leak tightness and filling them with coolant without bubbles.



WARNING

Danger from improper use.

Any improper use and failure to observe safety and operating notices can result in serious malfunctions as well as personal injury and property damage.

- Only use the cooling system filling and flushing device in accordance with its intended use.
- All information in the operating instructions must be strictly complied with.

1.5 Disclaimer

Failure to comply with the intended use will immediately void any warranty and guarantee claims against the manufacturer. No liability is accepted for damage or malfunctions caused by improper use, assembly errors or failure to observe the operating instructions.

1.6 Ambient conditions

The cooling system filling and flushing device is to be used only in commercial workshops.

The climatic requirements correspond to the conditions typically prevailing in Central Europe.

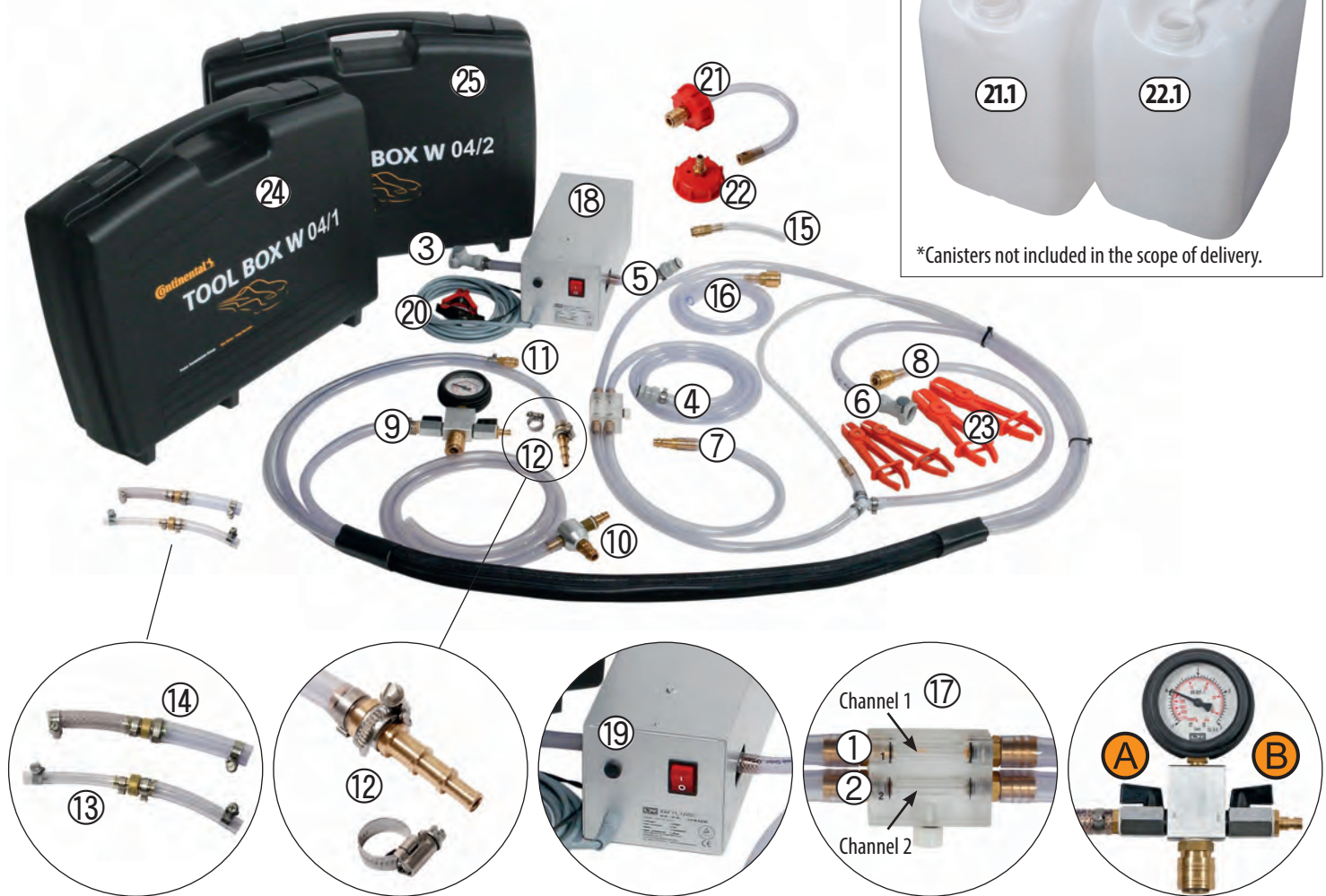
Optimum function is ensured between -10 °C and +50 °C. The device must be stored within a temperature range of -20 °C to + 50°C.

The cooling system filling and flushing device and its components must be secured against falling.

2. Product description

The **KBSG 01_Continental** cooling system filling and flushing device is used for flushing the cooling system, checking for leak tightness and filling without bubbles. Compressed air is required in order to evacuate the cooling system.

2.1 Device view / delivery scope



Item	Description
1	Channel 1 (on block 17)
2	Channel 2 (on block 17)
3	Suction line coupling (pump)
4	Suction line plug
5	Pressure line plug (pump)
6	Pressure line coupling
7	Suction hose – container
8	Drain hose – container
9	Valve block with pressure gauge and shut-off valve (A) + (B)
10	Venturi nozzle
11	Drain hose (to reduce pressure at valve block)
12	Flushing hose with stepped adapter Ø 8/10/12/15 mm and hose clamp
13	Sealing hose Ø 8/10 mm, with hose clamp

14	Sealing hose Ø 12/15 mm, with hose clamp
15	Cleaning adapter
16	Suction adapter
17	Sight glass (for checking filling process)
18	EAP 11_12VDC_Continental pump
19	ON/OFF switch (pump)
20	Battery clamps for 12 VDC (pump power supply)
21	Sealing cap DIN 61 for "new fluid" container
21.1	Container 30 l* with sealing cap DIN 61 (for new fluid)
22	Sealing cap DIN 61 for "used fluid" container
22.1	Container 30 l* with sealing cap DIN 61 (for used fluid)
23	Hose clamps (4x)
24+25	Storage case
A + B	Shut-off valves on valve block

3. Prior to commissioning

3.1 Check the scope of delivery

3.2 Requirements

- Expansion tank of the cooling system must be empty.
- Determine the volume of the cooling system (see the vehicle operating instructions).
- Coolant must be available in sufficient quantity and quality.
- Distilled water must be available in sufficient quantity.
- Corroded parts and dirt must never be allowed to enter the cooling system filling and flushing device or the cooling system to be filled.
- A vehicle diagnostics tester may be required in order to bleed the cooling system.
- Compressed air connection between 7 and 10 bar for the venturi nozzle.
- Connect a battery charger to the vehicle.
- Two commercially available 30 litre DIN 61 canisters (transparent or white), where possible with litre scale, are required as they are not included in the scope of delivery.

3.3 Preparing cooling system filling and flushing device

Before using the device, we recommend that you first check the cooling system filling and flushing device and the valve block (9).

- Close shut-off valve (A) and (B) on the valve block (9). Connect the workshop compressed air supply to the plug nipple of the venturi nozzle (10).
- Open shut-off valve (B) on the valve block (9). The vacuum indicator on the pressure gauge must show approx. -0.85 bar.
- Close shut-off valve (B) on the valve block (9). Disconnect the compressed air supply.

The vacuum indicator must remain constant!

This tells the user

- a) that the compressed air supply/venturi nozzle is OK,
- b) that the device is in correct working order.

After completing the check, open shut-off valve (B) again (pressure reduces to atmospheric pressure).

The vacuum indicator must show 0. If the indicator does not show 0, the pressure gauge is defective.



CAUTION:

Risk of injury/burns caused by hot surfaces, objects or media.

Hot cooling systems may be under pressure.

When the radiator sealing cap is opened or removed, steam or hot water can escape or spray out.

- Allow the system to cool down until it is no longer under pressure.
- Wear personal protective equipment, such as protective goggles, gloves and safety shoes when working on the cooling system.
- Remove the radiator cap of the vehicle, use a suitable test adapter from toolbox W 01 and screw onto the opening of the expansion tank.

4. Operation (application example: VW Golf 7 2.0 TDI)



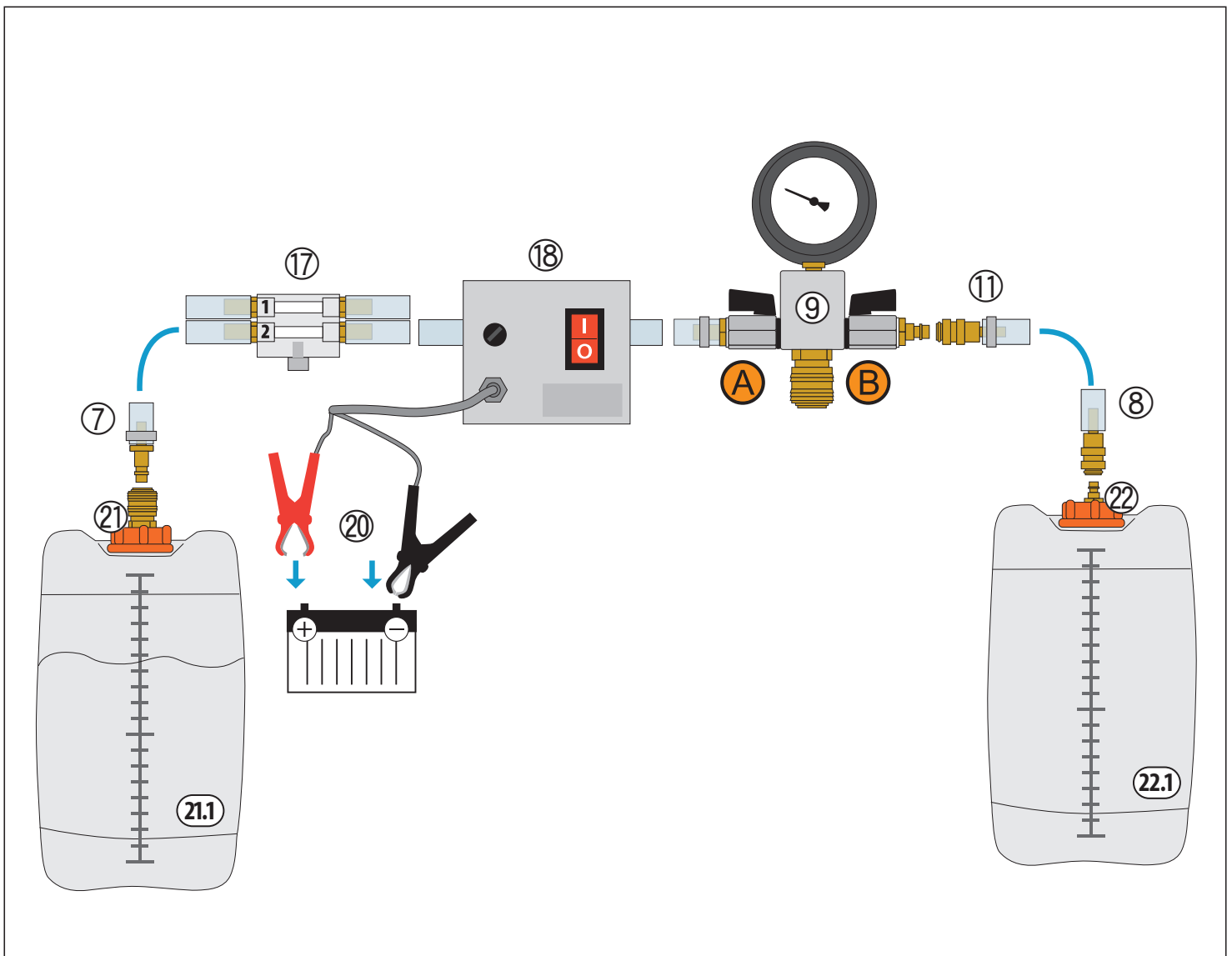
ATTENTION:

Observe the work instructions, requirements and specifications from the vehicle/engine manufacturer.



Note:

- Where possible, the coolant has been drained off.
- The various cooling circuits are flushed by alternately clamping off the respective bleed hoses.
- The flushing quantity depends on the flushing result. Sight glass 17 [1 = return/old; 2 = feed/new] indicates the degree of flushing.
When the colour of the liquid in channel 1 (return/old) and channel 2 (feed/new) visible in the sight glass (17) is identical, the cooling circuit is completely flushed.
It is often the case that the colour does not become completely identical until the second flushing cycle.



4.1 Connecting cooling system filling and flushing device

- Fill the container (21.1) with a sufficient quantity of distilled water or with the quantity specified by the vehicle manufacturer. (With the vehicle used in this example: 20 litres)
- Connect the suction line plug (4) to the suction line coupling (pump) (3).
- Connect the pressure line plug (pump) (5) to the pressure line coupling (6).
- Connect the suction hose (7) to the container (21.1).
- Connect the drain hose (8) to the container (22.1) and the drain hose (11) to the side of shut-off valve (B) on the valve block (9).
- Connect the battery clamps (20) to the vehicle battery; support the vehicle battery in accordance with the specifications from the vehicle manufacturer.
- Bleed the cooling system filling and flushing device. When doing so, make sure that shut-off valve (A) and (B) on the valve block (9) are closed.
- Switch on the pump (18), open shut-off valve (A) on the valve block (9), briefly open shut-off valve (B) on the valve block (9) until liquid arrives at the valve block.
- Close shut-off valves (A) and (B).
- Connect the valve block (9) to the test adapter on the expansion tank.
- Disconnect the drain hose (11) from the valve block (9).
- Disconnect the venturi nozzle (10) from the valve block (9).
- Run the extracted air hose of the venturi nozzle into a container (in case any residual water is discharged).

4.2 Evacuating cooling system

- Make sure that shut-off valve (A) and (B) on the valve block (9) are closed (**Fig. 1**).
- Connect the workshop compressed air supply to the quick coupling of the venturi nozzle.



Note:

The applied airflow produces a hissing noise in the venturi nozzle. This is normal.

- Open shut-off valve (B) on the valve block (6) (**Fig. 2**). A vacuum is now generated in the cooling system. Evacuate (generate vacuum) until a vacuum of min. -0.85 bar is reached.
- Close shut-off valve (B) on the valve block (9) and disconnect the compressed air supply.



Note:

In the cooling system, the vacuum causes deformation of the associated hoses.

- Disconnect the venturi nozzle (10) from the valve block (9).

4.3 Tightness test

- Maintain a vacuum in the cooling system for approx. 1 minute. Watch the pressure gauge indicator.
- If the vacuum reduces, this is an indication of a leak in the cooling system. If the vacuum remains constant, you can proceed with filling the cooling system.

4.4 Filling cooling system with distilled water

- Make sure that the pump (18) is switched on.
- Slowly open shut-off valve (A) on the valve block (9); distilled water is drawn into the cooling system by the vacuum and additionally pushed in by the pump.
- As soon as the pressure gauge on the valve block (9) indicates overpressure of approx. 1 bar, close shut-off valve (A) on the valve block (9) and stop the filling process.
- Connect the drain hose (11) to the valve block (6).
- Slowly open shut-off valve (B) on the valve block (9); the overpressure in the cooling system is reduced.

4.5 Flushing cooling system (with distilled water)



CAUTION

Risk of injury/burns caused by hot surfaces, objects or media.

When working on the cooling system while it is hot, steam or hot water can escape or spray out.

Wear personal protective equipment, such as protective goggles, gloves and safety shoes when working on the cooling system.



CAUTION

Risk of injury caused by rotating and moving parts. Rotating and moving parts such as fan impellers, shafts, discs, etc. can entangle persons or eject objects. Secure moving parts adequately and do not introduce any people or objects into the danger area. Only start the engine under supervision.

