

### Pressure Test Pump LR-Cal LPP 1000

- hydraulic operated (suitable for mineral oil based hydraulic fluids or clean distilled water, free of calcium-carbonate / scale)
- generating test pressure up to 14 500 PSI (1000 bar)
- flexible high pressure test hose included

The portable Calibration Test Pump LR-Cal LPP 1000 has been designed for easy to use pressure calibration equipment "in the field", for testing pressure gauges, pressure switches and pressure transmitters. 14 500 PSI (1000 bar) can be reached in a simple way, using the "prime/high pressure" selector.

Reference instruments such as electronic pressure calibrators LR-Cal LPC 300, LR-Cal LPC 200 and LR-Cal TLDMM as well as precision digital reference pressure gauges as LR-Cal LDM 80 and LR-Cal LDM 70 can be mounted directly on the top of the LR-Cal LPP 1000 pressure test pump. High quality construction, no leakage.

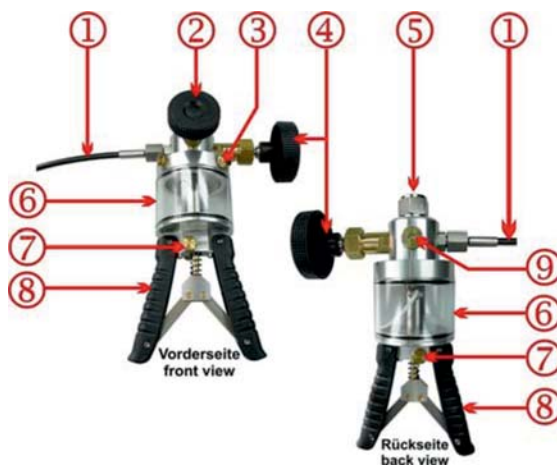


The Calibration Test Pump LR-Cal LPP 1000 is supplied including a flexible high pressure test hose, length 1 m, with 1/4" BSP F port.

### Specification:

Pressure ports:	<b>for reference instrument:</b> 1/2" BSP female, rotating, at the top of the pump. After dismounting of the 1/2" BSP swivel, you have a 3/8" BSP female thread, suitable for a lot of special reference instruments <b>for test item:</b> high pressure test hose (length 1 m), with coupling to 1/4" BSP female thread
Liquid reservoir:	200 cm <sup>3</sup> (re-filling during pressure generation possible)
Construction:	High quality, no leakage, robust, portable, easy to handle
Pressure adjustment:	Pressure fine control and pressure release valve.
Dimensions / weight:	appr. 270 x 160 x 120 mm (without hose) / appr. 1.3 kg (without hose)
Option:	special version LR-Cal LPP 1000-S, suitable for brake fluid / SKYDROL.

### Control elements LR-Cal LPP 1000:



- (1) = flexible high pressure test hose PN 14,500 psi
- (2) = Pressure release valve, fine adjustable
- (3) = Liquid reservoir filling plug
- (4) = Fine control (volume adjustment)
- (5) = 1/2" BSP female rotating reference port
- (6) = Liquid reservoir
- (7) = Priming / high pressure switching knob
- (8) = Pump handles
- (9) = Blind plug, if existing, never open!

# LPP 1000 Pressure Test Pump 1000 bar, hydraulic Portable pressure source up to 14,500 psi


LR-Cal



## Available Types:

Type	Generating pressure up to	Order-Code
LPP 1000	14 500 PSI (1000 bar), suitable for mineral oil based hydraulic fluids or clean distilled water, free of calcium-carbonate / scale. <b>Not</b> suitable for water based hydraulic fluids.	<b>LPP-1000</b>

## Accessories:

Type	Description	Order-Code
Case	Plastic case with foams, for <b>LR-Cal LPP 1000</b> , hose, adapters and reference instrument	<b>LPP-H-KOFFER</b>
Adapter BSP	st.st. Adapter set (BSP) incl. spare O-rings, for test specimen port: 1/8" BSP, 3/8" BSP, 1/2" BSP M & F	<b>LPP-ADAPTER-BSP</b>
Adapter NPT	st.st. Adapter set (NPT), for test specimen port: 1/8" NPT, 1/4" NPT, 3/8" NPT, 1/2" NPT	<b>LPP-ADAPTER-NPT</b>
Adapter metric	st.st. Adapter set (metric) incl. spare O-rings, for test specimen port: M 12 x 1.5 and M 20 x 1.5	<b>LPP-ADAPTER-M</b>
Service	Service kit (seals, gaskets, ...) for <b>LR-Cal LPP 1000</b>	<b>LPP-H-WARTUNG</b>
Fluid	Special operating oil for <b>LR-Cal LPP 1000</b> (1 l bottle)	<b>CPB5000-FLUID</b>
Analogue referenz-pressure gauge LPP-MANO 	Analogue reference pressure gauge DS 100 mm (4") Dial with fine graduation, knife pointer, pressure port 1/2" BSP male, range 0 - 60 bar / 0 - 800 PSI Accuracy $\pm 0.6\%$ f.s.	<b>LPP-MANO-0060</b>
	Ditto, 0 - 100 bar / 0 - 1400 PSI, accuracy $\pm 0.6\%$ f.s.	<b>LPP-MANO-0100</b>
	Ditto, 0 - 160 bar / 0 - 2000 PSI, accuracy $\pm 0.6\%$ f.s.	<b>LPP-MANO-0160</b>
	Ditto, 0 - 250 bar / 0 - 3000 PSI, accuracy $\pm 0.6\%$ f.s.	<b>LPP-MANO-0250</b>
	Ditto, 0 - 400 bar / 0 - 5000 PSI, accuracy $\pm 0.6\%$ f.s.	<b>LPP-MANO-0400</b>
	Ditto, 0 - 600 bar / 0 - 8000 PSI, accuracy $\pm 1.0\%$ f.s.	<b>LPP-MANO-0600</b>
	Ditto, 0 - 1000 bar / 0 - 14500 PSI, accuracy $\pm 1.0\%$ f.s.	<b>LPP-MANO-1000</b>
MINIMESS hose in other lengths	MINIMESS ° 1620 hose, length 2.0 m	<b>MMS-M16X2-2-0</b>
	MINIMESS ° 1620 hose, length 3.2 m	<b>MMS-M16X2-3-2</b>
	MINIMESS ° 1620 hose, length 4.0 m	<b>MMS-M16X2-4-0</b>

### Recommended precision reference pressure instruments:

		Accuracy:
• Electronic process calibrator	<b>LR-Cal LPC 300</b>	$\pm 0.025\%$ f.s.
• Electronic pressure calibrator	<b>LR-Cal LPC 200</b>	$\pm 0.025\%$ f.s. / $\pm 0.1\%$ m.v.
• Electronic pressure calibrator	<b>LR-Cal TLDMM</b>	$\pm 0.05\%$ f.s.
• Digital precision reference pressure gauge	<b>LR-Cal LDM 80+KL01</b>	$\pm 0.1\%$ f.s.
• Digital precision reference pressure gauge	<b>LR-Cal LDM 80</b>	$\pm 0.2\%$ f.s.
• Digital test pressure gauge	<b>LR-Cal LDM 70-E25</b>	$\pm 0.125\%$ f.s.
• Digital test pressure gauge	<b>LR-Cal LDM 70-K50</b>	$\pm 0.25\%$ f.s.