

Calibration Pressure Pumps

Model CPP30

Pneumatic -13.75 psi vacuum to +500 psi

Model CPP700-H

Hydraulic 0 to 10,000 psi

Applications

- Simple portable pressure generation for testing in laboratories, workshops or on-site
- For testing, adjustment and calibration of all types of pressure measuring instruments
- Pneumatic pressure generation from -13.5 psi vacuum up to positive 500 psi pressure (-950 mbar up to +35 bar) using the CPP30
- Hydraulic pressure generation up to 10,000 psi (700 bar) using the CPP700-H

Special Features

- Ergonomic handling
- Precise setting of pressure via a fine adjustment valve
- Compact size
- Low weight

Description

Areas of application

Test pumps are used to generate pressure for the testing, adjusting and calibrating mechanical and electronic pressure measuring instruments by means of comparative measurements. These pressure tests can be carried out in laboratories, workshops or on-site at the measuring point.

Ease of operation

When the device under test and a suitably accurate reference measuring instrument such as the 3D Series 25 Test Gauge or the 3D Accu-Cal Plus Digital Test Gauge are connected to the test pump, after actuating the pump, the same pressure will act on both measuring instruments. Calibration or adjustment of the device under test can be carried out by comparing the two measured values at any pressure value. In order to enable the accurate generation of the measuring points, both test pumps are fitted with a fine adjustment valve.

Easy handling

Despite their very compact sizes, the two handpumps enable simple and accurate test pressure generation. Using the CPP30 a maximum of 500 psi (35 bar) pneumatic pressure can be generated. With a press of a change-over switch, Vacuum generation down to -13.75 psi (-950 mbar) is also possible using the same unit. The CPP700-H can generate a maximum pressure of 10,000 psi (700 bar) using distilled water or clean hydraulic oil. The maximum pressure or vacuum achievable depends on the attached test volume. Each pump also has a fine adjustment valve to enable the precise setting of the pressure. The reference instrument is fitted directly to the top of each pump, and the device under test is connected via a connection tube (length 0.5 M or 1 M depending on model) with 1/4" NPT female thread, included with the hand pumps. The reference instrument is not included in the basic models but can be ordered by referring to the appropriate 3D Product Literature.

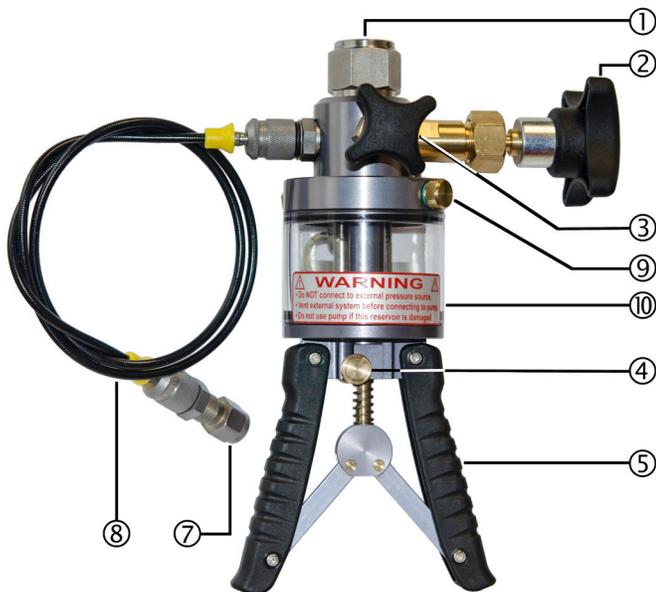


Vacuum and Pneumatic Calibration Pressure Pump Model CPP30

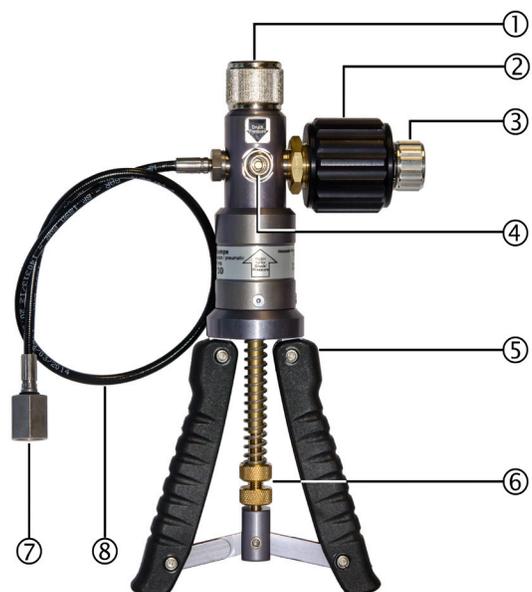


Hydraulic Calibration Pressure Pump Model CPP700-H

1. Pressure connector for reference instrument G 1/2" female, freely rotating with 1/4" NPT reducing adapter (both models)
2. Fine adjustment valve (both models)
3. Pressure relief valve (both models)
4. Change-over pressure/vacuum (CPP30) or pressure/bleed (CPP700-H)
5. Ergonomic Handles (both models)
6. Adjustable knurled nut for the adjustment of the delivery rate of the pump provides overpressure protection (CPP30 only)
7. Pressure connection for test specimen, 1/4" NPT female adapter, freely rotating (both models)
8. Flexible tube for test item connection, length 0.5 M (CPP30) or 1 M (CPP700-H)
9. Fill Plug for Fluid Reservoir (CPP700H)
10. Fluid Reservoir: Distilled Water Recommended (CPP700-H)



Hydraulic Calibration Pressure Pump Model CPP700-H



Vacuum and Pneumatic Calibration Pressure Pump Model CPP30

Specification	CPP700-H	CPP30
Pressure range	0 to 10,000 psi	-13.75 psi vacuum to +500 psi
Medium	Distilled Water or Clean Hydraulic Oil	Air
Gauge Connection	G 1/2" female freely rotating with 1/4" NPT Adapter	G 1/2" female freely rotating with 1/4" NPT Adapter
Process Connection	40" Hose (1 M) 1/4" NPT female Adapter	20" Hose (.5 M) 1/4" NPT female Adapter
Pressure Adjustment	Vernier Adjustment	Vernier Adjustment plus Handle Stroke Adjustment via Knurled Knob
Materials	Brass, anodised aluminium, SSTL heavy-duty plastic	Brass, chromium-plated anodised aluminium, heavy-duty plastic
Dimensions inches (mm)	11.02" (280) X 6.70" (170) X 4.72" (120)	8.66" (220) X 4.13" (105) X 2.48" (63)
Mass	4.19 lbs (1.9 kg)	1.64 lbs (0.51 kg)
P/N to Order:	14124909	14124906

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