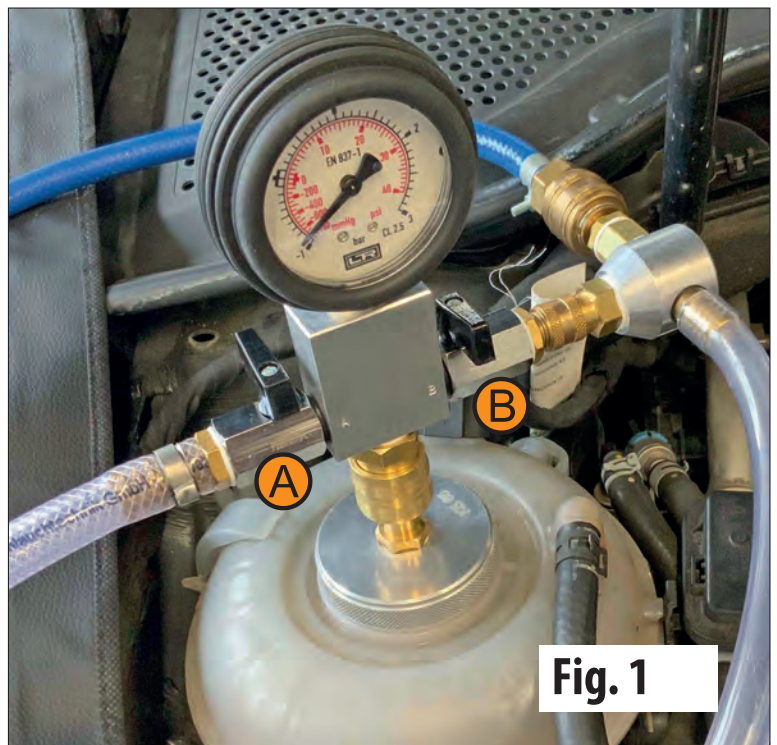


Fig. 1

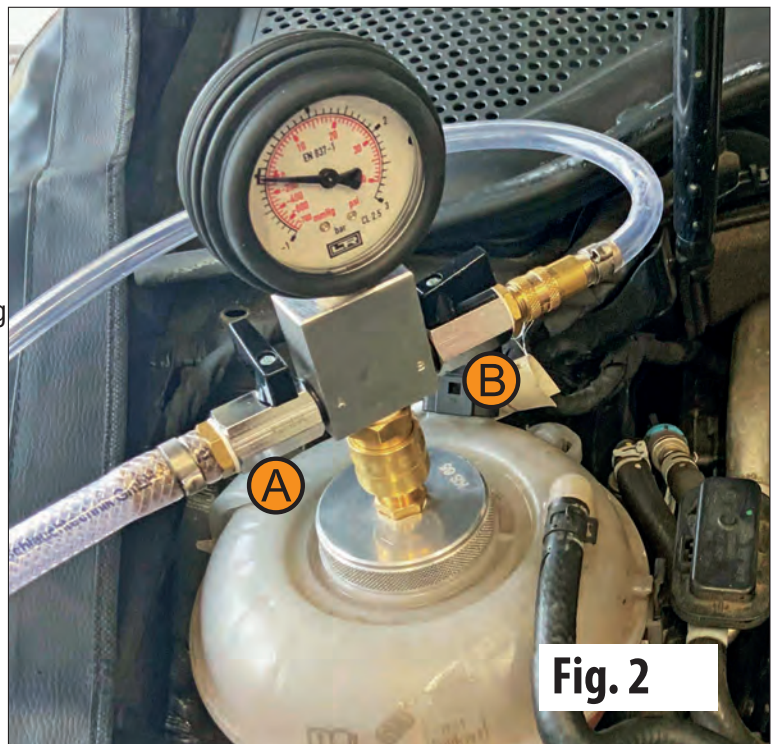


Fig. 2



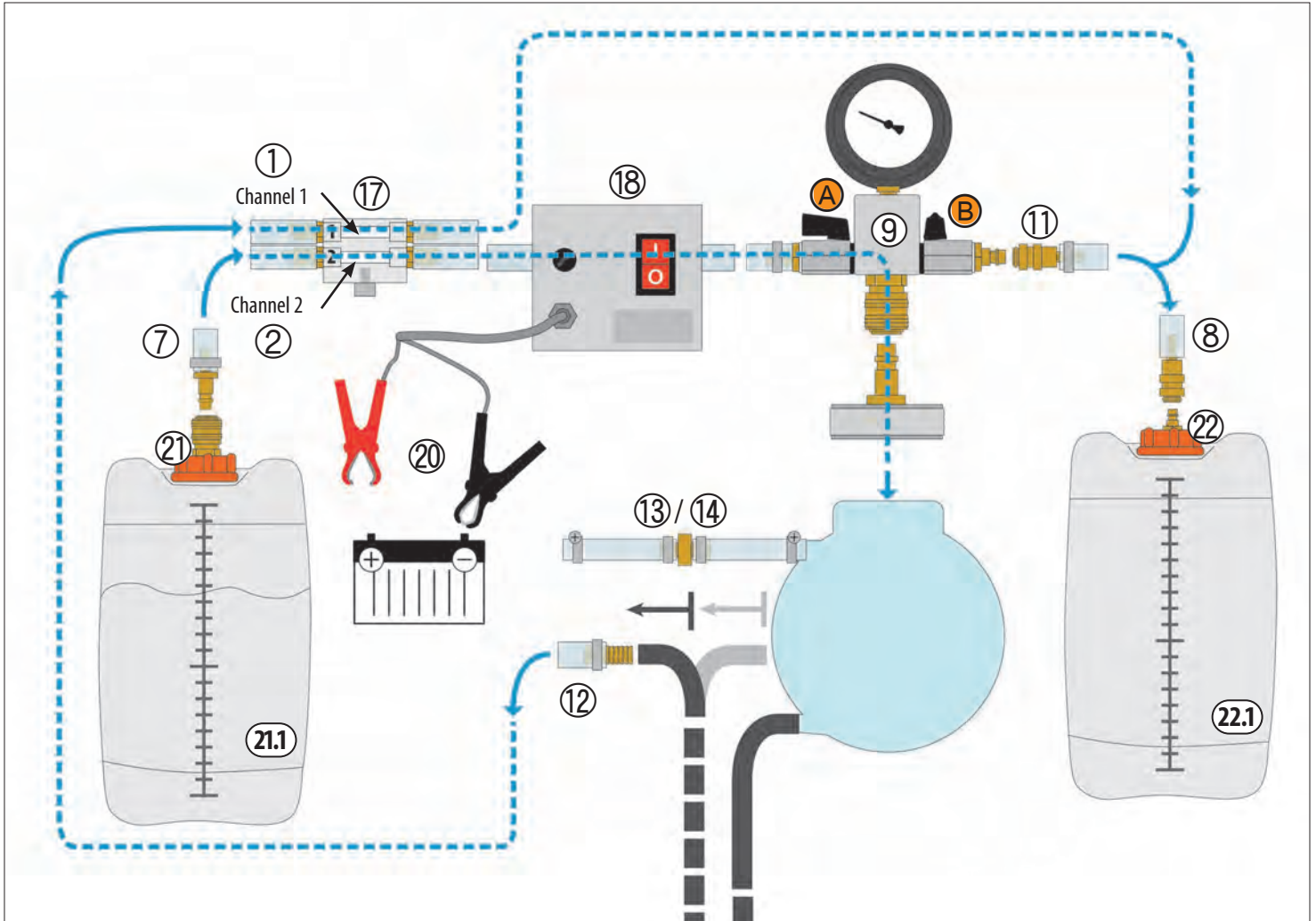
ATTENTION:

The requirements and procedures specified by the vehicle manufacturer for the flushing process differ depending on the type and design of the vehicle, cooling system and its components. For example, the requirements for performing the flushing process with the engine running or with the engine switched off, or the requirements for clamping off individual lines. Observe the work instructions, requirements and specifications from the vehicle/engine manufacturer.



