

SL 300

Sniffer Line for PHOENIX Devices

Operating instructions P60105004_002_C2



Part number
252003

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We accept no liability for loss of profit, loss of market or any other indirect or consequential loss whatsoever.

Product warranty and limit of liability are dealt with in our standard terms and conditions of sale or negotiated contract under which this document is supplied.

You must use this product as described in this manual. Read the manual before you install, operate, or maintain the product.

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Safety and compliance

1 Safety and compliance

For safe operation from the start, read these instructions carefully before you install or commission the equipment and keep them safe for future use. Read all the safety instructions in this section and the rest of this manual carefully and make sure that you obey these instructions.

The instruction manual is an important safety document that we often deliver digitally. It is your responsibility to keep the instruction manual available and visible while working with the equipment. Please download the digital version of the instruction manual for use on your device or print it if a device will not be available.

1.1 Definition of Warnings and Cautions

Important safety information is highlighted as warning and caution instructions which are defined as follows. Different symbols are used according to the type of hazard.

WARNING:

If you do not obey a warning, there is a risk of injury or death.

CAUTION:

If you do not obey a caution, there is a risk of minor injury, damage to equipment, related equipment or process.

NOTICE:

Information about properties or instructions for an action which, if ignored, will cause damage to the equipment.

We reserve the right to change the design and the stated data. The illustrations are not binding.

1.2 Trained personnel

For the operation of this equipment “trained personnel” are:

- skilled workers with knowledge in the fields of mechanics, electrical engineering, pollution abatement and vacuum technology and
- personnel specially trained for the operation of vacuum pumps

Safety and compliance

1.3 Safety symbols

The safety symbols on the products show the areas where care and attention is necessary.

The safety symbols that we use on the product or in the product documentation have the following meanings:

	Warning/Caution An appropriate safety instruction must be followed or caution to a potential hazard exists.
	Warning - Environmental hazard Identifies possible hazards to the environment.
	Warning - Risk of explosion There is a risk of explosion when you do the task.
	Mandatory - Read the manual

2 Important safety information

The SL 300 sniffer has been designed for safe and efficient operation when used properly and in accordance with these operating instructions. Observe all safety precautions described in this section and throughout this operating instructions and the operating instructions of the connected leak detector. The sniffer line must only be operated in the proper condition and under the conditions described in the operating instructions. Address any further safety, operation and/or maintenance questions to our nearest office.

Risk clogging



CAUTION: CLOGGING

Risk of damage to equipment. Liquid can cause logging of the sniffer tool and line.

-
- Do not aspirate any liquids (for example, water and adhesive substances).
 - Before you begin to work, make sure whether any vacuum components are contaminated with harmful gas.
 - Adhere to the relevant regulations and take the necessary precautions when handling contaminated parts.
 - Communicate the safety instructions to other users.

Product identification

This product applies to the SL 300 sniffer line. The catalog number can be noted from the product name plate.

Description

3 Description

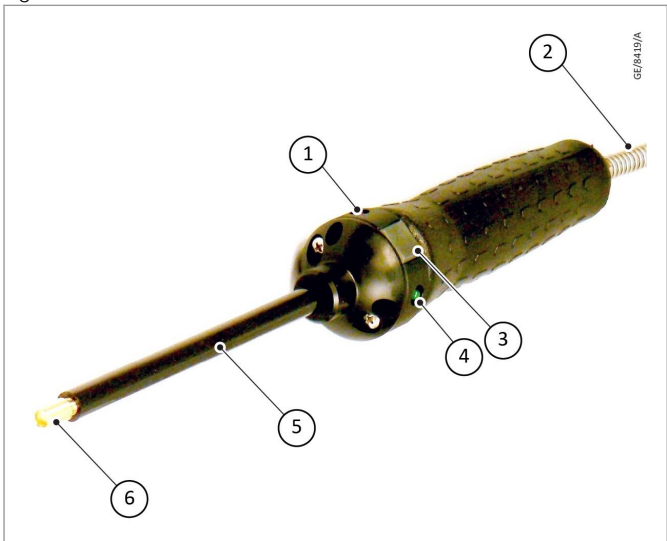
The sniffer line SL 300 is used for locating gas leaks on test objects in conjunction with leak detectors.

