

Content

<b>1</b>	<b>General information for assembling the POSV accessories .....</b>	<b>2</b>
<b>2</b>	<b>Purpose .....</b>	<b>2</b>
<b>3</b>	<b>Competences .....</b>	<b>2</b>
<b>4</b>	<b>Scope .....</b>	<b>2</b>
<b>5</b>	<b>Disclaimer.....</b>	<b>2</b>
<b>6</b>	<b>Qualified fitting personnel.....</b>	<b>2</b>
<b>7</b>	<b>Remarks.....</b>	<b>2</b>
<b>8</b>	<b>Basic safety guidelines .....</b>	<b>3</b>
<b>9</b>	<b>Cleaning the main valve .....</b>	<b>6</b>
<b>10</b>	<b>Cleaning the pilot valve .....</b>	<b>7</b>

protected

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 assembling the POSV accessories

### 2 Purpose

The documentation describes the assembly of POSV accessories. 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 production planning department.

### 4 Scope

This document must be applied to the assembling of a Pilot Operated Safety Valve with accessories 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.

LESER GmbH & Co. KG reserves the right to change the information contained in this document, which is for the products of LESER GmbH & Co. KG and is intended for LESER subsidiaries, at any time and without prior announcement.

LESER GmbH & Co. KG is available to the users of this document to provide additional information.

### 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.

protected

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.		

## 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

protected

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.		

**(only B)**

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.

protected

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.		

**Open bonnet or spindle guides**

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.

protected

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.		

## 9 Cleaning the main valve

In case of deep suited soiling on the main valve, use the following four cleaning methods

- Blast cleaning
- Brushing
- Washing
- Cleaning with usual detergents

Disassembly of the main valve acc LID

### 9.1 Blast cleaning

In case of rust, paint or other deep suited soiling use the blast cleaning.

Stainless steel valves - glass bead blast cleaning

Cast steel - sand or bead blast cleaning

The body and top plate must be blasted from the **inside and outside** for as long as it takes to remove all residual paint, rust or other soiling.



- **Caution: Protect the seat sealing surface and working Surfaces, otherwise they will be damaged.**



Figure 1: Flange covering plastic



Figure 2: Flange covering sticker

protected

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.		

## 9.2 Brushing

The body's inside and top plate have to be cleaned with a wire-cup brush and drill / pneumatic grinder until they are clean - until all soiling is removed.



- **Caution: Protect the seat sealing surface and working surfaces, otherwise they will be damaged.**

## 9.3 Washing

When washing, make sure that **all parts** that belong to **one repaired safety valve** are washed together. When filling the washing machine, make sure that the washing medium can flow out of the bodies, bonnets and caps / levers without any residue.

## 9.4 Cleaning with detergents

In case of slight soiling like oil, grease and so on, use a suitable detergent in combination with a cotton cloth or paper towel to clean out all components of the Main Valve.



- **Consider a compatibility of the detergents and the soft sealings**

## 10 Cleaning the pilot valve

Clean the disassembled parts of the pilot valve with a suitable cleaner and a cotton cloth or paper towel.

Disassembly the pilot valve acc. LID



- **Consider a compatibility of the detergents and the soft sealings**

protected

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.		