Hydraulic pressure comparison test pump 1000 / 1200 / 1600 bar - 14500 / 17400 / 23200 psi

LSP-H

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

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

Model LR-*Cal* LSP 1000-H: 1000 bar/14500 psi Model LR-*Cal* LSP 1200-H: 1200 bar/17400 psi Model LR-*Cal* LSP 1600-H: 1600 bar/23200 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.

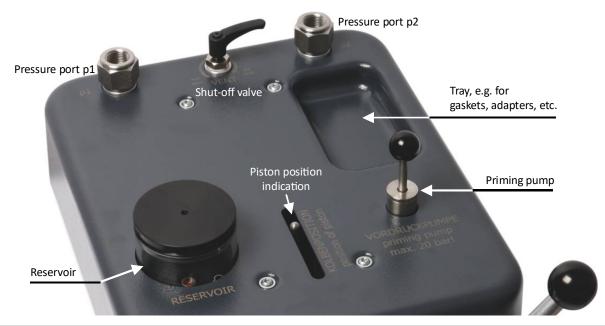
In order to enable an accurate generation of the measuring points, the pressure comparison test pumps series LR-Cal LSP-H are provided with a fine adjustable spindle pump.



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.

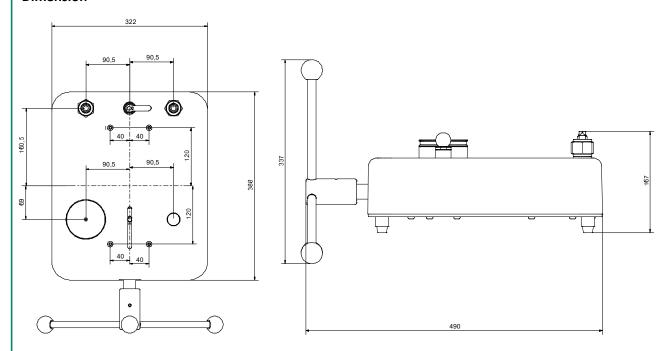
Versions for aggressive media like SKYDROL® or brake fluids available on request (max. 1,000 bar / 1,200 bar).



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Dimension



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 LPC 300	Documenting process calibrator	±0.025% FS
LR-Cal LPC 200	Electronic pressure calibrator	±0.025% FS
LR-Cal TLDMM 2.0	Precision digital reference gauge	±0.050% FS
LR-Cal LDM 80+KL01	Digital test pressure gauge	±0.100% FS
LR-Cal LDM 70-E25	Digital test pressure gauge	±0.125% FS
LR-Cal LDM 80	Digital test pressure gauge	±0.200% FS
LR-Cal LDM 70-K50	Digital test pressure gauge	±0.250% FS



DRUCK & TEMPERATUR Leitenberger GmbH • Bahnhofstr. 33 • D-72138 Kirchentellinsfurt • GERMANY Tel. +49 (0) 7121-90920-0 • Fax +49 (0) 7121-90920-99 • DT-Info@Leitenberger.de • www.LR-Cal.net • www.druck-temperatur.de



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Technical Data

Technical Data		LR- <i>Cal</i> LSP 1000-H	LR-Cal LSP 1200-H	LR- <i>Cal</i> LSP 1600-H
Pressure range	[bar]	01,000	01,200	01,600
	[psi]	014,500	017,400	023,200
Medium		Mineral Oil or Destilled Water		
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 without star-handle; 490 incl. star-handle		
	Width [mm]		322	
	Height [mm]	167 witho	out star-handle; 337 incl. st	ar-handle
Weight	[kg]		10.5	
Design		Base p	late with feet and rigid hou	using

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 500 mm length, suction hose with rotating 3/8" BSP female swivel nut.	*
LSP-H-WARTUNG	Maintenance kit, with following content: 10 O-rings for pressure p 10 O-rings for pressure ports (bottom), 2 sinter filter for reservoir, 4 strainer dirt collectors for pressure ports, 2 O-rings for priming p	
BLINDSTOPFEN-G12-VA	Blind plugs for pressure port (1/2" BSP) st.st., PN 3600 bar	80
LSP-ADAPTER-SET	Set of stainless steel adapters, PN 1000 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	Minimess 1620 hose 1.0 m	
MMS-M16X2-2-0 MMS-M16X2-3-2	Minimess 1620 hose 2.0 m Minimess 1620 hose 3.2 m	I
MMS-M16X2-4-0	Minimess 1620 hose 4.0 m	
MSV-G12-M16X2	Minimess 1620 adapter to 1/2" BSP female	