

Pressure comparison test pumps, up to 400 or 800 bar for OXYGEN applications

LR-Cal BT400-OX: up to 400 bar

LR-Cal BT800-OX: up to 800 bar

- Test pressure source for calibration purposes in oxygen applications
- Operation with distilled water

Pressure comparison test pumps are used to generate pressure for checking, adjusting and calibrating mechanical and electronic pressure reading instruments by means of comparative measurements.

These pressure tests can be carried out stationary in the laboratory or workshop, or on site at the measuring point.

If the pressure measuring device to be tested and a sufficiently accurate reference pressure measuring device are connected to the pressure comparison test pump, the same pressure acts on both measuring devices when the pump is actuated. By comparing the two measured values at any pressure value, the accuracy or adjustment of the pressure gauge to be tested can be checked.

The LR-Cal BT400-OX and LR-Cal BT800-OX pressure comparison test pumps are designed for operation with distilled water and can be used with oil- and grease-free pressure gauges suitable for oxygen. The devices are equipped with a finely adjustable spindle wheel for precise positioning of the measuring points. The type LR-Cal BT800-OX has a shut-off needle valve for pre-pressurization.



LR-Cal BT800-OX



LR-Cal BT400-OX

Technical Data:

Type	LR-Cal BT400-OX	LR-Cal BT800-OX
Operation pressure:	up to 400 bar *)	up to 800 bar
Max. pressure:	max. 600 bar	max. 1,000 bar
Interception valve for priming pressure:	---	yes
Volume:	76 cm ³	30 cm ³
Volume change per spindle stroke:	approx. 2 cm ³	approx. 0.7 cm ³
Total screw stroke:	approx. 160 mm	approx. 160 mm
Needed force:	at 50 bar approx. 9.8 Nm	at 100 bar approx. 9.8 Nm
Zylinder material:	Stainless steel	Stainless steel
Piston material:	Brass with teflon ring **)	Stainless steel
Piston guide:	Acetate resin	
Dimensions:	450 x 360 x 300 mm	650 x 360 x 330 mm
Weight:	approx. 14 kg	approx. 18 kg

*) Possibility of use under vacuum as far as allowed by the suction volume.

**) Teflon anti-extrusion ring

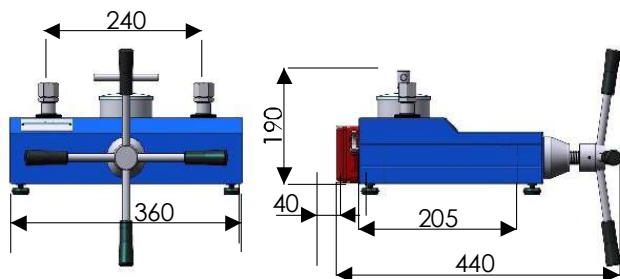
Pressure connections: 2 x 1/2" BSP female free-running with seal

BT400-OX Hydraulic pressure comparison test pump
BT800-OX Pressure up to 400/800 bar, for oxygen appl.

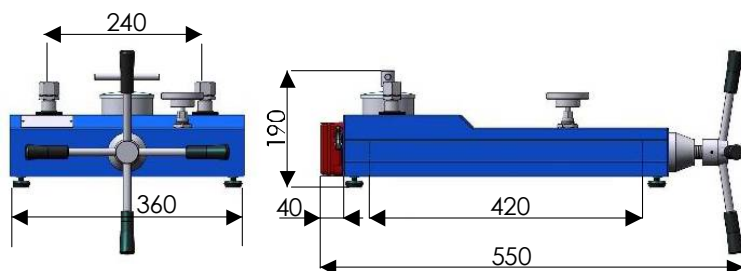
LR-Cal



Dimensions LR-Cal BT400-OX (in mm):



Dimensions LR-Cal BT800-OX (in mm):



Scope of standard delivery

- Hydraulic pressure comparison test pump LR-Cal BT400-OX or LR-Cal BT800-OX
- Open wrench Ch 27
- Set of spare gaskets
- Storage box for the supplied accessories (at rear side of the device)
- Operating manual (German/English)

Order-Code:

LR-Cal BT400-OX: BT400-OX

LR-Cal BT800-OX: BT800-OX

LR-Cal BT400-V *): BT400-V

*) NO oxygen version, but suitable for aggressive media (oil as operation fluid)



Rear view of the LR-Cal BT400-OX



Priming pressure shut-off valve of the LR-Cal BT800-OX