




Device test card for rescue cylinder		
<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 combination devices:

- Hydraulic aggregate (**note operating pressure**)
- Test manometer
- Test frame for rescue cylinder
- Measuring transducer
- Stop watch
- Appropriate protective screening

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
Cylinder and piston rod undamaged and not deformed					
Claws in place and in correct position					
State of claws (no break-outs or cracks)					
General sealing (leaks)					
Operability of the star grip					
Piston can be fully raised	1)				
Labels complete and legible					
Anti-kink protection in place and undamaged					
Couplings easy to operate					
Dust caps in place					
All hoses 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 extending the cylinder (p_2 in bar)					
Differential pressure p_{DIFF} ($p_{DIFF} = p_2 - p_1$)	2)				
Piston extension time, fully and in an unloaded state (in seconds)	3)				
Piston retraction time, fully and in an unloaded state (in seconds)	3)				
Compressive force test	2)				
Pressure maintenance test Loss of pressure or force after 1 minute	max. 10%				
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 piston rod may not automatically change position once it has returned to the neutral position (no run-on). If the conditions above are not met, a valve test must be carried out.

Remarks about functional test: