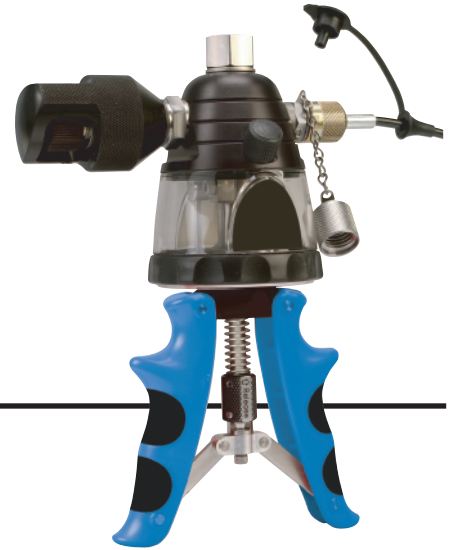


omega.com[®]

Ω OMEGA[®]

HPP-10K

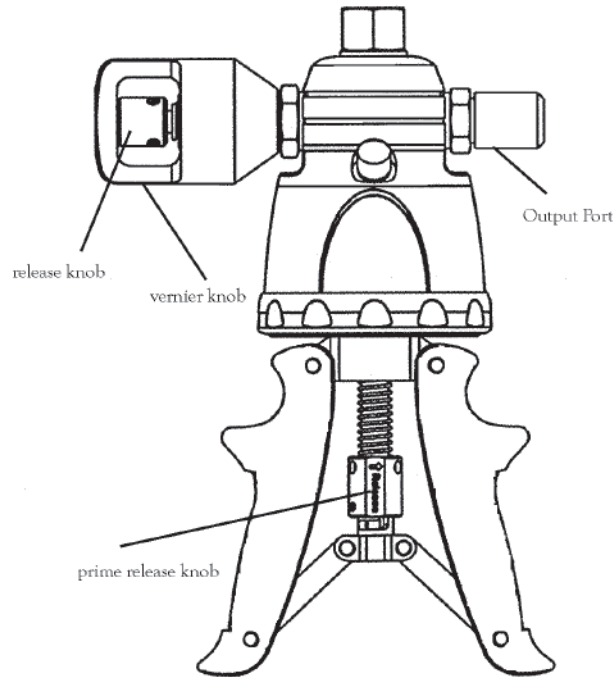
Hydraulic Calibration Hand Pump



INSTRUCTION
SHEET

M4674/0508

Shop online at: omega.com e-mail: info@omega.com
For latest product manuals: omegamanual.info



OMEGA's model HPP-10K hydraulic calibration hand pump utilizes a fully adjustable stroke control that allows for quick priming, easy pumping and fast pressure generation up to 10,000 psi (700 bar). The ergonomically engineered handles provide extra comfort, while the patented triple filtration system ensures pump operation in spite of dirty conditions. The shatterproof reservoir and stainless steel construction guarantee leak free operation. The pump has oversized check valves to provide smooth controlled operation.

SPECIFICATIONS

Output Ranges: 0 – 10000 psi (0 to 700 bar)

Gauge Connection: 3/8 BSP (1/4 NPT adapter included)

Process Connection: 1/4 BSP (1/4 NPT adapter included)

Materials: SS, Polyurethane, Anodized Hard-Coat Aluminum, PTFE, and nitrile

Weight: 3 lbs (1.36 kg)

GUIDELINES FOR USE:

- ⊙ Do not exceed 10,000 psi (700 bar) as this is the pumps maximum pressure.
- ⊙ Each pump includes a built in pressure release valve to limit the maximum pressure. This is factory pre-set to 10,000 psi.
- ⊙ The HPP-10K pump has 3/8 and 1/4 BSP ports. In order to use NPT fittings, the required NPT to BSP Parallel thread adapters need to be installed (Included BSP to 1/4 NPT Adapters).
- ⊙ Do not use of thread sealant paste or tape on the adapters. Bonded washers (included) are required to ensure proper seal. To seal the adapters, simply hand tighten and snug up with a wrench. Do not over-tighten.
- ⊙ Use with distilled water or mineral based hydraulic oil.

