CAUTION
1. PRESSURIZED DEVICES
   This equipment is a pressure containing device.
   - Do not exceed maximum operating pressure.
   - Make sure equipment is depressurized before working on or disassembling it for service.

2. ELECTRICAL
   This equipment requires electricity to operate.
   - Install equipment in compliance with national and local electrical codes.
   - Standard equipment is supplied with NEMA 4 electrical enclosures and is not intended for installation in hazardous environments.
   - DISCONNECT POWER SUPPLY TO EQUIPMENT WHEN PERFORMING ANY ELECTRICAL SERVICE WORK.

A. INSTALLATION
   a.1 Before mounting the valve it is essential to check that the solenoid valve model, the voltage (Volt) and the frequency (Hz) correspond to the characteristics required.

B. MECHANICAL PART
   b.1 Assembly of the solenoid valve must correspond with the flow directions indicated with an arrow on the valve body.
   b.2 If the valves are provided with caps for protecting the connections, make sure they are removed before assembly.
   b.3 Care should be taken to prevent foreign bodies from entering the valve during the assembly phase, e.g. material chips, dirt or particles of insulating material such as the PTFE tape from the "external thread" connections.
   b.4 Although the valve can be used in any position, the inverted position is not advised since possible impurities could become blocked inside the coil, the coil causing malfunctioning.
   b.5 When installing the valve make sure that the position and surrounding space are sufficient to allow for possible future maintenance or replacement of the coil.
   b.6 Never use a part of the core tube or the coil itself as a lever during the tightening phase: this could cause irreparable damage to the valve.
   b.7 In those installations where impurities, slag or deposits of various types may infiltrate the fluid, it is advisable to mount a filter upstream the valve.
   b.8 In case of solenoid valves with holes drilled for supports, use must be made exclusively of these without modifying the holes or anything else on the valve body.
   b.9 For solenoid valves with connections to be welded, please refer to paragraph d.4.

C. ELECTRICAL CONNECTIONS
   c.1 Before connecting the coil to the supply system, make sure that the characteristics conform to the supply voltage.
   c.2 Each coil features two terminals located opposite each other and a ground terminal. The terminals opposite each other are used for energizing the coil and are not polarized. If a plug-in connector is provided the terminals on the connector are marked 1 and 2.
   c.3 Where applicable the ground terminal must be connected.
   c.4 The coil should not be energized before being installed on the valve since this could cause it to burn out.
   c.5 Rotate the coil to the most suitable position, loosening and subsequently tightening the upper nut.
   c.6 If the valve body should be subject to condensation or defrosting it is advisable to add a moistureproof O-Ring as illustrated in our catalogue.

D. WORKING TEMPERATURE
   d.1 It is normal for the coil temperature to increase during operation; irregular overheating will cause smoke and a smell of burning. In this case the supply must be immediately isolated.
   d.2 Care should be taken not to install the valve near to sources of heat or in environments where there could be a dissipation of the heat produced by the coil.
   d.3 For special conditions, e.g. high temperatures or particular safety regulations, please consult our catalogue or our Technical Office.
   d.4 Particular attention should be paid to the temperatures when installing valves with connections welded.
   d.5 When carrying out welding between the valve connection and the pipe of the system, it is necessary to dismantle the coil and check that the temperature of the valve body does not exceed values of 100 - 150°C (200 - 300°F). The flame should be regulated so that it does not come into contact with the valve. The body of the latter should be cooled by wrapping it in wet cloth. Should it be impossible to carry out these precautions, we suggest dismantling the parts inside the valve.

E. MAINTENANCE
   e.1 After disconnecting the supply voltage and discharging the pressure, carry out inspection of the valve.
   e.2 Clean and inspect all the internal parts and replace them if necessary.
   e.3 Remount all the parts making up the solenoid valve with care, paying great attention to the correct position of each part and protecting the sealing surfaces.
   e.4 Check for tightness and correct operation.
It is the policy of OMEGA Engineering, Inc. to comply with all worldwide safety and Emission 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 accepts no liability for any errors it contains, and reserves the right to correct specifications without notice.

WARNING: These products are not designed for use in, and should not be used for, human applications.

OEME 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 action of the purchaser, including but not limited to mishandling, improper installation, 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; current, heat, moisture or vibration; improper specifications; 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 trace.

OMEKA 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. In addition, the warranty will be void if OMEGA and hold OMEGA harmless from any liability or damage whatever arising out of the use of the Products in such a manner.

RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department: BEFORE RETURNING ANY PRODUCTS 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 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.

OMEKA’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.

OMEKA is a registered trademark of OMEGA ENGINEERING, INC.

© Copyright 2020 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.