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1 Purpose

This LESER Global (LGS) describes the Tool KIT requirements for equipping an agency or a warehouse for goods receiving/storage, adjusting, testing and shipping of safety valves.

2 Scope

This LGS applies to all members of the LESER quality cluster as defined in the global quality management manual.

3 Introduction

- The Clean Service Additional Tool KIT is an assembly of tools that are required for the work on Clean Service safety valves shown in section 5 in addition to the Standard Tool KIT.

Order number	0161.0003
Internet	www.sales@leser.com

4 Designated use of the Clean Service Additional Tool KIT

- Assembly of safety valves
- Disassembly of safety valves
- Adjusting the set pressure of safety valves

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5 Components of the Clean Service Additional Tool KIT

All tools found in this LWN are part of the Clean Service Additional Tool KIT. The following pages specify the individual tools through descriptions and by giving practical examples. The technical illustrations show what the respective tools look like.

5.1 Double-ended open spanner with unequal widths across flats

The double-ended open spanner is used for tightening or unscrewing bolts and nuts.

Designated purpose of double-ended open spanners

- manual tool for tightening or unscrewing bolts and nuts such as caps, levers, and inflow devices
- screw connection of a variety of nuts and bolts on the safety valve (e.g. pressure setting of the safety valve).



Fig. 1 Installing the cap



Fig. 2 Pressure setting of the safety valve

Technical requirements

Requirements / Quality	Data	Data
Width across flats in mm	12 x 13	41 x 46
Manufacturer	GEDORE	
Material	Chrome-vanadium-steel	
Design	chrome-plated	
Length	172 mm	400 mm
Vendor	Hahn & Kolb	
Order number number	52012-150	52012-420
LESER order number	596.0089	596.0089
Tool kit number	0161.0003	

Technical illustration



Illustration 1: Double-ended open spanner

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Internet	www.hahn-kolb.de
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5.2 Hook spanner

The hook spanner is considered to be an assembly tool specifically for bodies (nuts).

Designated purpose of the hook spanner

- assembly of the body
- assembly of the safety valve on an apparatus

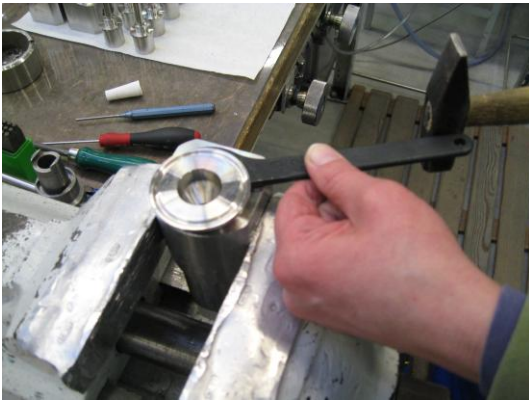


Fig. 3 Installation of the O-ring disc with a C-spanner with nose



Fig. 4 Installation of the O-ring disc

Technical requirements

Requirements / Quality	Data
Code	DIN 1810 A
Nuts, outside Ø	40 – 42 mm
Thickness	5 mm
Length	170 mm
For slotted round nuts	DIN 1804
For roller bearing nuts	DIN 981
Vendor	Hahn & Kolb
Order number number	52100-060
LESER order number	596.0088.0000
Tool kit number	0161.0003
Internet	www.hahn-kolb.de

Technical illustration



Illustration 2: Hook spanner

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5.3 Pin-type spanner wrench

The pin-type spanner wrench is to be used specifically as an assembly tool in the assembly of bodies.

Designated purpose of a pin-type spanner wrench

- assembly of the body



Fig. 5 Installation of the O-ring disc with a pin-type spanner wrench



Fig. 6 Installation of the O-ring disc

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Technical requirements

Requirements / Quality	Data
Code	DIN 1810 B
Nuts, outside Ø	20 – 22 mm
Pin Ø	2.5 mm
Length	110 mm
For round nuts with a set pin hole in the side	DIN 1816
Vendor	Hahn & Kolb
Order number number	52102-030
LESER order number	596.0087.0000
Tool kit number	0161.0003
Internet	www.hahn-kolb.de

Technical illustration



Illustration 3: pin-type spanner wrench

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5.4 Aseptic assembly tool

The hook spanner is considered to be an assembly tool specifically for nozzles (nuts).

Designated purpose of the aseptic assembly tool

- assembly of nozzles
- For types 48x, the disc must be installed with the aseptic assembly tool.



Fig. 7 Installation of the Elmoster bellows

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Technical requirements

Requirements / Quality	Data	Data	Data
LWN	351.49		
Sizes	DN 25	DN 32 – 50	DN 65 – 100
For valve type	48X		
Vendor	LESER		
LESER order number	445.0139.0000	445.0239.0000	445.0339.0000
Tool kit number	0161.0003		
Internet	www.sales@leser.com		

Technical illustration



Illustration 4: Aseptic assembly tool

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