

## Pressure Test Pump **LR-Cal** LPP 1000

- manually operated, for mineral oil or clean distilled water
- pressure source up to 14,500 psi (1,000 bar)
- including high pressure test hose
- suitable for hydraulic liquids on the basis of mineral oil or distilled water



The Pressure Test Pump **LR-Cal** LPP 1000 is used to generate pressure for checking, adjusting and calibrating mechanical and electronic pressure measuring instruments by comparative measurements. These pressure tests may be carried out in laboratories, workshops or directly on-site at the measuring point.

If the instrument under test and a sufficiently accurate reference measuring instrument are connected to the **LR-Cal** LPP 1000, the same pressure is applied to both instruments when the pump is operated.

Despite to its compact dimensions, the Pressure Test Pump **LR-Cal** LPP 1000 is easy to operate and allows for exact generation of the required test pressures. The **LR-Cal** LPP 1000 is fitted with a fine adjustment valve for the precise adjustment of pressures. The reference instrument is screwed on top of the pump and the unit under test is connected by means of a connection tube incorporating an adapter 1/4 BSP rotating female port (see optional accessories for different suitable adapters if necessary).

**See also: **LR-Cal** LPP-KIT - calibration kits including pump, reference unit, adapters, case etc.**

### Specification:

pressure generation:	manually, 0 to 14,500 psi (0 to 1,000 bar)
pressure ports:	for reference unit: 1/2" BSP female, swivel nut with o-ring on top of the pump for test unit: 1/4" BSP female connected to a 1 meter test hose
liquid reservoir:	volume >200 cm <sup>3</sup> (refillable during pumping process), made out of plexiglas
construction:	of high quality, portable, easy handling, all pumps are 100% tested in terms of function, performance and tightness
pressure adjustment:	fine adjustment valve, pressure relief valve
draining:	drain screw at the bottom of the reservoir (for 4 mm hex wrench)
dimensions/weight:	approx. 270 x 160 x 120 mm, approx. 1.3 kg (without hose)

### Standard Scope of Delivery:

- Pressure Test Pump **LR-Cal** LPP 1000
- connection hose for test unit, 1 meter with 1/4" BSP female thread
- operation manual

## Article-Numbers:

**LPP-1000** **LR-Cal LPP 1000** as described overleaf, suitable for mineral oil or distilled water

**LPP-1000-OXY** the same, but free of grease and oil, suitable for **oxygen**  
delivery WITHOUT hose for test unit, port for test unit 1/8" BSP female is fitted at  
the side of the pump.

**This version can be used with distilled water ONLY!**

## Optional Accessories:

Type	Description	Article-Number
Case	Transit case for storage and transport, with customized foams, including filling bottle, space for adapter sets and reference unit up to DN 100 / 80x80	<b>LPP-H-KOFFER</b>
Adapter	Pipe thread adapter set and spare o-rings for test unit connection: 1/8" BSP F, 3/8" BSP F, 1/2" BSP F, 1/2" BSP M	<b>LPP-ADAPTER-BSP</b>
	NPT adapter set and spare o-rings for test unit connection: 1/8" NPT F, 1/4" NPT F, 3/8" NPT F and 1/2" NPT F	<b>LPP-ADAPTER-NPT</b>
	metric adapter set and spare o-rings for test unit connection: M12x1.5, M20x1.5 and MINIMESS1620	<b>LPP-ADAPTER-M</b>
Oil	Acid- and additive-free hydraulic oil, 1 litre bottle	<b>CPB5000-FLUID</b>
Service	Maintenance and service kit	<b>LPP-H-WARTUNG</b>

## Analogue Reference Manometers, Accuracy Class 0.6 and 1.0, DN 100

0...60 bar / 0...800 psi, accuracy class 0.6	<b>LPP-MANO-0060</b>
0...100 bar / 0...1400 psi, accuracy class 0.6	<b>LPP-MANO-0100</b>
0...160 bar / 0...2000 psi, accuracy class 0.6	<b>LPP-MANO-0160</b>
0...250 bar / 0...3000 psi, accuracy class 0.6	<b>LPP-MANO-0250</b>
0...400 bar / 0...5000 psi, accuracy class 0.6	<b>LPP-MANO-0400</b>
0...600 bar / 0...8000 psi, accuracy class 1.0	<b>LPP-MANO-0600</b>
0...1000 bar / 0...14500 psi, accuracy class 1.0	<b>LPP-MANO-1000</b>

## Digital Reference Measuring Unit and Pressure Calibrators

Digital Reference Measuring Unit and Pressure Calibrators	Accuracy
Precision Hand-Held Meter with Pressure Sensor <b>LR-Cal LHM</b>	±0.05% / ±0.1% FS
Precision Reference Test Pressure Gauge <b>LR-Cal TLDMM 2.0</b>	±0.05% FS
Digital Test Pressure Gauge <b>LR-Cal LDM 80 + KL01</b>	±0.1% FS
Digital Test Pressure Gauge <b>LR-Cal LDM 80</b>	±0.2% FS
Digital Test Pressure Gauge <b>LR-Cal LDM 70-E25</b>	±0.125% BFS
Digital Test Pressure Gauge <b>LR-Cal LDM 70-K50</b>	±0.25% BFS