PUMP OPERATION

- 1) Remove the Fill Cap and fill reservoir to the recommended level with the appropriate fluid and replace plug.
- 2) Connect hose fittings and calibrators to adapters.
- 3) Connect master instrument to pump via the top port.
- 4) Connect instrument under test to flexible hose/gage adapter.
- 5) To prime the system, twist the knurled knob marked "release". Squeeze the handles together and release. Twist the knob once again. Repeat as necessary until system is fully primed and low pressure is indicated on either the master or test instrument. This feature can be changed at any pressure.
- 6) Operate handle several times to build pressure. Please note, once pressure starts to rise, pressure can increase very rapidly. Warning: Do not exceed maximum operating pressure indicated on the pump label.
- 7) Careful uses of the release valve and fine control enable a controlled release of pressure, essential for calibration purposes.
- 8) To adjust the pressure relief valve, release the pressure and turn the valve counter clockwise 1/16 turn and then proceed to re-pressurize. Repeat the process if further reduction is necessary.
- 9) RESERVOIR FLUID LEVEL: If the fluid level in the reservoir falls considerably during use, a partial vacuum can be created in the reservoir which may affect the pump performance. To avoid this, simply allow air to enter the reservoir by partly unscrewing the Fill Cap.
- 10) SEAL REPLACEMENT: Dependent on the frequency of use, the Main Piston Seal (and others) will need replacing. Call factory for replacement seal.

MAINTENANCE

No routine maintenance is required. A periodic check of system calibration is recommended. The pump is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.



OMEGAnet® On-Line Service
omega.com Internet e-mail
info@omega.com

Service North America:

U.S.A.:
ISO 9001 Certified One Omega Drive, Box 4047
Stamford, CT 06907-0047
Tel: (203) 359-1660
FAX: (203) 359-7700
e-mail: info@omega.com

Canada:
976 Bergar
Laval (Quebec) H7L 5A1, Canada
Tel: (514) 856-6928
FAX: (514) 856-6886
e-mail: info@omega.ca

For immediate technical or application assistance:

U.S.A. and Canada: Sales Service: 1-800-826-6342/1-800-TC-OMEGA®
Customer Service: 1-800-622-2378/1-800-622-BEST®
Engineering Service: 1-800-872-9436/1-800-USA-WHEN®
En Español: (001) 203-359-7803
FAX: (001) 203-359-7807
e-mail: espanol@omega.com
info@omega.com.mx

Czech Republic: Frystatska 184, 733 01 Karvina, Czech Republic
Tel: +420 (0)59 6311899
FAX: +420 (0)59 6311114
Toll Free: 0800-1-66342
e-mail: info@omegashop.cz

Germany/Austria: Daimlerstrasse 26, D-75392 Deckenpfronn, Germany
Tel: +49 (0)7056 9398-0
FAX: +49 (0)7056 9398-29
Toll Free in Germany: 0800 639 7678
e-mail: info@omega.de

United Kingdom: One Omega Drive, River Bend Technology Centre
ISO 9001 Certified Northbank, Irlam, Manchester
M44 5BD United Kingdom
Tel: +44 (0)161 777 6611
FAX: +44 (0)161 777 6622
Toll Free in United Kingdom: 0800-488-488
e-mail: sales@omega.co.uk

WARRANTY / DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by the company will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR WARRANTY RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR NON-WARRANTY REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

OMEGA is a registered trademark of OMEGA ENGINEERING, INC.

© Copyright 2008 OMEGA ENGINEERING, INC. All rights reserved. This document may not be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form, in whole or in part, without the prior written consent of OMEGA ENGINEERING, INC.

It is the policy of OMEGA Engineering, Inc. to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification. The information contained in this document is believed to be correct, but OMEGA Engineering, Inc. accepts no liability for any errors it contains, and reserves the right to alter specifications without notice. **WARNING:** These products are not designed for use in, and should not be used for, human applications.