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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 API Additional Tool KIT is an assembly of tools required for work on safety valves of the API 526 series shown in section 5 in addition to the Standard Tool KIT.

<b>Order number</b>	<b>0161.0004</b>
<b>Internet</b>	<b>www.sales@leser.com</b>

**4 Designated use**

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

disclosure cat.:	II	proofread:	Kuw	published date:	8/31/11	effect. date:	10/11
author:	Kro	released by:	KUW	replaces:	369-60	status:	published
resp. depart.:	PP	date of release:	9/15/11	revision No.:	0		
doc. type:	LGS	change rep. No.:	00882A	retention period:	10y.		

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## 5 Components of the API Additional Tool KIT

All tools found in this LWN are part of the Standard API 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 use

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



Fig. 1 Unscrewing a screw connection



Fig. 2 Dealing the drain hole

#### Technical requirements

Requirements / Quality	Data
Width across flats in mm	36 x 41
Manufacturer	GEDORE
Material	Chrome-vanadium-steel
Design	chrome-plated, matt
Jaw position	15°
Length	360 mm
Vendor	Hahn & Kolb
External order number	52012-410
LESER order number	596.0093.0000

#### Technical illustration



Illustration 1: Double-ended open spanner

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disclosure cat.:	II	proofread:	Kuw	published date:	8/31/11	effect. date:	10/11
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Tool kit number	0161.0004
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 nozzles.

### **Designated purpose of the hook spanner**

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



Fig. 3 Installing the nozzle



Fig. 4 Installing the snap ring

### **Technical requirements**

Requirements / Quality	Data	Data
Width across flats in mm	52x55	68x75

### **Technical illustration**




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author:	Kro	released by:	KUW	replaces:	369-60
resp. depart.:	PP	date of release:	9/15/11	revision No.:	0
doc. type:	LGS	change rep. No.:	00882A	retention period:	10y.

date:	10/11
status:	published

Manufacturer	GEDORE	
Material	Chrome-vanadium-steel	
Design	chrome-plated	
Length	206 mm	240 mm
Vendor	Hahn & Kolb	
External order number	52100-080	52100-100
LESER order number		
Tool kit number	0161.0004	
Internet	www.hahn-kolb.de	

disclosure cat.:	II	proofread:	Kuw	published date:	8/31/11	effect. date:	10/11
author:	Kro	released by:	KUW	replaces:	369-60	status:	published
resp. depart.:	PP	date of release:	9/15/11	revision No.:	0		
doc. type:	LGS	change rep. No.:	00882A	retention period:	10y.		

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Requirements / Quality	Data	Data	Data	Data	Data
Width across flats in mm	80x90	95x100	120x130	135x145	155x165
Manufacturer	GEDORE				
Material	Chrome-Vanadium-Steel				
Design	chrome-plated				
Length	280 mm	280 mm	335 mm	385 mm	385 mm
Vendor	Hahn & Kolb				
External order number	52100-110	52100-120	52100-140	52100-150	52100-160
LESER order number					
Tool kit number	0161.0004				
Internet	www.hahn-kolb.de				

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Requirements / Quality	Data	Data	Data	Data
Width across flats in mm	180x195	205x220	230x245	260x270
Manufacturer	GEDORE			
Material	Chrome-Vanadium-Steel			
Design	chrome-plated			
Length	470 mm	470 mm	568 mm	568 mm
Vendor	Hahn & Kolb			
External order number	52100-170	52100-180	52100-190	52100-200
LESER order number				
Tool kit number	0161.0004			
Internet	www.hahn-kolb.de			

disclosure cat.:	II	proofread:	Kuw	published date:	8/31/11	effect. date:	10/11
author:	Kro	released by:	KUW	replaces:	369-60	status:	published
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