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disclosure cat.:	II	proofread:	Cal	published date:	tbd	effect. date:	02/12
author:	AW	released by:	KUW	replaces:	initial	status:	published
resp. depart.:	PP	date of release:	01/31/12	revision No.:	0		
doc. type:	LGS	change rep. No.:		retention period:	10y.		

1 General information for separating the main valve from the pilot valve

2 Purpose

The documentation describes the separation of the main valve and the pilot valve. The description contains every single working step, supplies, tools and appliances.

3 Competences

The generation, maintenance and distribution of the documentation takes place in the organisation department. The defaults will be generated by the technical department in consultation with the final assembly department and product planning department.

4 Scope

This document must be applied to the dismantling of a Pilot Operated Safety Valve in agencies and subsidiaries of LESER GmbH & Co. KG, customers and independent service center.

5 Disclaimer

LESER puts in a great deal of effort into making up-to-date and correct documentation available. Nevertheless, LESER GmbH & Co. KG gives no guarantee that the recommended actions presented here are entirely correct and error free. This document is to be applied exclusively to the specified type. LESER GmbH & Co. KG declines any liability or responsibility for the correctness and completeness of the content.

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6 Qualified fitting personnel

LESER safety valves may only be dismantled by trained or qualified fitters. The qualifications must be obtained through the appropriate training measures.

7 Remarks



Gloves must be worn during the entire dismantling process.

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8 Basic safety guidelines

Dangerous media

Poisoning, caustic burns, burns, injuries

- Use suitable protective devices
- Use suitable collecting tanks.
- Wear suitable protective equipment.

Foreign bodies in the safety valve

Danger from failure of safety valve or leaks

- Flush the system before installation of a safety valve.
- Check the safety valve for foreign objects.
- Remove foreign objects

Bug screen is damaged or missing (B or option)

Dirt, objects or insects get into the safety valve. Danger from malfunction of the safety valve.

- Install the bug screen correctly.
- Check the bug screen regularly.

Ambient temperature is too high

Material expansion. Danger from malfunction of the safety valve.

Ambient temperature is too low

Icing, freezing vapours, reduced flow rate due to congealing media. Danger from functional disruption of the safety valve.

Abrasive or corrosive media

Moving parts jam or become stuck. Danger from functional disruption of the safety valve.

- Service the safety valve after each time it opens.

Media with high proportion of particles (only B)

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Deposits and clogging. Danger from malfunction of the safety valve.

- Use a filter with the correct mesh size.
- Use additional filters to increase the filter capacity.

Residual media in the safety valve

Poisoning, caustic burns, burns, injuries

- Wear suitable protective equipment.
- Remove residual media

WARNING

Leaky safety valve

Danger from leaking media due to damaged gaskets and sealing surfaces.

- Protect the safety valve against vibrations and blows especially during transport and installation.
- Check safety valve regularly for leaks.

Open bonnet or spindle guides

Danger from leaking media

- Make sure that no danger can arise from leaking media.
- Keep a safe distance.
- Wear suitable protective equipment.

CAUTION

Hot medium

Burns or scalding.

- Wear suitable protective equipment.

Hot surfaces

Burns.

- Wear suitable protective equipment.

Aggressive medium

Caustic burns.

- Wear suitable protective equipment.

Open bonnet or spindle guides

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Pinching danger from moving parts.

- Install suitable safeguards.

Sharp edges and burrs

Danger of injury.

- Wear safety gloves.
- Handle the safety valve carefully

High noise emission

Hearing damage.

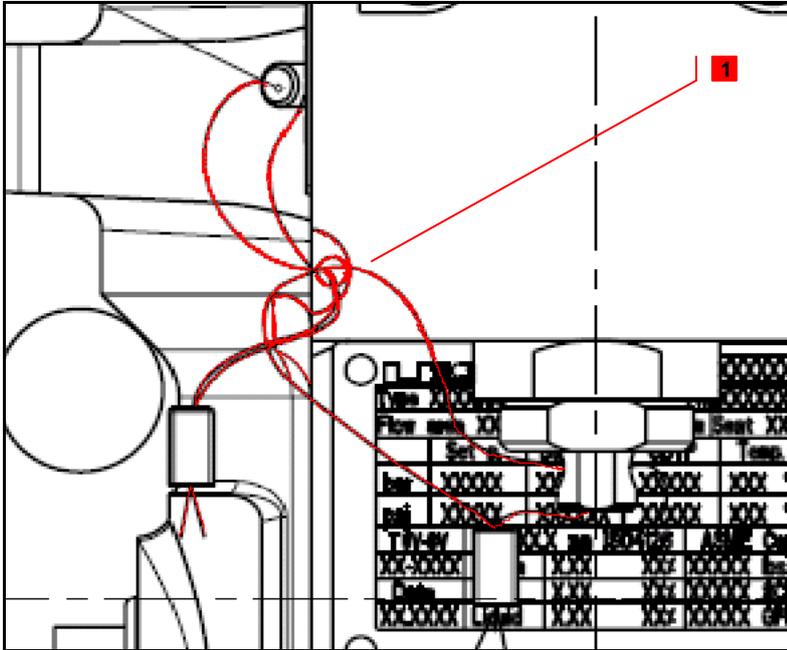
Wear ear protection.

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9 Disassembly instructions

9.1 Removing the seal



1. Steps – Descriptions

- 1** Remove seal with combination pliers

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2. Supplies

None

3. Tools

Combination pliers

4. Appliance

None

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9.2 Disassembly of the tube



1. Steps – Descriptions

Pay special attention, when opening a closed system regarding any remaining critical media in tubes

- 1** Loosen compression fittings
- 2** While loosening compression fittings counter fittings

Remove tube

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2. Supplies

None

3. Tools

Open-end wrench acc. to LID

4. Appliance

Test bench

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9.3 Removing the pilot valve from the main valve



1. Steps – Descriptions

5 Screw off four allen screws

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2. Supplies

None

3. Tools

Allen key acc. to LID

4. Appliance

Test bench

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