

**Injection
needle with
manometer**



Please read operating instructions carefully before use and keep for future reference.

Injection needle with manometer

Application

- **Overlap welding with test channel**
- **The compressed air tester with test needle is used to test the sealing strength of an overlap weld seam in the test channel.**
- **Testing an overlap weld seam with test channel on construction sites in civil engineering, tunnel and landfill applications.**



Warning

The compressed air tester with test needle may only be used with the mounted guard for the test needle included in the scope of supply.



Caution



The device must not be left unattended when in use.

The device may only be used by trained personnel or under their supervision. Children may not use the device under any circumstances.



Do not touch the top of the test needle. This can cause injuries.



Protect the compressed air tester with test needle against dirt and wet.

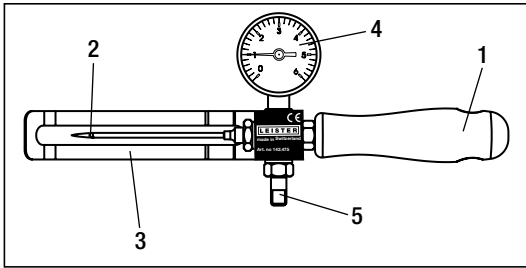
Technical data

Connection up to max. 6 bar / 80 psi

Conformity mark

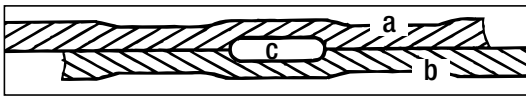
The right to make technical changes is reserved

Device Description



- 1 Handle
- 2 Test needle
- 3 Guard for test needle
- 4 Manometer
- 5 Compressed air connection

Cross-section of an overlap weld

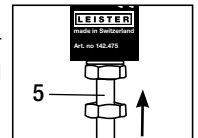


- a Upper membrane liner
- b Lower membrane liner
- c Test channel

Preparation

- Connect **compressed air connection (5)** to compressed air.

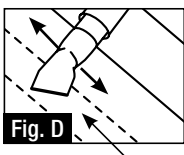
ATTENTION: Connection up to maximum 6 bar (80 psi). If the pressure of maximum 6 bar (80 psi) is exceeded, a pressure-reducing valve (not in scope of supply) must be mounted on the **compressed air connection (5)**.



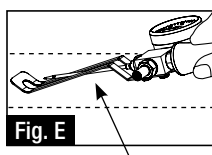
Testing

The test conditions, such as test pressure and test duration, must be adapted to the welding material, welding material thickness, test channel dimensions and temperature.

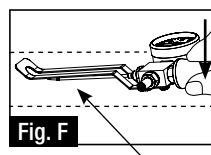
- Place the compressed air tester with test needle at the end of the test channel as follows:
 - Heat the point to be tested on the test channel of the weld seam using a Leister hot air blower with pendulum-like movements (**Figure D**).
 - Hold the compressed air tester at the **handle (1)** and place the **guard for the test needle (3)** onto the heated point (**Figure E**).
 - Guide the **test needle (2)** approx. 2 cm into the test channel (**Figure F**) by applying slight pressure at the **handle (1)**.



Test channel



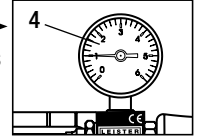
Test channel



Test channel

Testing

- The other end of the test channel must be airtight, e.g. close off by hot gas welding or with clamping devices.
- Compressed air flow in.
 - The **manometer (4)** must display the calculated compressed air value (bar / psi). →
 - The overlap weld seam is regarded as tight if the pressure drop during the test time is not more than 10 % of the calculated initial value.
- After the test time has passed, the air channel sealed airtight at the opposite end is opened. The air must escape abruptly.
- Remove compressed air tester with test needle.



Maintenance

- Clean **test needle (2)** and **compressed air connection (5)** if contaminated.

Replacing the sealing rings and test needle

- **Old or brittle sealing rings must be replaced.** Sealing rings included in scope of supply.
- Loosen the four **screws (6)** to remove the guard for the **test needle (3)** and sealing rings. Fitting new sealing ring.



Do not touch the top of the **test needle (2)**. This can cause injuries.

- Loosen **hexagon screw (8)** using hexagon spanner 14 mm. Remove **test needle (2)** and seal. Fit new sealing rings and if necessary new **test needle (2)**.

ATTENTION: The entire thread length of the **test needle (2)** must be screwed in onto the original seal as far as the limit stop. The hexagon must run parallel to the **guard for the test needle (3)** (**Figure 1**). The **test needle (2)** is thereby secured against coming loose itself.



The compressed air tester with test needle may only be used with the mounted guard for the test needle included in the scope of supply.

- Sealing ring on **compressed air connection (5)**
 - Remove compressed air at the **compressed air connection (5)**.
 - Loosen **screw (7)** using hexagon spanner.
 - Remove sealing ring and **compressed air connection (5)**.
 - Fit new sealing ring.
 - Mount **compressed air connection (5)** by tightening the **screw (7)**.

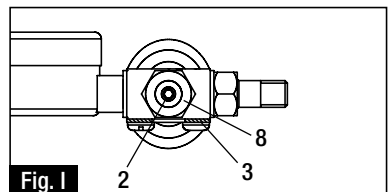
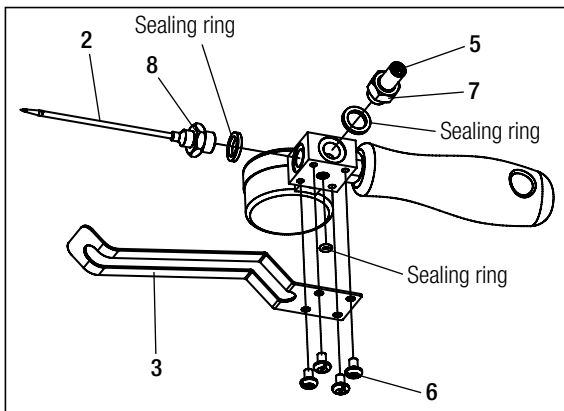


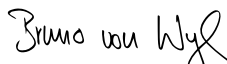
Fig. 1

Conformity

Leister Technologies AG, Galileo-Strasse 10, CH-6056 Kaegiswil/Switzerland confirms that this product in the version put into circulation by us, fulfils the requirements of the following EU directives.

Directives: 2006/42
Harmonised standards EN ISO 12100

Kaegiswil, 28.11.2017



Bruno von Wyl, CTO



Christoph Baumgartner, GM

Service and Repairs

- Repairs should only be carried out by authorised **Leister service points**. These guarantee a professional, reliable **repair service within 24 hours**, using original replacement parts according to the circuit diagrams and replacement part lists.

Warranty

- For this tool, the guarantee or warranty rights granted by the relevant distributor/seller shall apply. In case of guarantee or warranty claims any manufacturing or workmanship defects will either be repaired or replaced by the distributor at its discretion. Warranty or guarantee rights have to be verified by an invoice or a delivery document.
- Additional guarantee or warranty claims shall be excluded, subject to mandatory provisions of law.
- Warranty or guarantee shall not apply to defects caused by normal wear and tear, overload or improper handling.
- Warranty or guarantee claims will be rejected for tools that have been altered or changed by the purchaser.



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