



Device test card for cutting devices		
<i>for test equipment with electronic measuring transducer 176717000</i>		
Device type:	Model:	LUKAS
Serial no.:		
Device holder:		
Regulations:	- operating instructions (device) - GUV-G 9102 - operating instructions (test equipment)	Test interval
		- according to GUV-G 9102 - after repair work


Basic safety instructions:

 **WARNING / CAUTION / PLEASE NOTE!**
 Personal protective equipment must ALWAYS be worn when testing devices!

 In addition, adequate screening*) must ALWAYS be worn when carrying out the tests!
 LUKAS rescue equipment may only be tested with LUKAS test equipment!


*) Appropriate screening may be obtained from your authorized LUKAS dealer or directly from LUKAS!

NOTE:

 Before using this test card, ensure that the card is up to date and only use the latest version.
 The latest device test cards may be obtained from the LUKAS website or directly from LUKAS.

Test devices required for cutting equipment:

- Hydraulic aggregate (**note operating pressure**)
- Test bolts
- Test manometer
- Cutting force test device
- Measuring transducer
- Crack test set
- Stop watch
- Appropriate protective screening

 **ATTENTION!**
 Testing with the cutting force test device may only be carried out with cutting devices S 310, S 311, S 330, S 510, S 530 and S 700. Testing other cutting devices may damage the test equipment.

Evaluation:

Results:					
Repaired on:					
Released for use on:					
Blocked / no longer approved for use on:					
Signature of test person:					

Visual Inspection:

Tests	Target value	Results	Results	Results	Results
Opening width of measuring arms at the tips	1)				
General sealing (leaks)					
Operability of the star grip					
Existence and stability of handle					
Blade arms free of cracks and nicks or deformations on the cutting surfaces					
The sliding plates, bolts and retaining rings of the blade arms are in place and in good condition					
Cutting surfaces fit on top of each other without making contact					
Torque of central bolt checked	1)				
Corrugation of the tips clean and well-edged, no tears					
Labels complete and legible					
Covers in perfect condition					
Couplings easy to operate					
Dust caps in place					
All hoses undamaged					
Anti-kink protection in place and undamaged					
Hoses are not yet 10 years old (see imprint date)					

1) The target values are to be taken out of the target value table for LUKAS rescue equipment and entered in the test table.

Remarks about visual inspection:

Functional test:

Tests	Target value	Results	Results	Results	Results
Environmental temperature during functional test °C / °F	15...35 / 59...95				
Pressure when pump is in operation (p_1 in bar)					
Pressure when closing the cylinder (p_2 in bar)					
Differential pressure p_{DIFF} ($p_{DIFF} = p_2 - p_1$)	2)				
Opening time, unloaded (in seconds)	3)				
Closing time, unloaded (in seconds)	3)				
Close shear blade against test pin and read off pressure at the test manometer (in bar)	2) 5)				
	2)				
No further movement when releasing the star grip while opening or closing	4)				

2) The target values are to be taken out of the target value table for LUKAS rescue equipment and entered in the test table.

3) Depending on the volume transported by the tested hydraulic aggregate, the relevant target values are to be taken from the diagrams (see target value table) and entered under "target value" in the test table. The transport volume is indicated in the technical data for the hydraulic aggregate (or on the type label of the hydraulic aggregate). [Time deviations of $\pm 15\%$ are acceptable]

4) The star grip must automatically return to the neutral position and the cutter arms may not automatically change position once they have returned to the neutral position (no run-on). If the conditions above are not met, a valve test must be carried out.

5) The S 120 cutting device must be tested without a test pin. To do this, fully close the blade arms of the device and apply pressure. Then read off the pressure at the test manometer.



PLEASE NOTE for testing with test bolt:

Ensure that you never use the same part of the test bolt twice.



NOTE:

The first step is always to test the cutting devices with the test bolt and the test manometer. Only when there are doubts about the result should a second test be carried out with the cutting force test device.

Remarks about functional test: