

**Pneumatic pressure comparison test pump**  
**Model LR-Cal LSP 100-P**

- **Pneumatic pressure and vacuum source for calibration and testing purposes**
- **Manual pneumatic pump using ambient air**
- **Generating pressure up to 100 bar, switchable to vacuum up to -0.95 bar**

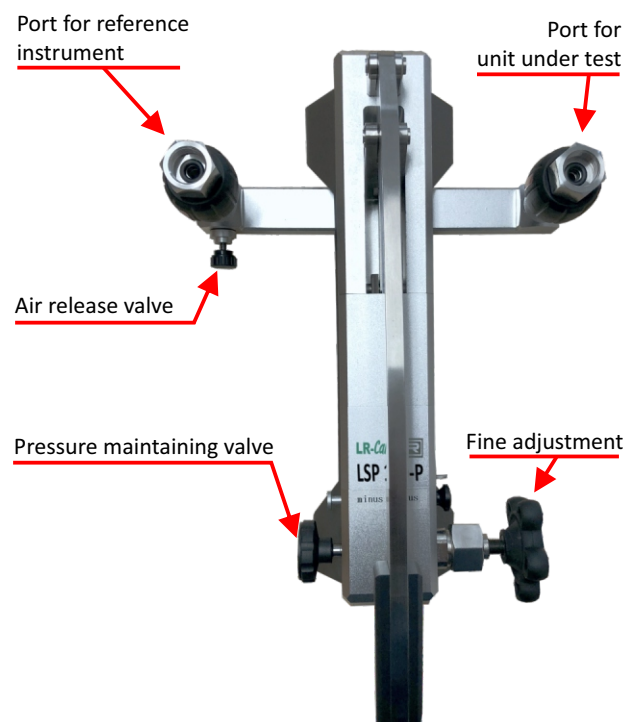
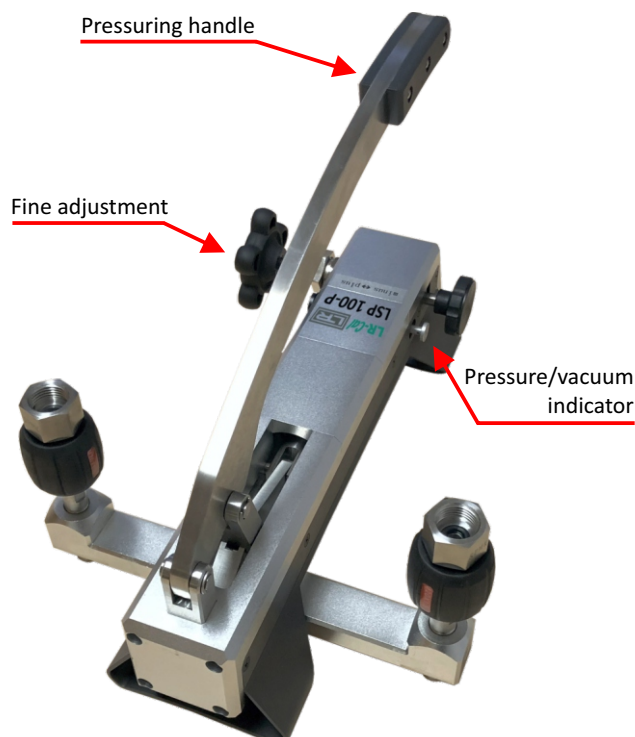
Pressure comparison test pumps are used for generating pressure and vacuum for the testing, adjusting and calibrating of mechanical and electronic pressure measuring instruments by means of comparison measurements. These pressure and vacuum tests can be carried out in laboratories, workshops or on site at the set measuring point.

When the device under test and a reference measuring instrument with an adequate accuracy are connected to the same 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 measure values at any pressure or vacuum value.



In order to enable an accurate generation of the measuring points, the pressure comparison pump **LR-Cal LSP 100-P** is provided with a fine adjustment valve.

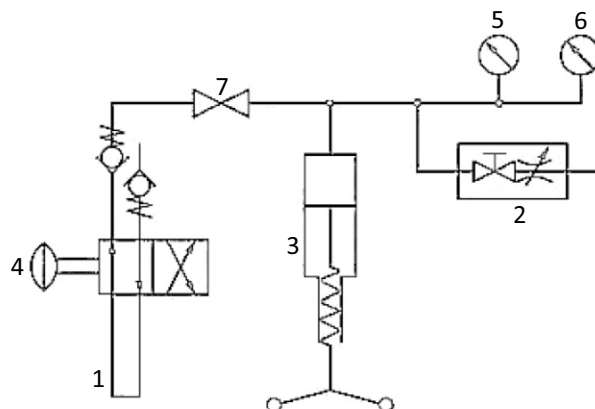
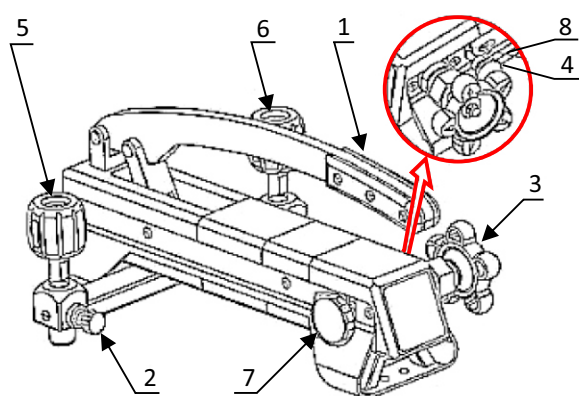
This manual pressure pump uses ambient air as medium. Easy to use, no external pressure or vacuum source needed.



### Technical data:

Making pressure:	up to +100 bar, switchable to
Making vacuum:	down to -0.95 bar
Medium:	Ambient air
Pressure ports:	2 ports with 1/2" BSP female rotating swivel nut, incl. o-rings (no tools required for mounting reference instrument and unit under test) Distance of both pressure ports: 220 mm
Fine adjustment:	Fine adjustment valve, sensitivity $\pm 0.1$ mbar
Dimensions:	450 x 262 x 170 mm
Net weight:	approx. 5.6 kg

**Scope of standard delivery:** 1 **LR-Cal/ LSP 100-P** pressure comparison pump  
2 threaded adapter M20x1.5 female x 1/2" BSP male with O-rings  
Set with spare O-rings, 2 blind plugs M20x1.5 for closing the pressure ports, operating manual.



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|--|---|
| (1) Pressuring handle                      | (2) Pressure release valve              |
| (3) Fine adjustment valve                  | (4) Switch pressure/vacuum              |
| (5) Pressure port for reference instrument | (6) Pressure port for device under test |
| (7) Pressure maintaining valve             | (8) Switcher safety pin                 |

### Optional accessories:

Order-Code <b>BLINDSTOPFEN-G12-VA</b>	Blind plug 1/2" BSP in stainless steel, PN 3600 bar
Order-Code <b>LSP-100-P-WARTUNG</b>	Maintenance Kit for <b>LR-Cal/ LSP 100-P</b> (gaskets etc.)
Order-Code <b>LSP-ADAPTER-SET</b>	Set of threaded adapters for pressure port 1/4" NPT, 1/2" NPT, 1/4" BSP and M20x1.5 female

### Spare part:

Order-Code **LSP-100-P-UMSCHALTER** pressure/vacuum switch as a spare part

### Reference pressure instruments:

**LR-Cal/ LDM 80, LR-Cal/ LPC 200, LR-Cal/ LPC 300, LR-Cal/ TLDMM 2.0, LR-Cal/ LDM 70, LR-Cal/ LHM**