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## Compact Performance

Types 459, 462, 450, 460

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### 1 Purpose

This LESER Global Standard (LGS) is disassembly documentation for various installation types of LESER safety valves of the Compact Performance series. The required work steps and tools are described.

### 2 Scope

This document must be applied to the dismantling Compact Performance safety valves in agencies and subsidiaries of LESER GmbH & Co. KG.

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### 3 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 completely correct and error free. This document is to be used exclusively with the specified type. LESER GmbH & Co. KG declines any liability or responsibility for the correctness and completeness of the content.

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### 4 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.

### 5 General Information

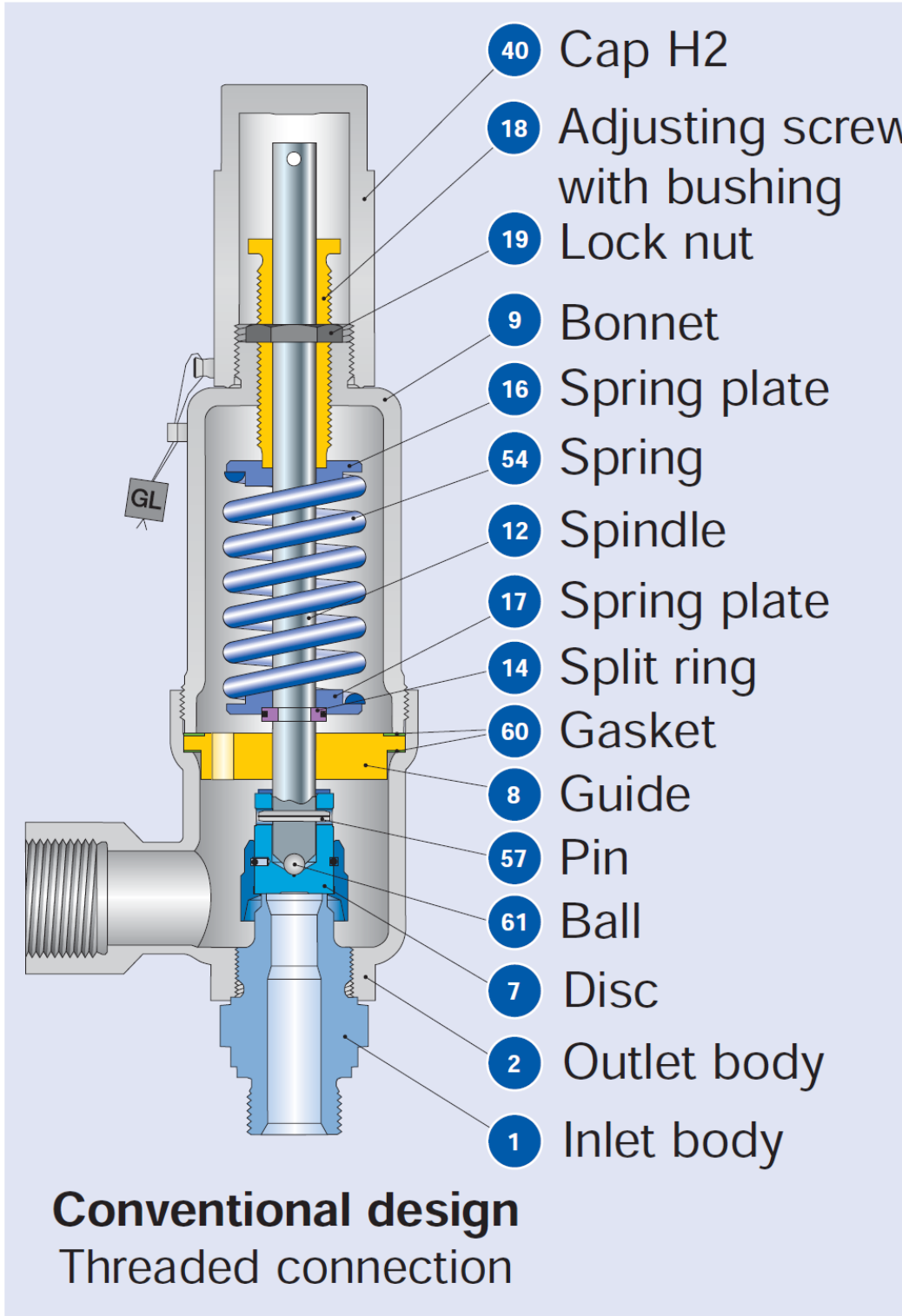


- Gloves must be worn during the entire dismantling operation.

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**6 General illustration**



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**Figure 6.1-1**

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## 7 Dismantling the Compact Performance series

### 7.1 Dismantling lift indicator in H4 lever

Illustrations	Description	Aids / Tools
 <p>Figure 7.1-1</p>	Remove lock nut	
 <p>Figure 7.1-2</p>	2. Remove nut and screw out the lift indicator completely.	


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## 7.2 Dismantling the cap / lever

### 7.2.1 Dismantling the cap H2




Illustrations	Description	Aids / Tools
 <p>Figure 7.2.1-1</p>	Loosen cap and screw it off.	Open-end spanner

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### 7.2.2 Dismantling the lever H3

Illustrations	Description	Aids / Tools
 <p><b>Figure 7.2.2-1</b></p>	Remove retaining washers on both sides. Pull out bolt.	
 <p><b>Figure 7.2.2-2</b></p>	Pull out the lever.	
 <p><b>Figure 7.2.2-3</b></p>	Loosen and remove lock screw. Remove plastic ball.	

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Illustrations	Description	Aids / Tools
 <p><b>Figure 7.2.2-4</b></p>	Individual parts of lever H3	
 <p><b>Figure 7.2.2-5</b></p>	Remove the retaining clip and cylinder pin from the spindle cap. Pull the spindle cap off the spindle.	
 <p><b>Figure 7.2.2-6</b></p>	Spindle cap, retaining clip and cylinder pin	




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### 7.2.3 Dismantling the lever H4

Illustrations	Description	Aids / Tools
 <p><b>Figure 7.2.3-1</b></p>	Screw lever off. Remove spacers.	
 <p><b>Figure 7.2.3-2</b></p>	Remove the retaining clip and cylinder pin from the spindle cap. Pull the spindle cap off the spindle.	
 <p><b>Figure 7.2.3-3</b></p>	Spindle cap, retaining clip and cylinder pin	



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### 7.3 Dismantling outlet

#### 7.3.1 Dismantling outlet flange (conical NPT thread)


Illustrations	Description	Aids / Tools
 <p>Figure 7.3.1-1</p>	Place flange over the outlet of the body. Unscrew outlet adapter from outlet body.	Open-end spanner
 <p>Figure 7.3.1-2</p>	Unwind sealing tape from the thread of the outlet adapter.	

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### 7.3.2 Dismantling outlet flange (cylindrical thread)

Illustrations	Description	Aids / Tools
 <p><b>Figure 7.3.2-1</b></p>	Place flange over the outlet of the body. Screw outlet adapter out of outlet body.	Open-end spanner



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## 7.4 Dismantling the bonnet

### 7.4.1 Dismantling bonnet (without stainless steel bellows)


Illustrations	Description	Aids / Tools
 <p><b>Figure 7.4.1-1</b></p>	Secure the spindle/disc against turning.	Open-end spanner, Pin punch
 <p><b>Figure 7.4.1-2</b></p>	Unscrew and remove the bonnet.	Open-end spanner

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## 7.4.2 Dismantling bonnet (with stainless steel bellows)

Illustrations	Description	Aids / Tools
 <p><b>Figure 7.4.2-1</b></p>	<p>Secure the spindle/disc against turning.</p> <p>Unscrew and remove the bonnet.</p>	<p>Open-end spanner</p> <p>Pin punch</p>

## 7.5 Dismantling the spindle/disc assembly

### 7.5.1 Dismantling the assembly (with elastomer bellows)



Illustrations	Description	Aids / Tools
 <p><b>Figure 7.5.1-1</b></p>	<p>Pull the assembly out of the outlet body carefully.</p> <p>Pull the top spring plate, spring and bottom spring plate from the spindle one after the other.</p>	

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### 7.5.2 Dismantling the assembly (with stainless steel bellows)


Illustrations	Description	Aids / Tools
 <p><b>Figure 7.5.2-1</b></p>	<p>Pull the top spring plate, spring and bottom spring plate from the spindle one after the other.</p>	
 <p><b>Figure 7.5.2-2</b></p>	<p>Loosen the bonnet spacer with the C-spanner and remove.</p>	<p>C-spanner with a nose</p>

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### 7.5.3 Dismantling the assembly (without bellows)

Illustrations	Description	Aids / Tools
 <p>Figure 7.5.3-1</p>	<p>Pull the assembly out of the outlet body carefully.</p>	