Note:

In the case of the example vehicle, the cooling system is flushed with approx. 12 litres of distilled water. The distilled water is then replaced with fresh coolant mixture (do not reuse used coolant).



- Prepare the vehicle as specified by the vehicle manufacturer, ensure that all relevant areas are accessible and remove components if necessary.
- Make sure that shut-off valve (A) on the valve block (9) is closed and shut-off valve (B) on the valve block (9) is open.
- Remove the bleed hose of the coolant expansion tank using suitable tools, connect to the stepped adapter of the flushing hose (12) and secure using the hose clamps.
- Attach the appropriate sealing hose (13 or 14) to the connecting piece of the coolant expansion tank and secure using the hose clamp.
- Close shut-off valve (B) on the valve block (9) (**Fig. 3**).

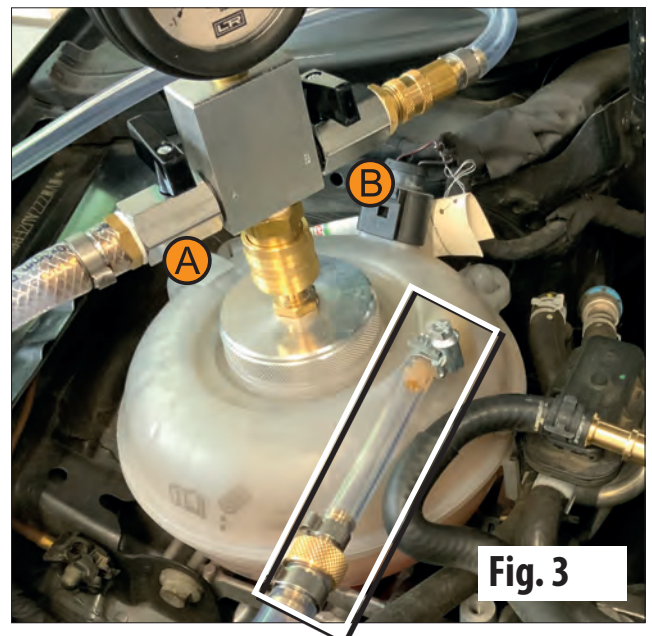
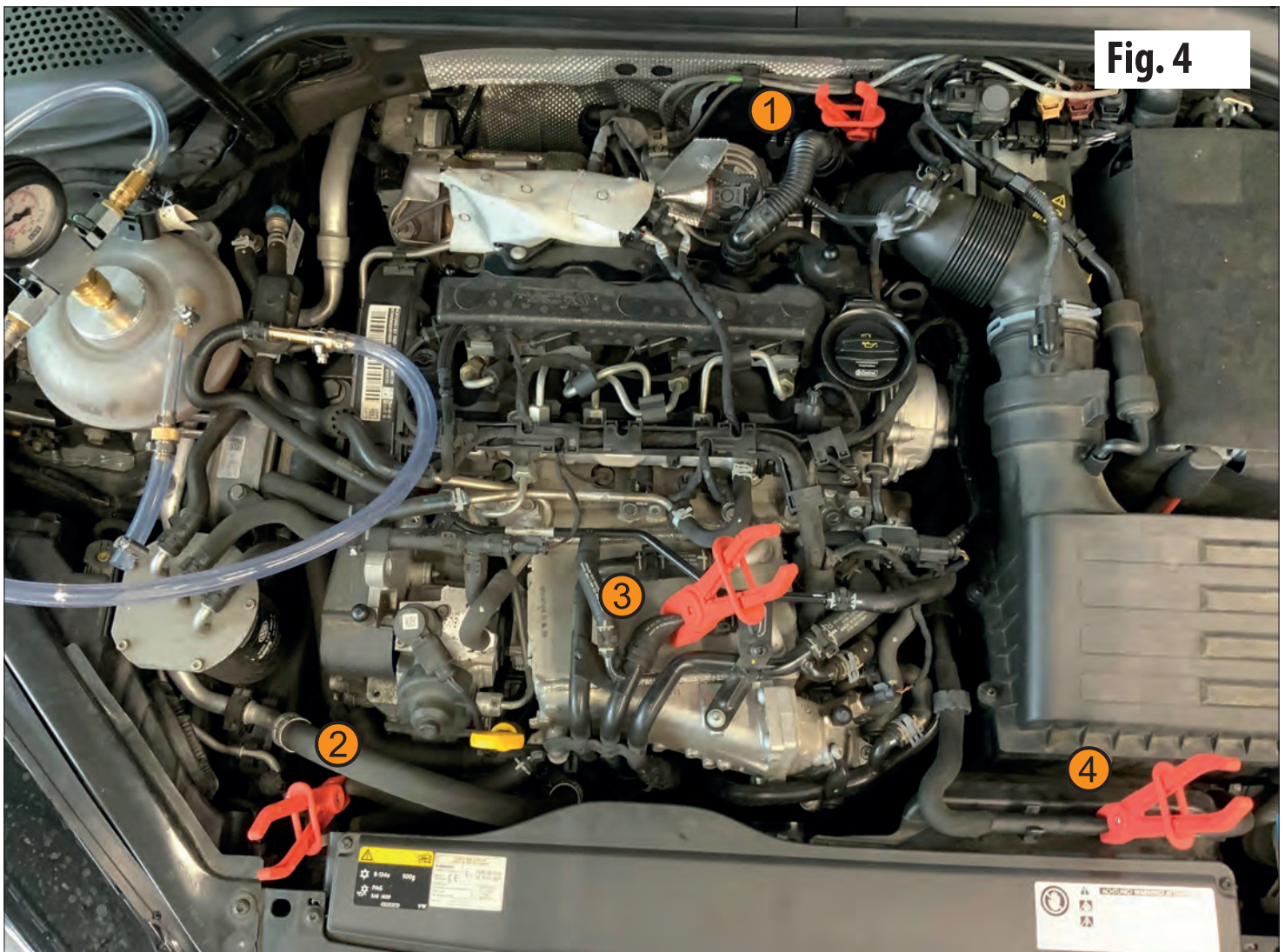


Fig. 3

Fig. 4



**Flushing cylinder block and cylinder head
(with distilled water):**

- To do so, use hose clamps (23) to clamp off the bleed hoses at the points shown in **Figure 4**.
- Open shut-off valve (A) on the valve block (9) and pump approx. 2 to 3 litres of distilled water through the engine.
- Monitor the degree of flushing at the sight glass (17).
- As soon as the coolant begins to decolourise, close shut-off valve (A).

