

Pressure Test Pump ICP 10, pneumatic operated Generating pressure up to +10 bar (145 psi), switchable to generating vacuum down to -0.85 bar (-25 inHg)

The pressure test pump ICP 10 is used to generate pressure and vacuum for checking, adjusting and calibrating mechanical and electronic pressure measuring instruments by comparative measurements in the low-pressure and vacuum range. These pressure tests may be carried out in laboratories, workshops or on site at the measuring point.

If the instrument to be tested and a sufficiently accurate reference measuring instrument are connected up to the pressure test pump, the same pressure is applied to the two measuring instruments when the pump is operated. By comparing the two measure values at random pressure values, the accuracy can be verified or the unit under test can be adjusted.

The ICP 10 is a pneumatic pressure test pump for low-pressure ranges up to 10 bar with change-over switch to vacuum down to -850 mbar. Despite its compact dimensions, the pressure test pump is easy to operate and allows for exact generation of the required test pressures. The maximum pressure or vacuum achievable depends on the attached test volume. The smooth-running pressure generation and the integrated fine adjustment valve allow a safe and precise setting of very small positive resp. negative pressure values in the range of mbar. The unit under test and the reference instrument can be easily connected with the supplied accessories (T-piece and two pieces of pressure hose with threaded adapters).



Specification:

Pressure:	0 to 10 bar = 0 to 145 psi, switchable to
Vacuum:	0 to -0.85 bar = 0 to -25 inHg
Pressure ports:	T-piece to be mounted to the pump, with 1 x hose 0.5 m with pluggable port 1/2" BSP female for reference instrument and 1 x hose 0.5 m with pluggable port 1/4" BSP female for test item. Optional sets of threaded adapters available. Ambient air
Medium:	
Pressure fine adjustment:	Pressure adjustment valve (very sensitive volume variator)
Volume per stroke:	approx. 0.038 cm ³
Dimensions:	approx. L 173 mm x W 100 mm x D 58 mm (without T-piece, hoses, adapters)
Weight:	approx. 697 g (without T-piece, hoses, adapters)

Included in scope of standard delivery:

- Pressure test pump ICP 10
- T-piece for direct mounting to the pump, with 2 „Push&Pull“ hose connectors
- 1 x pneum. hose 0.5 m. One side to be plugged to the T-piece, other side with thread 1/2" BSP female, to connect reference pressure instrument/calibrator
- 1 x pneum. hose 0.5 m. One side to be plugged to the T-piece, other side with thread 1/4" BSP female, to connect item under test (optional sets of threaded adapters available)
- Operating manual

Optional accessories:

- Several sets of threaded adapters for connecting items under test
- Carrying- and storage case
- Reference pressure instruments, digital gauges, pressure calibrators, with different functionalities and pressure ranges.

Order-Code	Description / Included in standard delivery ICP10
ICP-10	Pressure Test Pump ICP 10 (-0,85...+10 bar) incl. T-piece, 2 hoses 4 x 2.5 mm, length each 0.5 m 1 Adapter (brass, chromium plated) to 1/2" BSP female and 1 Adapter (brass, chromium plated) to 1/4" BSP female, as well as necessary connectors and operating manual.
ICP-10-PUMPE	Pressure Test Pump ICP 10 (-0,85...+10 bar): OEM version WITHOUT any accessories, just the pump.
Accessories and Spare parts	
ICP-KOFFER	Transport and storage case for ICP 10 with foams, with space for accessories and a reference pressure instrument
ICP-10-T-STUECK	SPARE PART: T-piece for mounting on ICP 10, with 2 hose connectors (Push&Pull) for hose 4 x 2.5 mm
ICP-10-PN-STECK	SPARE PART: Hose connector (Push & Pull) for hose 4 x 2.5 mm, 1/8" BSP male
ICP-10-ADAPT-G12	SPARE PART: Adapter (brass, chromium plated) 1/8" BSP female x 1/2" BSP female (for reference)
ICP-10-ADAPT-G14	SPARE PART: Adapter (brass, chromium plated) 1/8" BSP female x 1/4" BSP female (for test item)
ICP-10-SCHLAUCH-0050	SPARE PART: pneumatic hose 4 x 2.5 mm, length 0.5 m
SCHLAUCH-025ID-04AD	Pneumatic hose 4 x 2.5 mm, per meter
ICP-ADAPTER-BSP	Set of BSP adapters and set of spare o-rings, for test item port: 1/4" BSP male x 1/8" BSP female + 3/8" BSP female + 1/2" BSP female + 1/2" BSP male
ICP-ADAPTER-NPT	Set of NPT adapters, for test item port: 1/4" BSP x 1/8" NPT female + 1/4" NPT female + 3/8" NPT female + 1/2" NPT female
ICP-ADAPTER-M	Set of metric adapters and set of spare o-rings, for test item port: 1/4" BSP male x M12x1.5 female + M20x1.5 female + MINIMESS1620
Reference pressure instruments / Pressure calibrators	
CPG1500	Pressure ranges up to 0 ... 10,000 bar (0 ... 150,000 psi), vacuum and absolute pressure ranges also available, accuracy up to 0.025% including calibration certificate, 4½ to 5-digit backlit display with bar graph indication, freely selectable pressure units, intrinsically safe ATEX version available
CPG1200	Pressure range: -1 ... +1,000 bar, 4½-digit display, accuracy up to 0.25% FS / 0.5% FS, protection rating IP65, backlit display, integrated data logger, freely selectable units and measurement rate, easier than ever to check and adjust operating pressures.
Typ 312.20	Knife-edge pointer for optimum reading accuracy, precision movement with moving parts made of nickel silver, indication ranges from 0 ... 0.6 to 0 ... 600 bar [0 ... 10 psi to 0 ... 10,000 psi].
DPI705E	41 pressure ranges from ±25 mbar to 1,400 bar (±10 inH ₂ O to 20,000 psi / 2.5 kPa to 140 MPa), total uncertainty over one year of up to 0.025% of full scale (FS) over a temperature range of -10 °C to +50 °C.



Dimensions mm:

