

Hand Test Pumps Hydraulic Model CPP700-H and CPP1000-H

WIKA Data Sheet CT 91.07

Applications

- Simple pressure generation for on site, laboratories or workshops
- For testing, adjusting and calibrating all types of pressure measuring instruments
- Hydraulic pressure generation up to 700 bar resp. 1,000 bar

Special Features

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



Hand Test Pump Model CPP1000-H

Description

Areas of application

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

The hand test pumps CPP700-H and CPP1000-H were developed especially for generating test pressures on site.

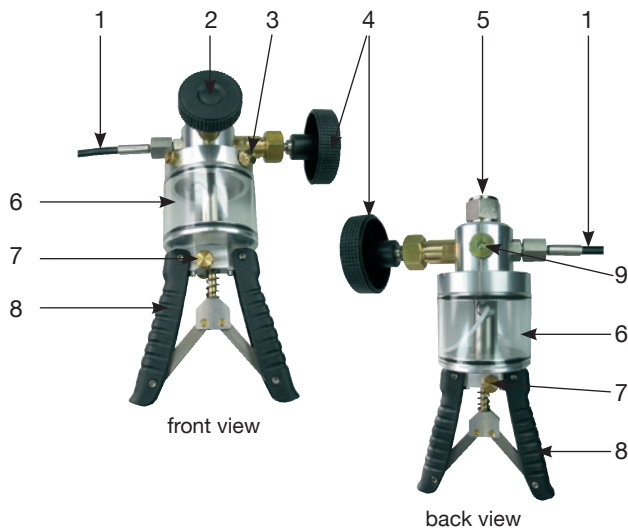
Easy functioning

When the device under test and a reference measuring instrument with an adequate accuracy are connected to the test pump, the same pressure will act on both measuring instruments after actuating the pump. A calibration or an adjustment of the device under test can be carried out by comparing the two measured values at any pressure value.

Easy handling

Despite its very compact size the CPP700-H and CPP1000-H hand test pumps enable simple and accurate test pressure generation up to a max. 700 bar respectively 1000 bar with integrated change-over switch for priming or high pressure generation. The pump also has a fine adjustment valve to enable the precise setting of the pressure. As pressure transmitting medium hydraulic oil or clean water, free of calcium-carbonate / scale can be used.

The reference instrument is fitted directly to the top of the pump, and the device under test is connected via a connection tube with G 1/4" female thread, included in the test kit. The CPP700-H is shipped including a Minimesse® 1620 test hose as a standard.



- 1) Test hose
 CPP700-H: Minimesse[®] with coupling to G 1/4" female thread
 CPP1000-H: G 1/4" female thread
- 2) Pressure relief valve
- 3) Filling plug of liquid reservoir
- 4) Fine adjustment valve (volume adjustment)
- 5) Pressure port for reference G 1/2" female, rotating
- 6) Liquid reservoir
- 7) Priming / high pressure switching knob
- 8) Pump handles
- 9) Blind plug - **do not open!**

Specifications		Model CPP700-H	Model CPP1000-H
Pressure range	bar psi	0 ... 700 0 ... 10,000	0 ... 1,000 0 ... 14,500
Medium		Mineral oil based hydraulic fluid / clean water, free of calcium-carbonate / scale ¹⁾	Mineral oil based hydraulic fluid / clean water, free of calcium-carbonate / scale ¹⁾
Pressure connections			
■ For reference instrument		G 1/2" female thread, rotating. This rotating nipple can be dismounted, then you get a G 3/8" female (fix) port.	G 1/2" female thread, rotating. This rotating nipple can be dismounted, then you get a G 3/8" female (fix) port.
■ For test specimen		G 1/4" female thread at the test hose, length 1 meter, system Minimesse [®] 1620	G 1/4" female thread, rotating at the high pressure test hose, length 1 meter
Fine adjustment		Fine adjustment valve / volume variator	Fine adjustment valve / volume variator
Liquid reservoir	cm ³	200	200
Material		anodized aluminum, brass, stainless steel, plastic	anodized aluminum, brass, stainless steel, plastic
Sealing gaskets		FKM and NBR (standard) optional EPDM	FKM and NBR (standard) optional EPDM
Dimensions (L x W x H)	mm	280 x 170 x 120	280 x 170 x 120
Weight	kg	1.9	1.9
Standard accessories		test hose Minimesse [®] , length 1 meter	high pressure test hose, length 1 meter

1) Other pressure transmitting media on request.

Order data hand test pump	Order No.
Hand test pump CPP700-H, medium oil / clean water, free of calcium-carbonate / scale incl. test hose Minimess®, length 1 m, and coupling G ¼" BSP female	13001981
Hand test pump CPP1000-H, medium oil / clean water, free of calcium-carbonate / scale incl. high pressure test hose, length 1 m, with G ¼" BSP female thread, rotating	13001990
Hand test pump CPP1000-H, Skydrol version incl. high pressure test hose, length 1 m, with G ¼" BSP female thread, rotating	13002007

Order data accessories	Order No.
Plastic case with foams for CPP700-H or CPP1000-H dimensions in mm: (W/H/T) 440 x 370 x 140	13001965
Set of adapters and set of seals „BSP“ for test item connection G ¼" male on G ⅛", G ⅜" and G ½" female	12139689
Set of adapters and set of seals „metric“ for test item connection G ¼" male on M 12 x 1,5, M 20 x 1,5 and Minimess®	12140422
Set of adapters and set of seals „NPT“ for test item connection G ¼" male on ⅛" NPT, ¼" NPT, ⅜" NPT and ½" NPT female	12139701
Connection adapter G ¼" male on G ½" female, material: stainless steel	0168483
Operating fluid for CPP1000 and CPP1600 test pump series in plastic bottle, content 1 litre	2099882
Service kit of sealing gaskets and O-rings for hand test pump CPP700-H and CPP1000-H	13001442
Replacement hose for CPP700-H, length 1 m	13001434
Replacement hose for CPP1000-H, length 1 m	13001400

Recommended reference instruments:

■ Precision Digital Pressure Gauge Model CPG1000

Measuring range: up to 700 bar
Accuracy: 0.05 % of span
Specifications according data sheet CT 10.01



■ Hand-Held Pressure Indicator Model CPH6200

Measuring range: up to 1,000 bar
Accuracy: 0.2 % of span
Specifications according data sheet CT 11.01



■ Hand-Held Pressure Indicator Model CPH6400

Measuring range: up to 4,000 bar
Accuracy: 0.025 % of span or
0.1 % of reading
Specifications according data sheet CT 14.01



■ ProzessCalibrator Model CPH6000

Measuring range: up to 1,000 bar
Accuracy: 0.025 % of span
Specifications according data sheet CT 15.01



Calibration software

- Calibration software EasyCal for inspection equipment monitoring incl. generation of calibration reports and archiving of calibration data
Specifications according data sheet CT 95.01



Test and calibration service sets

consisting of:

- Transport case made of plastic with foam inlet
- Precision Digital Pressure Gauge Model CPG 1000
- Hand test pump Model CPP700-H



Products and Services within our Calibration Technology Program

- DKD calibration services for pressure
- Repair of all makes of calibration units
- Portable pressure measuring devices for test and calibration tasks
- Precision pressure measuring units and pressure controllers
- Primary standards for pressure
- Testing technology system solutions
- DKD calibration services for temperature
- Temperature dry-well calibrators
- Calibration baths and furnaces
- Temperature measuring instruments for test and calibrating tasks
- Precision thermometers
- Primary standards for temperature
- Consulting and seminars

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.



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