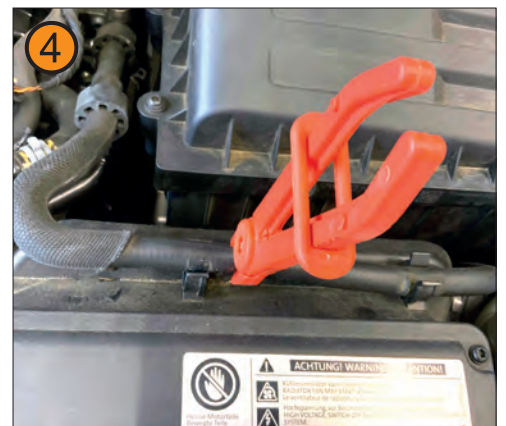
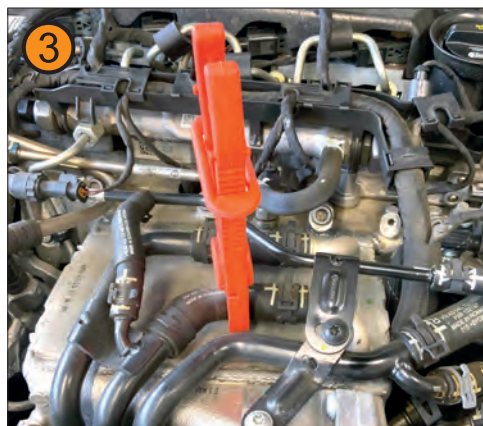
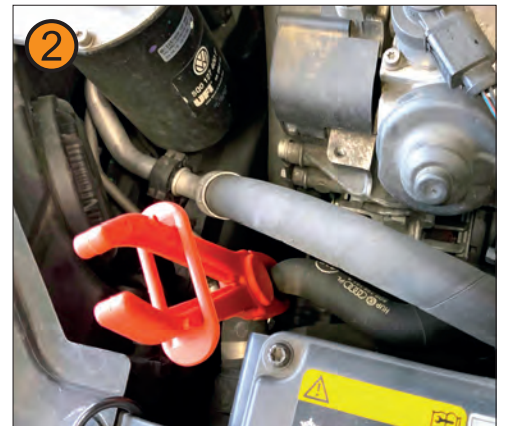
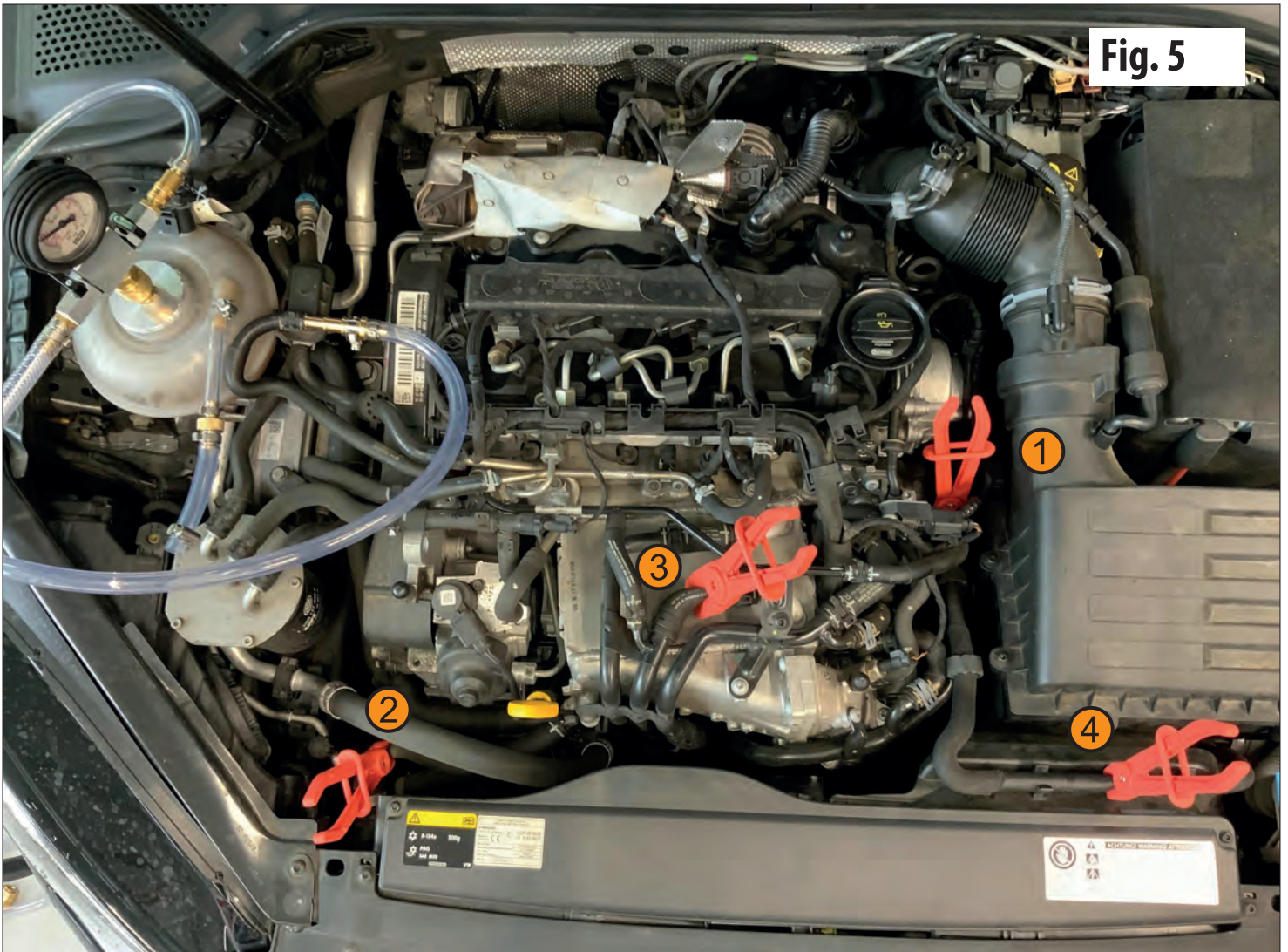


Fig. 5



**Flushing heat exchanger for heating system
(with distilled water):**

- To do so, use hose clamps (23) to clamp off the bleed hoses at the points shown in **Figure 5**.
- Open shut-off valve (A) on the valve block (9) and pump approx. 2 litres of distilled water through the engine.
- Monitor the degree of flushing at the sight glass (17).
- As soon as the coolant begins to decolourise, close shut-off valve (A).