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## 7.6 Dismantling spindle/disc assembly

### 7.6.1 Dismantling spindle/disc assembly (without bellows)

Illustrations	Description	Aids / Tools
 <p>Figure 7.6.1-1</p>	Pull the top spring plate, spring and bottom spring plate from the spindle one after the other.	
 <p>Figure 7.6.1-2</p>	Remove retaining clip and half-washers.	
 <p>Figure 7.6.1-3</p>	Pull the guide off the spindle.	
 <p>Figure 7.6.1-4</p>	Drive the pin out of the spindle with the pin punch. Pull disc off the spindle.	Pin punch


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## 7.6.2 Dismantling spindle/disc assembly (with stainless steel bellows)




Illustrations	Description	Aids / Tools
 <p><b>Figure 7.6.2-1</b></p>	<p>Drive the pin out of the spindle with the pin punch. Pull disc off the spindle.</p>	<p>Pin punch</p>
 <p><b>Figure 7.6.2-2</b></p>	<p>Pull the spindle with the bellows out of the cooling zone.</p>	
 <p><b>Figure 7.6.2-3</b></p>	<p>Remove retaining clip and half-washers.</p> <p>The bellows and spindle cannot be separated because they are glued together.</p>	

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### 7.6.3 Dismantling spindle/disc assembly (with elastomer bellows)

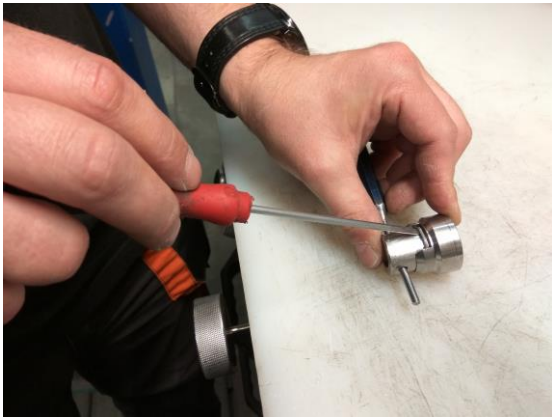

Illustrations	Description	Aids / Tools
 <p><b>Figure 7.6.3-1</b></p>	Cut through cable tie.	
 <p><b>Figure 7.6.3-2</b></p>	Pull elastomer bellows from the disc and from the guide. Pull the bellows and guide from the spindle.	
 <p><b>Figure 7.6.3-3</b></p>	Pull out the 4 pins and remove the disc.	

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## 7.7 Disassembly Disc-assembly (with securing ring)

Illustration	Description	Aids / Tools
 <p><b>Figure 6.7.5-1</b></p>	<p>Remove the end of the securing ring from the recess.</p>	<p>Screwdriver</p>
 <p><b>Figure 6.7.5-2</b></p>	<p>Rotate the lifting aid with the sickle spanner in anti-clockwise direction so that the securing comes out of the recess and the assembly is dismantled.</p> <p><b>!!!ATTENTION!!! The re-use of an already installed boring bar is not permissible.</b></p>	<p>Sickle spanner</p>



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## 7.8 Dismantling the inlet body

### 7.8.1 Inlet body disassembly for flanged connector

Illustrations	Description	Aids / Tools
 <p><b>Figure 7.8.1-1</b></p>	Remove outlet body from inlet body with an open-end spanner.	
 <p><b>Figure 7.8.1-2</b></p>	Screw off the outlet body. Remove the loose flange from the inlet body.	

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## 7.8.2 Dismantling inlet body for threaded connector

Illustrations	Description	Aids / Tools
 <p>The top photograph shows a close-up of a valve assembly mounted on a workbench. An open-end spanner is positioned around the outlet body to loosen it. The bottom photograph shows the same assembly from a different angle, with the outlet body being rotated and unscrewed from the inlet body.</p>	<p>Loosen the outlet body with the open-end spanner. Unscrew outlet body from inlet body.</p>	




Figure 7.8.2-1

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## 7.9 Dismantling the pressure screw

Illustrations	Description	Aids / Tools
 <p><b>Figure 7.8.2-1</b></p>	Screw adjusting screw out of the bonnet	
 <p><b>Figure 7.8.2-2</b></p>	Unscrew lock nut from adjusting screw.	
 <p><b>Figure 7.8.2-3</b></p>	Remove PTFE bushing from the adjusting screw.	

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