



# Sistemi di calibrazione per temperatura e pressione

## Banchi prova rubinetteria e componenti idraulici

### Apparecchiature di test

Calibration Test Pump LPP 1000 (hydraulic)  
Pressure up to 14 500 PSI (1000 bar)

**LPP 1000**

#### Calibration Test Pump LPP 1000

- hydraulic operated (suitable for mineral oil based hydraulic fluids or clean 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 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 as electronic pressure calibrators LPC 300, LPC 200 and TLDMM as well as precision digital reference pressure gauges as TLDMM-A01, TLDMM-A02 and LDM 70 can be mounted directly on the top of the LPP 1000. High quality construction, no leakage.



The Calibration Test Pump 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> flexible 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 LPP-1000-S, suitable for brake fluid / SKYDROL.

#### Control elements LPP 1000:



- (1) = flexible high pressure test hose PN 14500 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, never open!)

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#### 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 water, free of calcium-carbonate / scale. <b>NOT</b> suitable for distilled water or water based hydraulic fluids.	<a href="#">LPP-1000</a>
LPP 1000-S	14 500 PSI (1000 bar), suitable for SKYDROL and other brake fluids <b>NOT</b> suitable for hydraulic oil	<a href="#">LPP-1000-S</a>

#### Accessories:

Type	Description	Order-Code
Case	Plastic case with foams, for LPP 1000, hose, adapters and reference instrument	<a href="#">LPP-H-KOFFER</a>
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	<a href="#">LPP-ADAPTER-BSP</a>
Adapter NPT	st.st. Adapter set (NPT), for test specimen port: 1/8" NPT, 1/4" NPT, 3/8" NPT, 1/2" NPT	<a href="#">LPP-ADAPTER-NPT</a>
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	<a href="#">LPP-ADAPTER-M</a>
Service	Service kit (seals, gaskets, ...) for LPP 1000	<a href="#">LPP-H-WARTUNG</a>
Fluid	Special operating oil for LPP 1000 (1 l bottle)	<a href="#">CPB5000-FLUID</a>
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.	<a href="#">LPP-MANO-0060</a>
	Ditto, 0 - 100 bar / 0 - 1400 PSI, accuracy $\pm 0.6\%$ f.s.	<a href="#">LPP-MANO-0100</a>
	Ditto, 0 - 160 bar / 0 - 2000 PSI, accuracy $\pm 0.6\%$ f.s.	<a href="#">LPP-MANO-0160</a>
	Ditto, 0 - 250 bar / 0 - 3000 PSI, accuracy $\pm 0.6\%$ f.s.	<a href="#">LPP-MANO-0250</a>
	Ditto, 0 - 400 bar / 0 - 5000 PSI, accuracy $\pm 0.6\%$ f.s.	<a href="#">LPP-MANO-0400</a>
	Ditto, 0 - 600 bar / 0 - 8000 PSI, accuracy $\pm 1.0\%$ f.s.	<a href="#">LPP-MANO-0600</a>
	Ditto, 0 - 1000 bar / 0 - 14500 PSI, accuracy $\pm 1.0\%$ f.s.	<a href="#">LPP-MANO-1000</a>
<b>Recommended precision reference pressure instruments:</b>		<b>Accuracy:</b>
• Electronic process calibrator <b>LPC 300</b>		$\pm 0.025\%$ f.s.
• Electronic pressure calibrator <b>LPC 200</b>		$\pm 0.025\%$ f.s. / $\pm 0.1\%$ m.v.
• Electronic pressure calibrator <b>TLDMM</b>		$\pm 0.05\%$ f.s.
• Digital precision reference pressure gauge <b>TLDMM-A01</b>		$\pm 0.1\%$ f.s.
• Digital precision reference pressure gauge <b>TLDMM-A02</b>		$\pm 0.2\%$ f.s.
• Digital test pressure gauge <b>LDM 70-E25</b>		$\pm 0.25\%$ f.s.
• Digital test pressure gauge <b>LDM 70-K50</b>		$\pm 0.5\%$ f.s.

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