

HYDRAULIC COMPARISON CALIBRATION PUMPS



Operative range:

BT 400: 0 ÷ 400 bar (40 MPa)

BT 800: 0 ÷ 800 bar (80 MPa)

Applications:

*the testing and calibration of
manometers and transducers
combined with standard reference
instruments.*

ITEC MEASURE, S.L.

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BT 400-800

HYDRAULIC COMPARISON CALIBRATION PUMPS



The pumps of the BT series make it possible to generate hydraulic pressures up to 800 bar necessary for the comparison calibration of manometers, pressure switches and transducers with standard gauges.

Their sturdiness and compactness make them easy to use both in the work shop and in the field.

Their installation and maintenance have been simplified as much as possible so that they may be used immediately.

GENERAL CHARACTERISTICS COMMON TO BOTH MODELS

- Structure in 2mm thick metal sheets designed to simplify carrying.
- The pumps made be fitted onto a work bench by means of their 4 adjustable feet or they may be attached to a surface by means of the holes on the base.
- High pressure unit made in one piece with a brass rod.
- Bronze trapezoidal screws and nut screws with stainless steel bearing.
- Triple-spoke hand-wheel tilted towards operator.
- Sockets for 1/2" Gas manometers with rotating screw nut and OR seal.
- Stainless steel built-in tank with hand-wheel operated head valve.
- Hydraulic liquid used: water and oil.

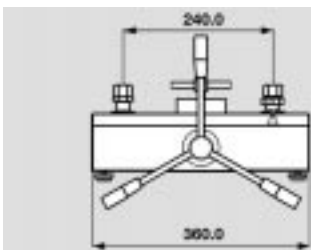


BT 400 TECHNICAL CHARACTERISTICS

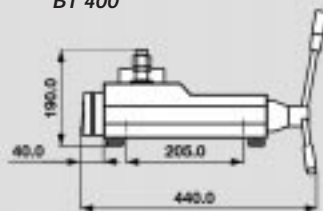
- Range of use from 0 to 400 bar (40 MPa)
- It may be used in depression within the limits established by the suction volume.
- Total capacity: 76 cm³
- Displacement/turn = 2 cm³ ~
- High resistance stainless steel cylinder.
- Bronze piston with Buna gaskets, Teflon anti-extrusion ring and guide in acetate resin.
- Total screw stroke: 160 mm
- Operative stress at 50 bar: 1 Kgm
- Test pressure: 600 bar
- Measurements: 450x360x300 mm
- Weight: 14 Kg

BT 800 TECHNICAL CHARACTERISTICS

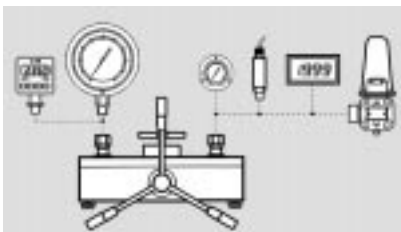
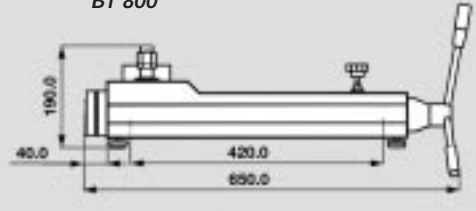
- Range of use from 0 to 800 bar (80 Mpa)
- Interception needle valve used to pre-load the circuit
- Total capacity: 30 cm³
- Displacement/turn = 0,7 cm³ ~
- Piston with plunger stem and high pressure unit made in stainless steel
- Total screw stroke: 160 mm
- Operative stress at 100 bar: approx. 1 Kgm
- Test pressure: 1000 bar
- Gaskets in nitril rubber with anti-extrusion ring
- Measurements: 650x360x330 mm
- Weight 18 Kg



BT 400



BT 800



SPECIAL MODELS

- **BT 400-OX** : suitable for oxigen pressure gauges.
- **BT 400-V** : special Viton gaskets suitable for chemical argents.
- **BT 400+** : special gaskets for use up to 600 bar

STANDARD PARTS SUPPLIED

- Ch 27 service box wrench
- 3/8" Gas rotating connection.
- Complete series of spare gaskets
- Case for carrying spare parts.

OPTIONAL

- NF/C: precision pressure gauges up to 1000 bar, accuracy: ±0,25% with S.I.T. traceability.
- DMM-LAB: digital pressure gauges up to 1000 bar, accuracy: ±0,05% with S.I.T. certificate.
- Fine volume adjuster for high senitivity (0,01 bar @ 400 bar).



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