SL Sniffer line

Personnel qualifications

All work described in this document may only be carried out by persons who have suitable technical training and the necessary experience or who have been instructed.

General safety instructions

The Edwards ELD500 SL 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. It must be operated and maintained by trained personnel only. Consult local, state, and national agencies regarding specific requirements and regulations. Address any further safety, operation and/or maintenance questions to our nearest office.

Risk clogging

Liquid can cause clogging of the sniffer tip and line.

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

Intended use

The ELD500 SL is used for locating gas leaks on test objects in conjunction with the ELD500 leak detector.

Product identification

This product applies to sniffer lines with item number D13550300. The item number can be taken from the product name plate.

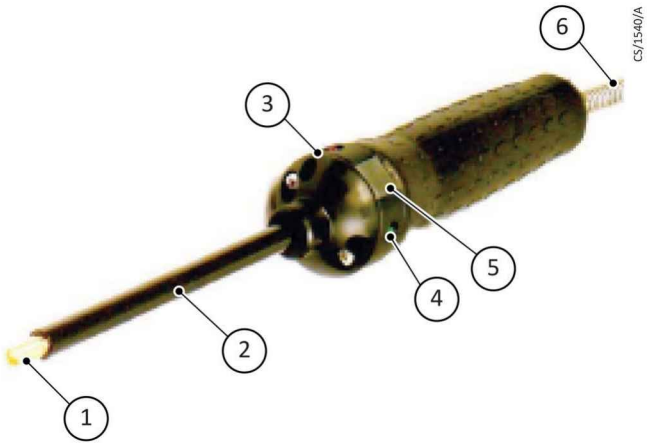
We reserve the right to make technical changes without prior notice.

Description

The ELD500 SL is used for locating gas leaks on test objects in conjunction with leak detectors.

Design

Figure 35 ELD500 SL hand probe



1 Capillary filter
2 Sniffer tip, 120 mm length
3 Indicator “leak” red
4 Indicator “ready” green
5 Key
6 Sniffer line

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

The function of the key and the meaning of the display is explained in the Technical Handbook of the leak detector.

Technical data

Sniffer line length

Figure 36 ELD500 SL general view

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

Gas throughput

ca. 15…25 sccm

Connection

Vacuum connection	KF25 flange
Electrical connection	8-pin plug

Installation

Connection

Figure 37 ELD500 SL connections with KF25 flange and 8-pin plug

1. KF25 flange
2. 8-pin plug

1. Connect the ELD500 SL with KF25 flange to the inlet port of the leak detector.
2. Connect the 8-pin plug of the ELD500 SL with the input “OPTION” of the leak detector.

The sniffer line is ready to work.

Maintenance

Service

WARNING:

Contaminated parts can be detrimental to health and environment.

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

CAUTION:

Dirt and damage can impair the function of the vacuum component.

When handling vacuum components, take appropriate measures to ensure cleanliness and prevent damage.

CAUTION:

Touching the product with bare hands increases the desorption rate.

Always wear clean, lint-free gloves and use clean tools when working in this area.

Whenever equipment is sent back, indicate whether the equipment is contaminated or is free of substances which could pose a health hazard. If it is contaminated, specify exactly which substances are involved. You must use the form we have prepared for this purpose.

A copy of this form has been reproduced at the end of these operating instructions: Return of Edwards Equipment: Declaration (HS2).

Attach the form to the equipment or enclose it with the equipment.

This statement detailing the type of contamination is required to satisfy legal requirements and for the protection of our employees. We must return to the sender any equipment which is not accompanied by a contamination statement.

