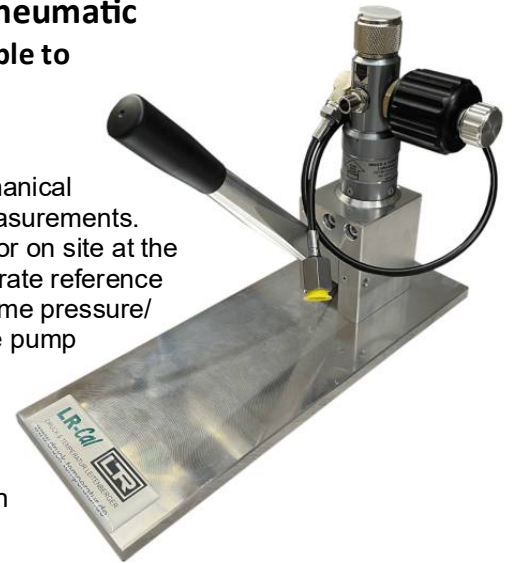


## Pressure Comparison Test Pump LR-Cal LPP 60-T, pneumatic

Generation of test pressure up to +60 bar (870 psi), switchable to  
Generation of vacuum to -0.95 bar (-28 inHg)

The Calibration Test Pump **LR-Cal LPP 60-T** is used to generate pressures and vacuum for checking, adjusting and calibrating mechanical and electronic pressure measuring instruments by comparative measurements. These pressure tests may be carried out in laboratories, workshop or on site at the measuring point. If the instrument under test and a sufficiently accurate reference measuring instrument is connected to the **LR-Cal LPP 60-T**, the same pressure/ same pressure / vacuum is applied to the two instruments when the pump is operated.



Despite its compact dimensions, the calibration test pump **LR-Cal LPP 60-T** is easy to operate and allows for exact generation of the required test pressures. A change-over switch enables the generation of vacuum as well. The **LR-Cal LPP 60-T** is fitted with a fine adjustment valve for the precise adjustment of pressures. The reference instrument is screwed directly on to the 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 (optional 1/4" NPT female) port.

### Specification:

Pressure generation:	0...60 bar = 0...870 psi (or equivalent), switchable to
Vacuum generation:	0...- 0,95 bar = 0...-28 inHG (or equivalent)
Pressure ports:	1/2" BSP female rotating (with seal) for reference instrument on the top of the pump (Type <b>LPP-60-T-N14</b> : 1/4" NPT female, type <b>LPP-60-T-G14</b> : 1/4" BSP female rotating) 1/4" BSP female for unit under test (at connection tube) (Type <b>LPP-60-T-N14</b> : 1/4" NPT female)
Volume per stroke:	appr. 11 cm <sup>3</sup>
Materials:	anodized aluminum, brass (chromium plated)
Fine adjustment:	Fine adjustment valve
Dimension:	appr. 150 x 300 x 215 mm
Weight:	appr. 2.55 kg

### Included in standard supply:

- Calibration test pump **LR-Cal LPP 60-T**
- Connection tube with female rotating pressure port
- Operating manual

### Optional accessories:

- Set of adapters and seals for unit under test
- Carrying case with custom foams
- Tool for a simple operation of the adjustment valve (**LPP-VOLUMEN-TOOL**)

### Recommended Reference Instruments:

• Accuracy ±0.025% FS:	Electronic Process Calibrator	<b>LPC 300</b>	datasheet "LPC 300"
• Accuracy ±0.050% FS:	Electronic Pressure Calibrator	<b>TLDMM-2.0</b>	datasheet "TLDMM 2.0"
• Accuracy ±0.1% FS:	Digital Test Pressure Gauge	<b>TLDMM-A01</b>	datasheet "LDM 80"
• Accuracy ±0.2% FS:	Digital Test Pressure Gauge	<b>TLDMM-A02</b>	datasheet "LDM 80"
• Accuracy ±0,125% BFSL	Digital Test Pressure Gauge	<b>LDM70-E25</b>	datasheet "LMD 70"
• Accuracy ±0,25% BFSL	Digital Test Pressure Gauge	<b>LDM70-K50</b>	datasheet "LDM 70"
• Accuracy ±0.6% FS	Analogue Pressure Gauge	<b>LPP-MANO-K06</b>	see reverse page
• Accuracy ±1.0% FS:	Analogue Pressure Gauge	<b>LPP-MANO</b>	see reverse page