Intended use

The sniffer line SL 300 is used for locating gas leaks on test objects in conjunction with the leak detectors PHOENIX Quadro, PHOENIX Magno, PHOENIX Vario, PHOENIX L300i and PHOENIXL 300.

3.1 Design

Figure 1. Sniffer line SL 300



- | | |
|-------------------------------|----------------------------|
| 1. Indicator "leak" red | 2. Sniffer line |
| 3. Key | 4. Indicator "ready" green |
| 5. Sniffer tip, 120 mm length | 6. Capillary filter |

Operating/Display Element	Function of the leak detector
LED Red	Exceeded threshold of leak rate of trigger 1
LED Green	Fallen below threshold of leak rate of trigger 1
Key	ZERO On/Off

4 Technical data

4.1 Sniffer line length

Figure 2. Sniffer line SL 300



The sniffer line has an effective length of 4 m from the KF25 flange to the hand probe.

4.2 Gas throughput

Approximately 15 – 25 sccm

Installation

5 Installation

5.1 Connection

Figure 3. Sniffer line SL 300 with flange KF25 and 8-pin plug



1	Flange KF25	Vacuum connection
2	8 - Pin plug	Electrical connection

- Connect the sniffer line SL 300 with the flange KF25 to the inlet port of the leak detector.
- Then connect the 8-pin plug of the sniffer line SL 300 with the input "OPTION" of the leak detector.

Now the sniffer line is ready to work.

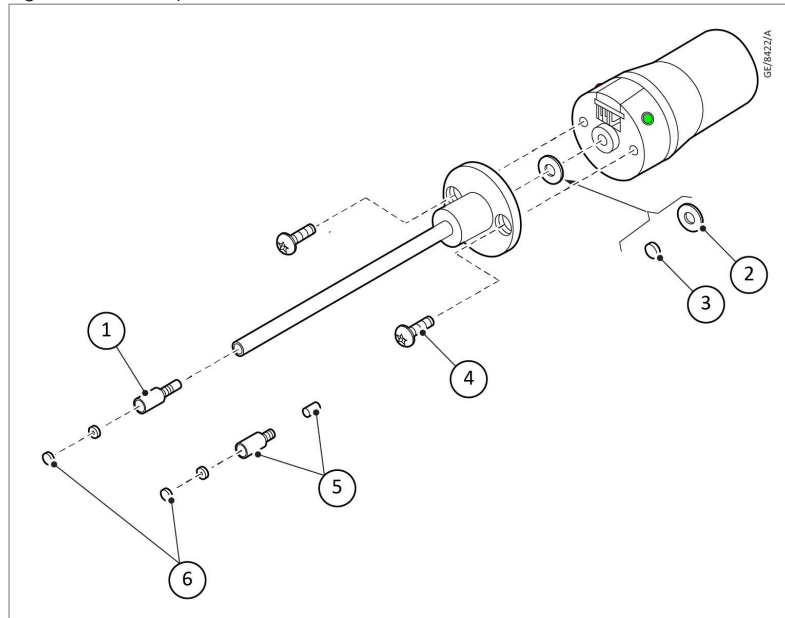
6 Maintenance

6.1 Sniffer probe clogged

Clogging of the sniffer probe may be due to:

- Clogging of capillary filter: refer to Chapter Replacing the felt discs or the capillary filter [Replacing the felt disc's or the capillary filter](#) on page 11.
- Clogging of sinter filter: refer to Chapter Checking / replacing the sinter filter [Checking/replacing the sinter filter](#) on page 11.
- Clogging of sniffer probe capillary - replace sniffer tip.
- Damage of sniffer tip - replace sniffer tip.
- Clogging/damage of sniffer line - replace SL 300.

