

# Hydraulic hand test pump

## Models CPP700-H and CPP1000-H

WIKA data sheet CT 91.07

### Applications

- Simple test pressure generation on-site, in the laboratory or in the workshop
- For the testing, adjustment and calibration of all types of pressure measuring instruments
- Hydraulic pressure generation up to 700 bar or 1,000 bar

### Special features

- Ergonomic handling
- Precise setting through the fine-adjustment valve
- Compact dimensions
- Low weight



Hand test pump model CPP1000-H

### Description

#### Application areas

Test pumps serve as pressure generators for the testing, adjustment and calibration of mechanical and electronic pressure measuring instruments through comparative measurements. These pressure tests can be carried out statically in the laboratory or workshop, or on-site at the measuring point. The model CPP700-H and CPP1000-H hand test pumps have been developed specifically for on-site pressure generation.

#### Easy operation

If one connects the test item and a sufficiently-accurate reference pressure measuring instruments to the test pump, on actuating the pump, the same pressure will act on both measuring instruments. By comparison of the two measured values at any given pressure value, a check of the accuracy and/or adjustment of the pressure measuring instrument under test can be carried out.

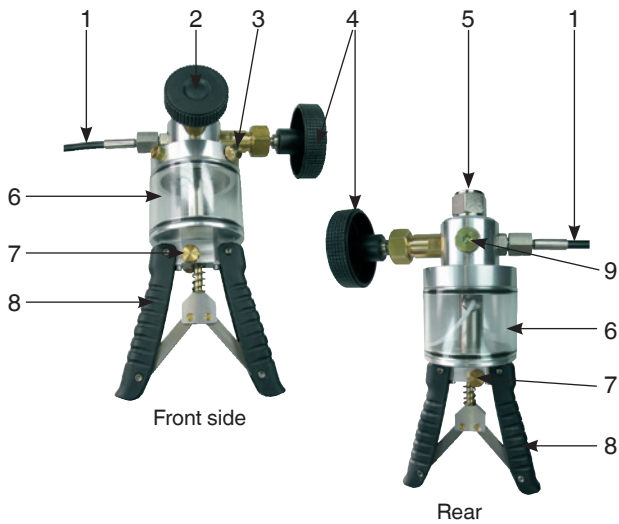
#### Easy handling

The CPP700-H and CPP1000-H hand test pumps, despite their very compact dimensions, enable simple and accurate pressure generation of up to a max. of 700 bar or 1,000 bar (respectively), with an integrated switching from system pressure to high-pressure generation.

For the precise setting for accurate comparative testing, the pump features a fine-adjustment valve.

As a pressure-transmission medium, either hydraulic oil or clean water, free of calcium-carbonate should be used.

The reference instrument is screwed directly to the top of the pump, and the test item is connected using a connecting hose with a G ¼ female thread, included in delivery. The CPP700-H is supplied, as standard, with a Minimess® 1620, test item connecting system.



- 1) Test item connection hose  
 CPP700-H: Minimesse<sup>®</sup> System with a G ¼ female pressure gauge connector  
 CPP1000-H: G ¼ female
- 2) Pressure relief valve
- 3) Threaded sealing plug for fluid reservoir
- 4) Fine-adjustment valve (volume adjustment)
- 5) Reference instrument connection G ½ female, free-running
- 6) Fluid reservoir
- 7) Toggle control, system and high-pressure generation
- 8) Pump handles
- 9) Blind plug, **do not open!**

Specifications	Model CPP700-H	Model CPP1000-H
Pressure range	0 ... 700 bar 0 ... 10,000 psi	0 ... 1,000 bar 0 ... 14,500 psi
Medium	Hydraulic fluid from mineral oil / clean water, free of calcium-carbonate <sup>1)</sup>	Hydraulic fluid from mineral oil / clean water, free of calcium-carbonate <sup>1)</sup>
<b>Pressure connections</b>		
■ For reference measuring instruments	G ½ female thread, free-running. The connection can be disconnected using an Allen key. Then a G ¾ female thread is available.	G ½ female thread, free-running. The connection can be disconnected using an Allen key. Then a G ¾ female thread is available.
■ For test item	G ¼ female at the test item connection hose, length 1 m, Minimesse <sup>®</sup> 1620 system	G ¼ female thread, free-running at the test item connection hose, length 1 m
Fine-adjustment	Fine-adjustment valve / volume adjustment	Fine-adjustment valve / volume adjustment
Fluid reservoir	200 cm <sup>3</sup>	200 cm <sup>3</sup>
Material	anodised aluminium, brass, stainless steel, ABS	anodised aluminium, brass, stainless steel, ABS
Sealings	FKM and NBR (standard) optional EPDM	FKM and NBR (standard) optional EPDM
Dimensions in mm (L x W x H)	280 x 170 x 120	280 x 170 x 120
Weight	1.9 kg	1.9 kg
Standard accessories	Minimesse <sup>®</sup> test item connection hose, length 1 m	High-pressure test item connection hose, length 1 m

1) Other pressure transmission media available on request.

Hand test pump ordering information	Order no.
CPP700-H hand test pump, medium oil / clean water, free of calcium-carbonate incl. Minimess® test item hose, length 1 m, G ¼ female connector	13001981
CPP1000-H hand test pump, medium oil / clean water, free of calcium-carbonate incl. high-pressure test item hose, length 1 m, G ¼ female connector	13001990

Accessories order information	Order no.
Plastic case, incl. foam insert with free spaces for CPP700-H or CPP1000-H, Dimensions in mm: (W/H/D) 440 x 370 x 140	13001965
Adapter and sealing set "BSP" for test item hose, G ¼ male to G ⅛, G ⅜ and G ½ female	12139689
Adapter and sealing set "metric" for test item hose, G ¼ male to M 12 x 1.5, M 20 x 1.5 and Minimess®	12140422
Adapter and sealing set "NPT" for test item hose, G ¼ male to ⅜ NPT, ¼ NPT, ⅜ NPT and ½ NPT female	12139701
Connection adapter, G ¼ male to G ½ female, material: stainless steel	0168483
Special oil for CPP1000 and CPP1600 test pump series in plastic case, contents 1 litre	2099882
Sealing and maintenance set for CPP700-H and CPP1000-H	13001442
Spare hose for CPP700-H, length 1 m	13001434
Spare hose for CPP1000-H, length 1 m	13001400

## Recommended reference pressure measuring instruments:

### Precision digital pressure gauge model CPG1000

Measuring ranges: up to 700 bar  
 Accuracy: 0.05 % of span  
 For further specifications see data sheet CT 10.01



### Hand-held pressure indicator model CPH6200

Measuring ranges: up to 1,000 bar  
 Accuracy: 0.2 % of span  
 For further specifications see data sheet CT 11.01



### Precision hand-held pressure indicator model CPH6400

Measuring ranges: up to 4,000 bar  
 Accuracy: 0.025 % of span or  
 0.1 % of measured value  
 For further specifications see data sheet CT 14.01



## ProcessCalibrator model CPH6000

Measuring ranges: up to 1,000 bar

Accuracy: 0.025 % of span

For further specifications see data sheet CT 15.01



## Calibration software

### EasyCal calibration software

for test equipment monitoring, incl. certificate generation and data archiving

Specifications per data sheet CT 95.01



## Calibration case

### consisting of:

- Plastic service case with foam insert
- Precision digital pressure gauge, model CPG1000
- Model CPP700-H hydraulic hand test pump; 0 ... 700 bar



## Ordering information

To order the described product the given order number is sufficient. Other options require additional specification.

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