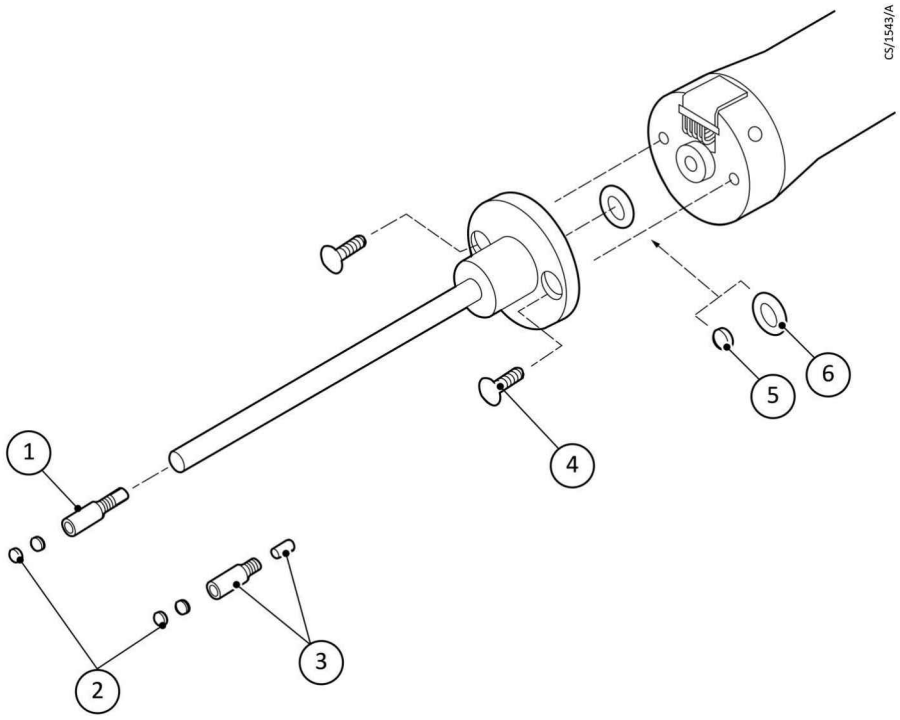
Maintenance work

Sniffer probe clogged

Clogging of the sniffer probe may be due to:

- Clogging of capillary filter: refer to Replacing the felt discs or the capillary filter.
- Clogging of sinter filter: refer to Checking/replacing the sinter filter.
- Clogging of sniffer probe capillary → replace sniffer tip.
- Damage of sniffer tip → replace sniffer tip.
- Clogging/damage of sniffer line → replace ELD500 SL.

Figure 38 Sniffer tip



1. Capillary filter (plastic version; standard)
2. Felt discs
3. Capillary filter
   (Metallic version with seal; option)
4. Phillips screws
5. Sinter filter
6. Seal

Replacing the felt discs or the capillary filter

- Switch the leak detector off or disconnect the sniffer line.
- Remove dirty felt discs by means of tweezers and replace them.

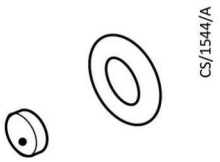
or

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

Checking/replacing the sinter filter

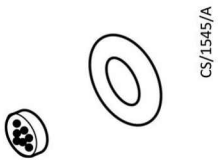
- Switch the leak detector off or disconnect the sniffer line.
- Remove the two Phillips screws.
- Remove the sinter filter with the seal.
- Visually check the filter for contamination:

Figure 39 Not/only slightly contaminated



Continue to use the sinter filter together with the seal.

Figure 40 Severely contaminated



Replace sinter filter and the seal.

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

Spare parts for sniffer lines

Product description	Item number
Spare filter 50 pieces	D13550208
Capillary filter 5 pieces	D13550209
Inlet capillary for 5 m and 20 m lines	D13550210
Sinter filter 5 pieces	D13550301
L1 120 mm, stiff	D13550302
L1 120 mm, flexible	D13550303
L1 385 mm, stiff	D13550304
L1 385 mm, flexible	D13550305

Waste Disposal

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.

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.

Separate clean components by material make-up, and dispose of accordingly.

When sending any equipment back to Edwards, observe the regulations provided in Service.