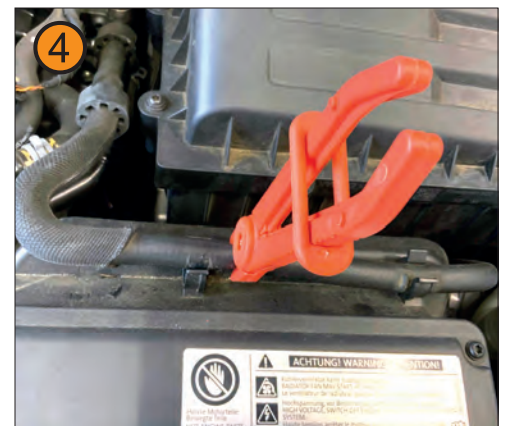
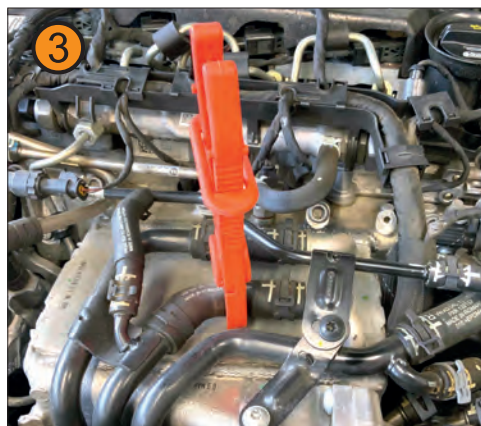
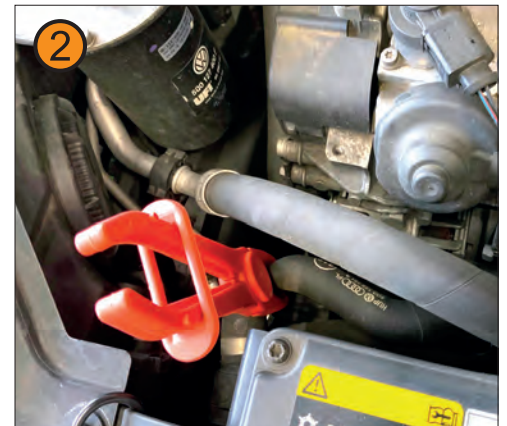
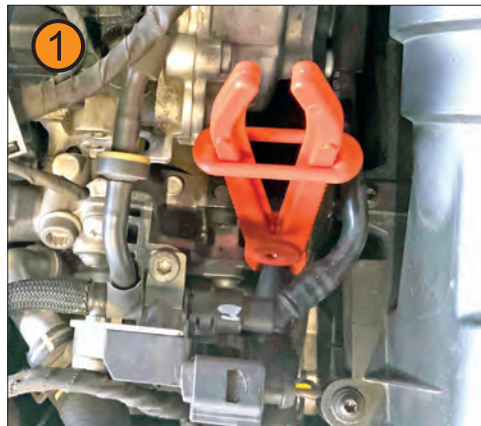
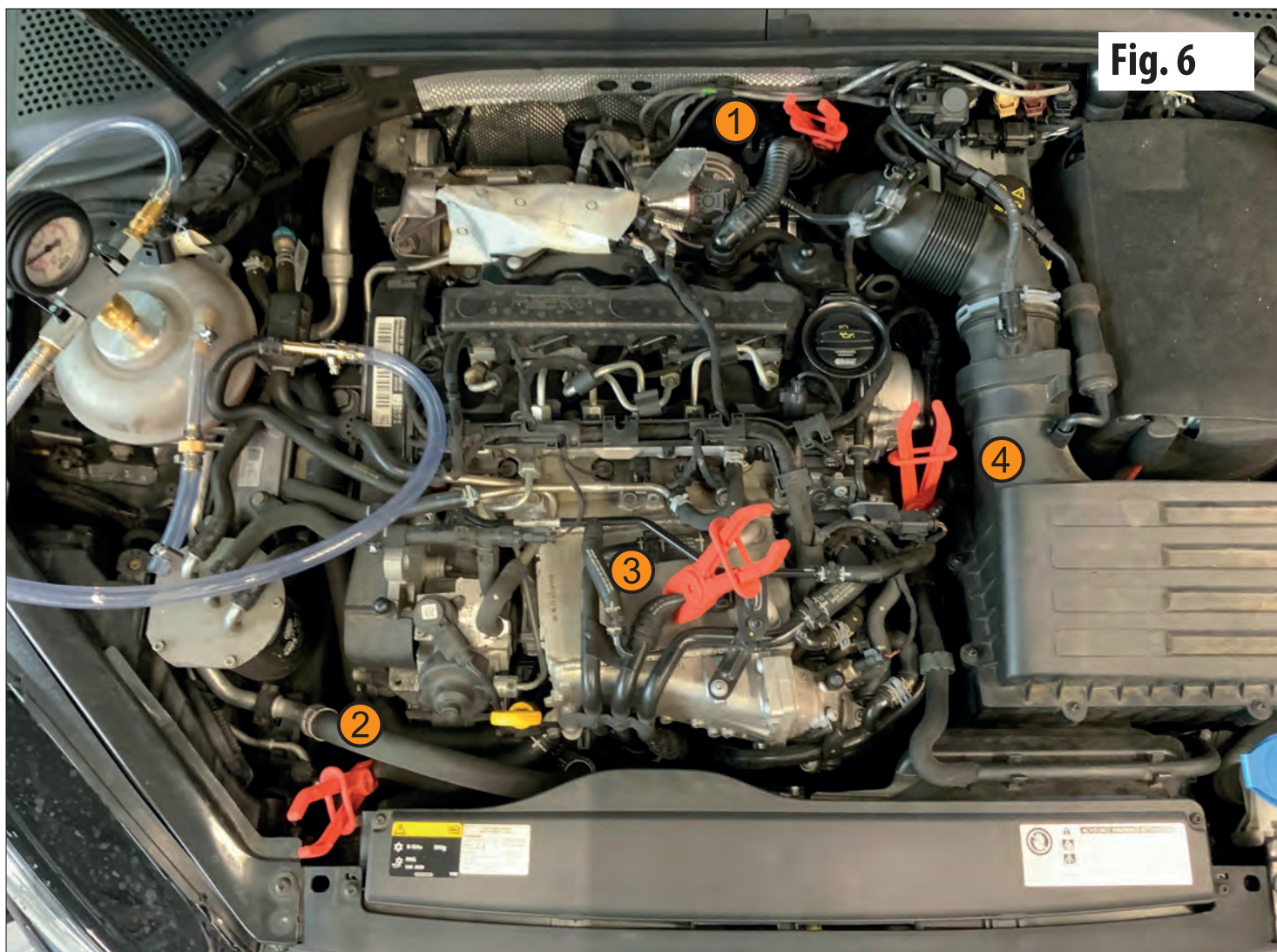


Fig. 6



**Flushing radiator
(with distilled water):**

- To do so, use hose clamps (23) to clamp off the bleed hoses at the points shown in **Figure 6**.
- Open shut-off valve (A) on the valve block (9) and pump approx. 2 litres of distilled water through the engine.
- Monitor the degree of flushing at the sight glass (17).
- As soon as the coolant begins to decolourise, close shut-off valve (A).

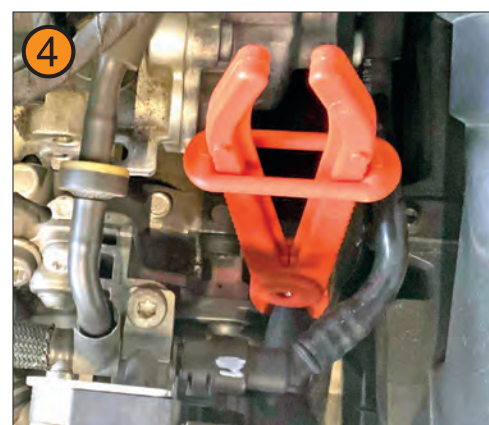
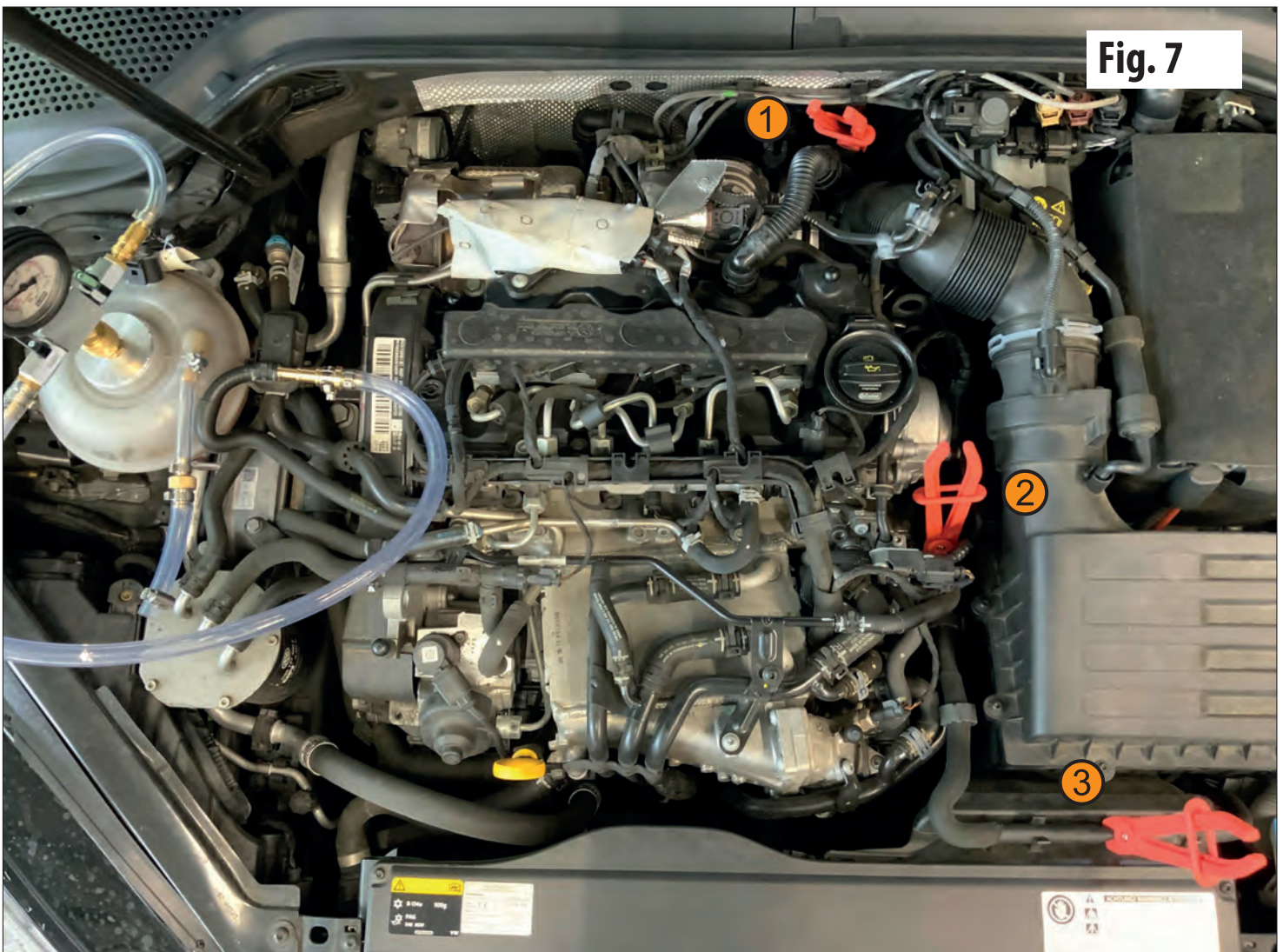
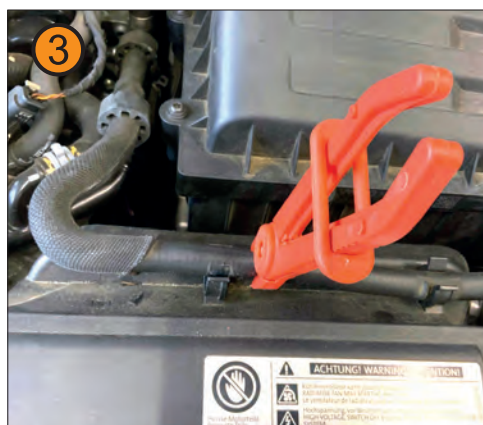
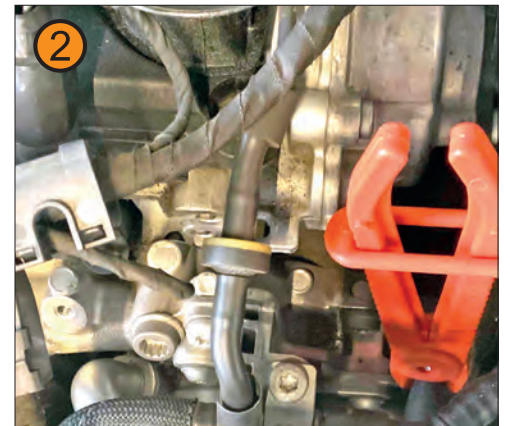