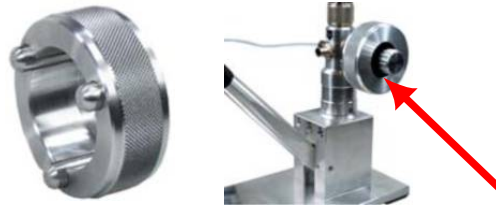
**LPP 60-T** Pressure Comparison Pump LPP 60-T  
Generating pressure -0,95...+60 bar (870 psi)

**LR-Cal**



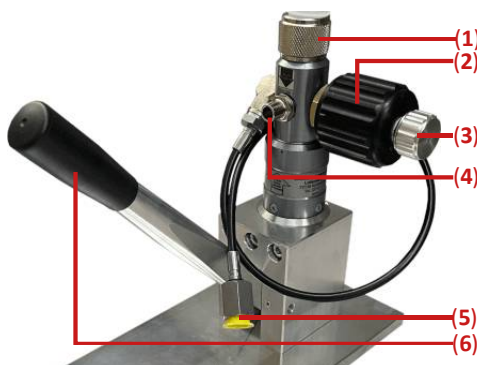
**Order-Codes:**

Description	Order Code
<b>LR-Cal LPP 60-T</b> Calibration Test Pump -0,95...+60 bar (-28 in Hg...+870 psi) NOTE: if you dismount the reference connector, you get 3/8" BSP female port	<b>LPP-60-T</b>
ditto, but reference port 1/4" BSP female rotating	<b>LPP-60-T-G14</b>
ditto, but reference port and test port 1/4" NPT female	<b>LPP-60-T-N14</b>
Set of <b>BSP adapters</b> and set of seals 1/8" BSP, 3/8" BSP and 1/2" BSP	<b>LPP-ADAPTER-BSP</b>
Set of <b>metric adapters</b> and set of seals M12x1,5 M20x1,5 and Minimes®	<b>LPP-ADAPTER-M</b>
Set of <b>NPT adapters</b> 1/8" NPT, 1/4" NPT, 3/8" NPT, 1/2" NPT	<b>LPP-ADAPTER-NPT</b>
Tool to simplify operation of the fine adjustment valve	<b>LPP-VOLUMEN-TOOL</b>
Carrying case with foams	<b>LPP-60-T-KOFFER</b>
<b>LPP-MANO-K06</b> analogue reference gauge DS 100 ±0.6% FS, all stainless steel, fine graduation dial. <b>Incl. certificate</b> Available ranges: 0...4 bar/PSI; 0...25 bar/PSI; 0...40 bar/PSI; -1...0 bar/inHg; -1...+39 bar/PSI	<b>LPP-MANO-....-K06</b>
<b>LPP-MANO</b> analogue reference gauges DS 63 ±1% FS, fine graduation dial. Available ranges: 0...2 bar/PSI; 0...11 bar/PSI; 0...25 bar/PSI; 0...40 bar/PSI; -1...0 bar/inHg; -1...+39 bar/PSI	<b>LPP-MANO-....</b>
<b>Spare part:</b> Test tube with 1/4" BSP female port	<b>LPP-SCHLAUCH-S-0050</b>
<b>Spare part:</b> Fine adjustment valve with relief valve	<b>LPP-VENTIL</b>
<b>Service Kit</b> for <b>LR-Cal LPP 60-T</b> (O-rings, seals, etc.)	<b>LPP-WARTUNG</b>



**NOTE:**

To mount the reference instruments **LR-Cal LPC 300**, **LR-Cal TLDMM 2.0**, **LR-Cal LDM 80**, **LR-Cal LDM 70** or **LPP-MANO** you do **not** need any adapter if you use the calibration handpump type **LR-Cal LPP 60-T**, order-code **LPP-60-T**.



- (1) pressure port for mounting reference pressure instrument
- (2) fine volume adjustment, for generating high pressure appr. 40...60 bar and fine pressure adjustment
- (3) pressure relief valve
- (4) Switch pressure generation / vacuum generation
- (5) pressure port for test item
- (6) pump to generate pressure up to appr. 40 bar