



Hydraulic pressure comparison test pump Serie LR-Cal LSP-H

- Pressure source for calibration purposes
- Spindle pump and priming pump

Type LR-Cal LSP 1000-H: 1,000 bar/14,500 psi Type LR-Cal LSP 1200-H: 1,200 bar/17,400 psi Type LR-Cal LSP 1600-H: 1,600 bar/23,200 psi

Operating fluid: mineral oil based hydraulic fluid or destilled water

Pressure comparison test pumps are used for generating pressure for the testing, adjusting and calibrating of mechanical and electronic pressure measuring instruments by means of comparison measurements. These pressure tests can be carried out in laboratories, workshops or on site at the set measuring point. When the device under test and a reference measuring instrument with an adequate accuracy are connected to the pressure comparator, the same pressure will act on both measuring instruments after actuating the pump. A calibration or an adjustment can be carried out by comparing the two measured values at any pressure value.

In order to enable an accurate generation of the measuring points, the pressure comparison test pumps series LR-Cal LSP-H are provided with a fine adjustable spindle pump.



In addition the series LR-Cal LSP-H feature a threaded spindle which only runs within the pump body. Thus there is no adverse bending moment acting on an outstanding spindle, and particularly for field use this has the advantage that the dimension of these pressure comparison pumps will not change when the spindle is turned during operation. The series LR-Cal LSP-H needs only little force to generate also high pressures.

For an easier operating, the LR-Cal LSP-H series pressure comparators are fitted with a priming pump.

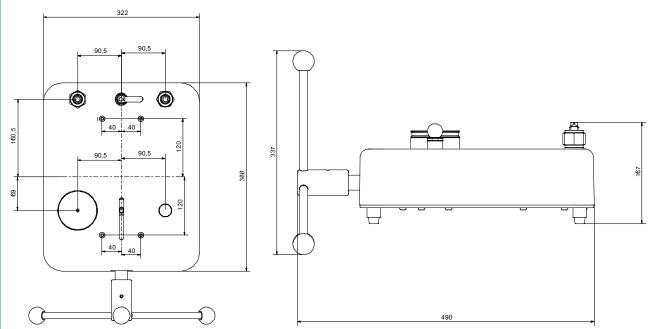
Versions for aggressive media like SKYDROL® or brake fluids available on request (max. 1,000 bar / 1,200 bar).



LSP-H Hydraulic pressure comparison test pump Pressure up to 1,000/1,200/1,600 bar

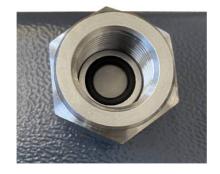


Dimensions:



Protection against material pollution:







The pressure comparison test pumps models LR-Cal LSP-H are equipped with strainer dirt collectors in the pressure ports as well as in the bottom of the operation fluid reservoir. This reduces considerable the risk of material pollution of the operation fluid.

(Note: if operated with hydraulic oil, the dirt collector in the reservoir has to be removed.)

Recommended pressure reference instruments:

Туре	Description	Accuracy
LR-Cal TLDMM-3.0+KL002	Pressure calibrator	±0.025% FS
LR-Cal TLDMM-3.0	Pressure calibrator	±0.05% FS
LR-Cal LHM+KL005	Pressure calibrator	±0.05% FS
LR-Cal LHM	Pressure calibrator	±0.1% FS
LR-Cal LDM 80+KL01	Digital test pressure gauge	±0.1% FS
LR-Cal LDM 80	Digital test pressure gauge	±0.2% FS
LR-Cal LDM 70-E25	Digital pressure gauge	±0.125% BFSL
LR-Cal LDM 70-K50	Digital pressure gauge	±0.25% BFSL
DM 80	Digital pressure gauge	±0.25% BFSL
DM 80-UMS	Digital pressure gauge with USB	±0.25% BFSL

Operation with pressure calibrator LR-Cal LHM with external pressure sensor LR-Cal LHM-TP16

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Hydraulic pressure comparison test pump Pressure up to 1,000/1,200/1,600 bar

LSP-H

Technical Data:

		LR-Cal LSP 1000-H	LR-Cal LSP 1200-H	LR-Cal LSP 1600-H	
Pressure range	[bar]	01,000	01,200	01,600	
Medium		Destilled water or mineral oil			
Pressure ports		2 x 1/2" BSP female rotating, incl. stainer and gasket			
Fluid reservoir	[cm³}	200			
Piston diameter	[mm]	8			
Spindle stroke	[cm³]	approx. 3.9 (per turnaround: approx. 0.1)			
Needed force	[Nm]	at 250 bar: 2.0 at 500 bar: 4.0 at 1,000 bar: 8.0			
Materials		Stainless steel, aluminium, viton, NBR, plastics			
Dimensions					
distance of pressure ports	[mm]		181		
	Depth [mm]	388 withou	t star handle 490 incl.	star handle	
	Width [mm]		322		
	Height [mm]	167 withou	t star handle 337 incl.	star handle	
Weight	[kg]	10.5			
Design		Base p	late with feet and rigit h	ousing	

Version for aggressive media such like SKYDROL® and brake fluids available on request: max. 1,000 bar = Order-Code: LSP-1000-H-S; max. 1,200 bar = Order-Code: LSP-1200-H-S. This versions are not suitable for mineral oil or water.

Optional Accessories:

Order-Code	Description	
HAP-02	Hand suction pump for easy emptying (and filling) of the reservoir. Capacity: 125 ml per stroke. Simultaneous suction and squeezing. 2 hoses, each 50 mm length, suction hose with rotating 3/8" BSP female swivel nut.	7
LSP-H-WARTUNG	Maintenance kit, with following content: 10 O-rings for pressure ports (10 O-rings for pressure ports (bottom), 2 sinter filter for reservoir, 4 strainer dirt collectors for pressure ports, 2 O-rings for priming pump	
BLINDSTOPFEN-G12-VA	Blind plugs in st.st. for pressure port (1/2" BSP), PN 3,600 bar	
LSP-ADAPTER-SET	Set of stainless steel adapter, PN 1,000 bar 1/4" BSP, M20x1.5, 1/4" NPT, 1/2" NPT, gaskets	
VA-M16X2-G12A	Minimess®1620 coupling to 1/2" BSP male for pressure port	
MMS-M16X2-1-0 MMS-M16X2-2-0 MMS-M16X2-3-2 MMS-M16X2-4-0	Minimess®1620 test hose 1.0 meter length Minimess®1620 test hose 2.0 meter length Minimess®1620 test hose 3.2 meter length Minimess®1620 test hose 4.0 meter length	
MSV-G12-M16X2	Minimess®1620 adapter to 1/2" BSP female	