

under this warranty will not extend the original warranty period.

CERTIFICATIONS

NSF standard 169 listed pumps (PA, MA and CA series).

NSF 169 listed pumps that meet the requirements of the low lead American law AB 1953 (PB, MB and CB).

WRAS certified pumps (PW, MW and CW).

The product complies with the following Directives:

- Directive 94/9/EC of the European Parliament and of the Council, of 23rd March 1994, related to equipments and protection devices intended to be used in potentially explosive environments - ATEX.
- D.M. 174/04 of the Health Ministry, of 6th April 2004, on materials and devices that may be used in fixed catching, treatment, adduction and distribution installations of waters destined for human use.
- EC Regulation n.1935/2004 of the European Parliament and the Council of 27th October 2004 on materials and articles intended to come into contact with food products and for which there are

migration tests with photo A as required by DM n.338 of 22nd July 1998 Encl.1 Chapter 1.

Groups equipped with motors satisfy the requirements of the following Directives for the member states' legislations approaching:

- Directive 2004/108/EC of the European Parliament and of the Council, of 15th Dec 2004, related to the Electromagnetic Compatibility – EMC.
- Directive 2006/95/EC of the European Parliament and of the Council, of 12th Dec 2006, related to the electric material intended to be used within specified voltage limits – DBT.
- Directive 94/9/EC of the European Parliament and of the Council, of 23rd March 1994, related to equipments and protection devices intended to be used in potentially explosive environments - ATEX.
- Directive 2011/65/EU of the European Parliament and of the Council, of 08th June 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment – RoHS.

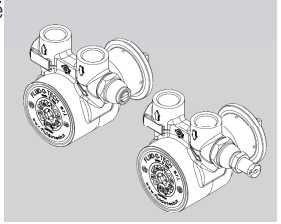


INSTRUCTION MANUAL

DIRECT DRIVE ROTARY VANE PUMPS MO/CO 30-200, PO 70-400 AND PO 500-1000 SERIES



Find out more



INSTALLATION

The pump has to be installed exclusively by authorized staff. Handle with care.

WARNING

For food applications the pumps (even when NSF listed or WRAS approved) need to be sanitized by circulating water at 80 °C (176 F) for at least 20 minutes. The water used for this operation must not be reused, either during the sterilization or later.

It is recommended not pulling out the two protection sponge caps placed on the inlet and outlet of the pump before mounting the fittings and connecting the pipes, to avoid the incidental entrance of any solid extraneous object which might damage the internal components of the pump. The Fluid-o-Tech PO, MO and CO rotary vane pumps look identical in their shape, within each range, although the flow rates are different.

For this reason, in case of replacement, you should make sure that the flow rate of the new pump is the same of the previous pump you had.

Changing the pump with a model of different capacity may damage the system, the motor and the pump itself. The "CO" series pumps are not equipped with weep holes, therefore the normal condensation may not evaporate. In this case it is necessary coupling the pump to a motor with 4 holes at 90° in the coupling area.

If continuous operation is needed, the unit has to be mounted in an airy space in order to dissipate the heat produced by the motor.

The pump must be mounted horizontally.

To avoid noise and vibrations of mechanical parts, it's advisable to mount the motor on rubber shock-absorbing supports.

The use of the dumper coupling kit for 48YZ frame motors (92-80-04) is suggested in order to grant a proper alignment between the pump and the motor.

MOUNTING THE PUMP ONTO THE MOTOR

a) Motor with clamp mounting (type 48YZ)

- Make sure the motor is unplugged from the electric line
- Insert the clamp on the pump (shaft side)
- Couple the pump to the motor by inserting the pump shaft into the motor shaft and pushing it till it stops
- Turn the pump to the desired position
- Position the clamp in order to surmount the pump and the motor rings
- Tighten the clamp screw using 1-1.5Nm torque maximum
- Make sure that the clamp screw is tight enough to prevent the rotation of the pump on the motor
- Should the pump be noisy during the startup, it is necessary to untighten the clamp screw, reposition the pump and tighten it again
- If the pump continues being noisy we suggest you interpose the 48YZ optional coupling (92-80-04) between the pump and the motor.

b) Motor with B14 or NEMA 56C mounting

- Make sure that the motor is unplugged from the electric line
- Mount the motor side of the coupling on the motor
- Tighten the set screw (only for the couplings equipped with the set screw)
- Insert the shock absorber in the coupling on the motor side
- Insert the pump side of the coupling in the shock absorber
- Mount the adapter on the motor flange and tighten the screws
- Insert the pump shaft into the coupling

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Fluid-o-Tech reserves the right to alter the specifications indicated in this catalogue at any time and without prior notice.

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