Fig. 7



Flushing intercooler and radiator for intercooling circuit (with distilled water):

- To do so, use hose clamps (23) to clamp off the bleed hoses at the points shown in **Figure 7**.
- Open shut-off valve (A) on the valve block (9) and pump approx. 2 litres of distilled water through the engine.
- Monitor the degree of flushing at the sight glass (17).
- As soon as the coolant begins to decolourise, close shut-off valve (A).



Repeat the entire flushing process "4.5 Flushing cooling system (with distilled water)", but pump through only approx. 1 litre of distilled water each time.

4.6 Flushing cooling system (with coolant)

- Empty container no. 21.1 and fill with coolant of the type and quantity specified by the vehicle manufacturer (with the vehicle used in this example: 20 litres).
- Empty container no. 22.1.

Flushing cylinder block and cylinder head (with coolant):

- To do so, use hose clamps (23) to clamp off the bleed hoses at the points shown in **Figure 4 (page 10)**.
- Open shut-off valve (A) on the valve block (9) and pump approx. 2 to 3 litres of distilled water through the engine.
- Monitor the degree of flushing at the sight glass (17).
- As soon as coolant is visible in the sight glass (17), close shut-off valve (A) on the valve block (9).

Flushing heat exchanger for heating system (with coolant):

- To do so, use hose clamps (23) to clamp off the bleed hoses at the points shown in **Figure 5 (page 11)**.
- Open shut-off valve (A) on the valve block (9) and pump approx. 2 litres of distilled water through the engine.
- Monitor the degree of flushing at the sight glass (17).
- As soon as coolant is visible in the sight glass (17), close shut-off valve (A) on the valve block (9).

Flushing radiator (with coolant):

- To do so, use hose clamps (23) to clamp off the bleed hoses at the points shown in **Figure 6 (page 12)**.
- Open shut-off valve (A) on the valve block (9) and pump approx. 2 litres of distilled water through the engine.
- Monitor the degree of flushing at the sight glass (17).
- As soon as coolant is visible in the sight glass (17), close shut-off valve (A) on the valve block (9).

Flushing intercooler and radiator for intercooling circuit (with coolant):

- To do so, use hose clamps (23) to clamp off the bleed hoses at the points shown in **Figure 7 (page 13)**.
- Open shut-off valve (A) on the valve block (9) and pump approx. 2 litres of distilled water through the engine.
- Monitor the degree of flushing at the sight glass (17).
- As soon as coolant is visible in the sight glass (17), close shut-off valve (A) on the valve block (9).

Repeat the cooling system flushing process under 4.6, but pump through only approx. 1 litre of coolant each time.

- This completes the flushing process.
- Switch off the pump (18).
- Remove all hose clamps (23).

4.7 Checking coolant level and frost protection, disconnecting cooling system filling and flushing device

- To reduce the pressure in the cooling system, open shut-off valve (B).
- Remove the sealing hose (13 or 14) from the connecting piece of the coolant expansion tank.
- Disconnect the bleed hose of the coolant expansion tank from the flushing hose (12) and reattach the bleed hose together with the clamp to the connecting piece of the coolant expansion tank.
Use suitable pliers.
- Connect the flushing hose (12) to the cleaning adapter (15) and secure using a hose clamp if necessary.
(This is used for subsequent cleaning of the filling and flushing device; see point 4.9)
- Remove the valve block (9) and test adapter and then check and, if necessary, correct the coolant level.

 **Note:**
The quality of the coolant can be checked using the antifreeze tester from toolbox W03.

- If the coolant level is too high, proceed to point 4.8 Extracting coolant.
- Reassemble the vehicle in accordance with the manufacturer's specifications.

4.8 Extracting coolant

- Disconnect the suction hose (7) from the container (21.1) and connect the suction adapter (16) to the suction hose (7).
- Switch on the pump (18) and open shut-off valves (A) and (B) on the valve block (9).
- Using the suction adapter (16), extract the excess coolant from the expansion tank.
- Close shut-off valves (A) and (B) on the valve block (9) and switch off the pump (18).



ATTENTION:

A vehicle diagnostics tester is required in order to bleed the cooling system. Observe the requirements and procedures specified by the vehicle manufacturer for bleeding the cooling system.

4.9 Cleaning cooling system filling and flushing device KBSG 01_Continental

- Empty the containers (21.1) and (22.1) and flush out with distilled water.
- Fill container (21.1) with distilled water.
- Connect the cleaning adapter (15) to the valve block (9).
- Open shut-off valves (A) and (B) on the valve block (9).
- Switch on the pump (18) and pump the distilled water until only clear water is flushed through the sight glass (4).
- Switch off the pump (18) and disconnect and empty the hoses.
- Close shut-off valves (A) and (B) on the valve block (9).
- Remove the cleaning adapter (15) from the flushing hose (12).
- Seal the flushing hose (12) with the stepped adapter and secure using the hose clamp.



Note:

Always flush the KBSG 01_Continental cooling system filling and flushing device, otherwise the channels of the sight glass (17) could become discoloured.

5. Handling instructions

5.1 Care and storage

To enable effective working, we designed the product to be low maintenance. Nevertheless, you should still observe a few notes. This helps to ensure trouble-free operation and to preserve the value of the equipment.