Figure 4. Sniffer tip



- | | |
|--|--------------------|
| 1. Capillary filter (plastic version; standard) | 2. Seal |
| 3. Sinter filter | 4. Phillips screws |
| 5. Capillary filter (Metallic version with seal; optional) | 6. Felt disc's |

6.2 Replacing the felt disc's or the capillary filter

- Switch the leak detector Off or disconnect the sniffer line.
- Remove dirty felt disc's by means of tweezers and replace them.

or

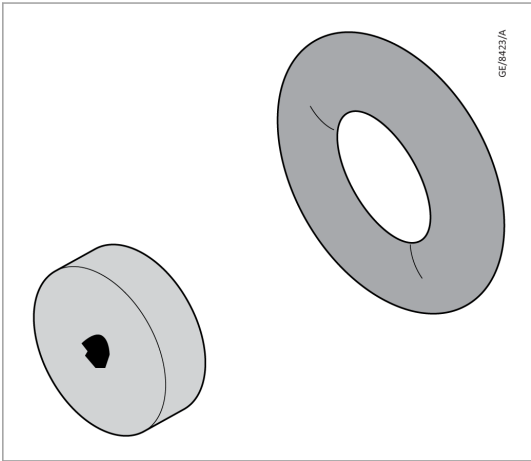
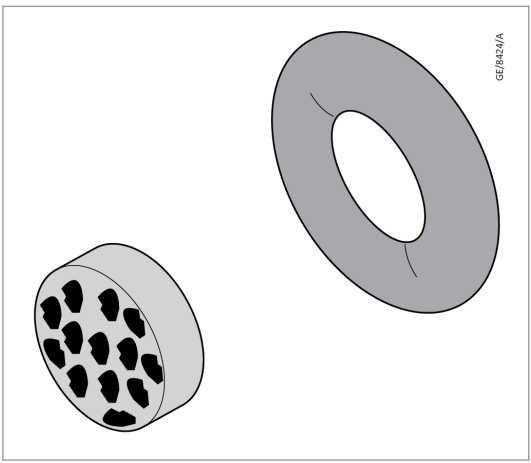
- Unscrew capillary filter and replace it (If using the metallic version, do not forget the seal).

6.3 Checking/replacing the sinter filter

Switch the leak detector off or disconnect the sniffer line.

- Remove the two Phillips screws.
- Remove the sinter filter with the seal.
- Visually check the filter for contamination:

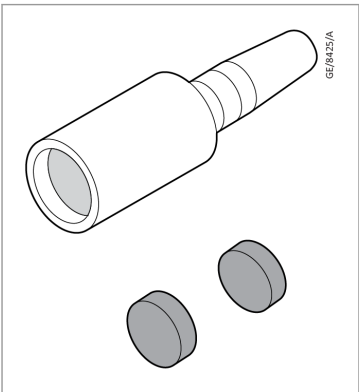
Maintenance

Visual check of sinter filter		Action
	Not/Only slightly contaminated	Continue to use the sinter filter together with the seal.
	Severely contaminated	Replace sinter filter and the seal

- Reinstall the sniffer tip.
- Now you can use the sniffer line again.

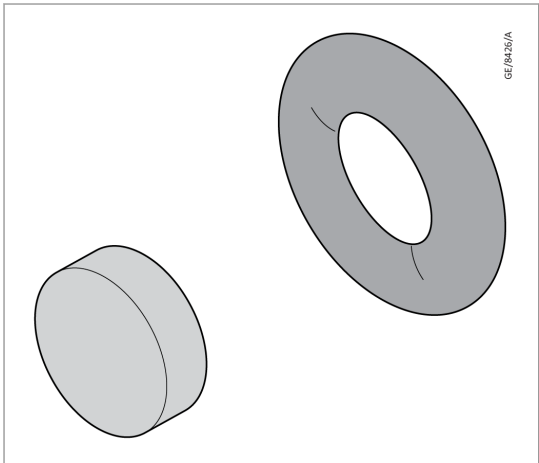
6.4 Spare parts

6.4.1 Capillary filter, plastic standard version



Spare parts/Supplied parts	Quantity	Order number
Capillary filter Plastic standard version	5	20003501
Felt disc's for capillary filter	50	200001116

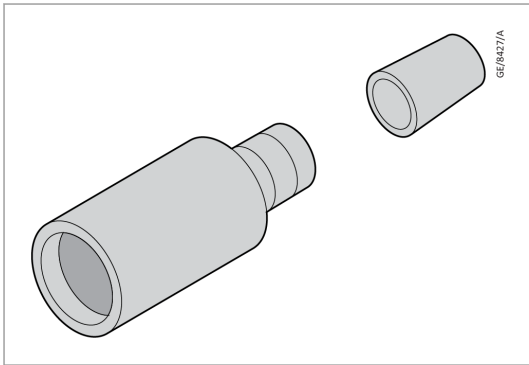
6.4.2 Sinter filter, with seal



Spare parts/Supplied parts	Quantity	Order number
Sinter filter, with seal	5	20003500

6.5 Options

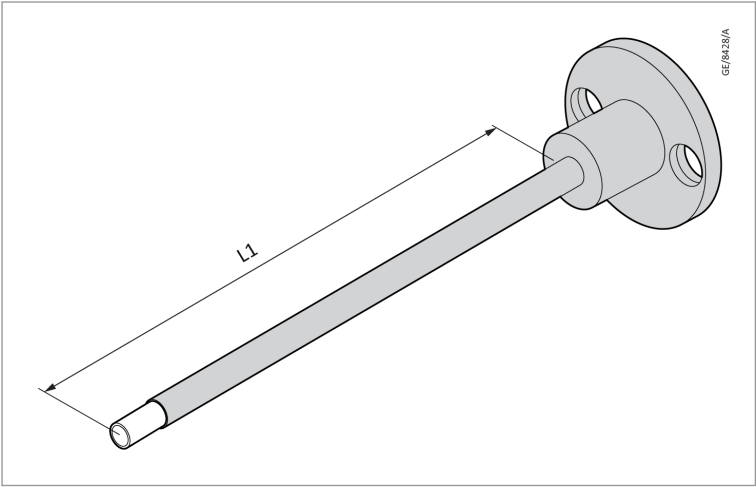
6.5.1 Capillary filter, metal version for rough duty



Description	Quantity	Order number
Capillary filter Metal version for rough duty, with seal	1	12217

Maintenance

6.5.2 Sniffer tip, rigid / flexible



L1	Quantity	Rigid	Flexible
		Part number	Part number
120 mm	1	12213	12214
385 mm	1	12215	12216

7 Disposal



CAUTION:

Contaminated parts can be detrimental to health and environment

Before beginning any work, first find out whether any parts are contaminated. Adhere to the relevant regulations and take the necessary precautions when handling contaminated parts.

The equipment may have been contaminated by the process or by environmental influences. In this case the equipment must be decontaminated in accordance with the relevant regulations. We offer this service at fixed prices.

Further details are available on request.

Separate clean components according to their materials, and dispose of these accordingly. We offer this service. Further details are available on request.

8 Service

8.1 Return the equipment or components for service

Before you send your equipment to us for service or for any other reason, you must send us a completed Declaration of Contamination of Vacuum Equipment and Components – Form HS2. The HS2 form tells us if any substances found in the equipment are hazardous, which is important for the safety of our employees and all other people involved in the service of your equipment. The hazard information also lets us select the correct procedures to service your equipment.

We provide instructions for completing the form in the Declaration of Contamination of Vacuum equipment and Components – Procedure HS1.

Download the latest documents from leybold.com/en/downloads/download-documents/declaration-of-contamination/, follow the procedure in HS1, fill in the electronic HS2 form, print it, sign it, and return the signed copy to us.



NOTICE:

If we do not receive a completed HS2 form, your equipment cannot be serviced.

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