Note:

Damage to the product or individual components caused by aggressive cleaning agents or solvents. Do not use aggressive or abrasive cleaning agents, solvents or similar chemicals for cleaning.

- Clean the cooling system filling and flushing device using distilled water.
- Store your product in a dry, dust-protected environment. Avoid places with higher temperatures and moisture or places which can become wet, also for maintenance.

5.2 Environmentally friendly disposal



Recycling according to WEEE (EU Directive 2002/96 EC)

You can optionally return the product to us for disposal.

The product or its components must not be disposed of as normal waste.

If you prefer not to return the product to us for disposal, you are required to bring the product to a specialised centre for the separate collection and disposal of hazardous and special waste.

6. Technical data, specifications

Feature	Value
Air consumption (venturi nozzle)	125 l/min
Operating pressure	7 – 10 bar



Note regarding EAP 11_12VDC_Continental pump:

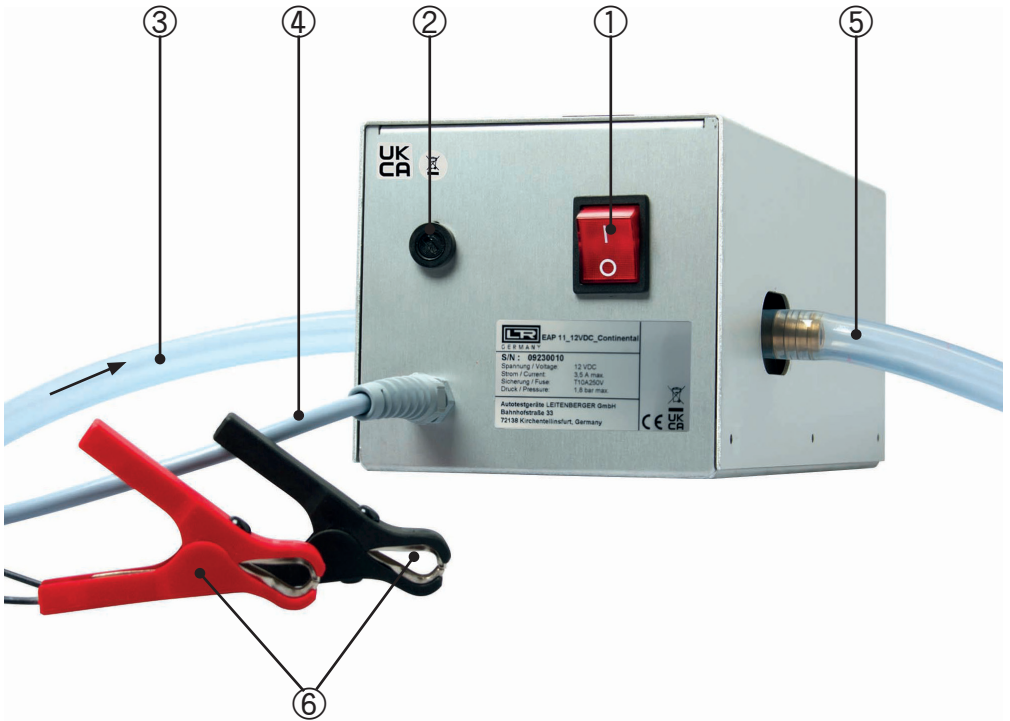
For all information, see the supplementary document "Operating instructions EAP 11_12VDC_Continental"

EAP 11_12VDC_Continental

CE

Pump for automotive cooling systems Electrical suction and extraction pump





①	ON/OFF switch
②	Fuse holder
③	Suction line with coupling
④	Voltage supply cable
⑤	Pressure line with plug
⑥	Battery terminals (red/black)

1. Content

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2. Introduction

The pump **EAP 11_12VDC_Continental** is specially used for vacuuming, refilling of refrigerants in automotive cooling systems or for flushing of cooling circuits in the vehicle.

3. Safety notes



To ensure safe and reliable work with the device, the following points are to be observed:

- The unit may only be operated only by trained specialists.
- Cannot be used for fuels such as gasoline, diesel and highly flammable media!
- Observe the general safety and accident prevention regulations!



- Make certain that no operating additive lands on trim or body parts of the vehicle. Immediately wash away liquid that escapes with clear water and a cloth.

- Never kink, pinch or block pressure and suction lines!
- Extracted liquid and any liquid that escapes is to be collected and disposed of properly.
- Wear suitable protective clothing.



Non-specified use of the product or failure to observe the safety and operating notes may lead to severe malfunctions as well as personal injury and property damage.

4. Use

- 4.1 The pump is to be positioned at approximately the same height as the „new liquid“ container of the cooling system filling & flushing unit.
- 4.2 Connect the suction pipe (3) to the suction pipe of the cooling system filling & rinsing unit.
- 4.3 Connect the pressure line (5) to the pressure line of the cooling system filling & flushing unit.
- 4.4 Supply the pump with voltage (12 VDC) according to the type plate.
Connect the pump by means of battery terminals (6) for an automobile battery, red (+) terminal, black (-) terminal, ensure correct polarity.
- 4.5 Press the ON/OFF switch (1) to start the pumping process. The pump is self-priming.
- 4.6 After finishing the pumping process, rinse or clean the device and hoses with distilled water.



Note:

No coolant residues may remain inside of the pump; this will damage the pump. The warranty is thereby rendered void!

5. Technical data

Power supply	12 VDC
Suction capacity	8 l/min
Fuse	M 10 A 250 V
Maximum current consumption	3,5 A
Operating conditions	10...50 °C, < 60 % RH
Storage conditions	-10...60 °C, < 85 % RH
Power supply cable incl. plug and battery terminals	approx. 4.00 m
Dimensions L / W / H	290 / 123 / 117 mm
Weight	4.0 kg

EU declaration of conformity

according to Machinery Directive 2006/42/EC (EU Official Journal L157/24-85 dated 09.06.2006),
according to EMC Directive 2014/30/EU (EU Official Journal L96/79-106 dated 29.03.2014),
according to RoHS II Directive 2011/65/EU (EU Official Journal L174/88-110 dated 01.07.2011)

Manufacturer:

AUTOTESTGERÄTE Leitenberger GmbH
Bahnhofstraße 33
72138 Kirchentellinsfurt
Germany

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The German version of this document is the original EU declaration of conformity.

All non-German versions of this document are translations of the original EU declaration of conformity.

Object of the declaration:

Product name: Electric suction pump for flushing automotive cooling systems
Model: EAP 11_12VDC_Continental
Serial number: 01230001-12289999
Year of construction: 2023-2028

The above-described subject of the declaration meets the relevant harmonisation legislation of the European Union and the provisions of Directive 2011/65/EU of the European Parliament and of the Council of 8th June 2011 on the restriction of use of certain hazardous substances in electrical and electronic equipment:

EN IEC 63000:2018
DIN EN 61326-1
DIN EN 55011
EN ISO 12100

72138 Kirchentellinsfurt, 20.10.2023

Signature



M. Heller

Development Director



UK Declaration of Conformity (DoC)

In conformity with Supply of Machinery (Safety) Regulations 2008 (UK SI 2008 No.1597),
in conformity with Electromagnetic Compatibility Regulations 2016 (UK SI 2016 No. 1091),
in conformity with The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic
Equipment Regulations 2012 (UK SI 2012 No. 3032)

Manufacturer:

AUTOTESTGERÄTE Leitenberger GmbH
Bahnhofstraße 33
72138 Kirchentellinsfurt
Germany

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Object of the declaration:

Product name: Electric suction pump for flushing automotive cooling systems
Model: EAP 11_12VDC_Continental
Serial number: 01230001 to 12289999
Year of construction: 2023 to 2028

**The object of the declaration described above is in conformity with the following UK
designated standards:**

BS EN IEC 63000:2018
BS EN 61326 -1
BS EN 55011
BS EN ISO 12100

72138 Kirchentellinsfurt, 20.10.2023

Signature



M. Heller

Development Director