



LMI PUMP

Peristaltic Pumps / Product Safety Information



LMI® PERISTALTIC PUMPS

Product Safety Information



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**LMI**[®]

PERISTALTIC PUMPS

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PRODUCT DESCRIPTION

Peristaltic pumps are a rotary electric motor-driven positive displacement pump containing a tube which is successively compressed mechanically to achieve pumping action. These pumps are able to pump harsh chemicals, and compatibility needs verification to select the correct tube material before operation. Any other use outside of the intended purpose defined in LMI literature may cause equipment damage and / or serious injury or death. Your local LMI distributor is at your disposal for information that you may not find in this manual.

GENERAL PRODUCT SAFETY INFORMATION

WARNING!

- Do not operate before reading manual(s) supplied with this product.
 - Read all documentation supplied with the product.
 - Contact LMI PUMP or nearest Distributor if in doubt about installation, operation, inspection and/or maintenance instructions.
 - Do not discard manuals. Keep manuals readily available for all personnel.
- Always install, operate, inspect and maintain this product in accordance with all applicable standards and regulations (local, state, country, federal, etc.)
- Always wear eye protection when operating or performing maintenance on this pump.
- Always use Personal Protective Equipment when operating or performing maintenance on this pump. This may include and not be limited to, a dust mask or a breathing apparatus, safety glasses, ear plugs, gloves, apron, safety shoes, hard hat and other equipment.
- Do not modify the pump, safety devices, or accessories.
- Use accessories recommended by LMI Pump.

Transport and Storage

- Store pump in a dry place. Do not remove product from box / packaging during storage.
- Do not drop or damage box / packaging. Handle with care.



PERISTALTIC PUMPS

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WHEN PLACING THE PUMP IN SERVICE

WARNING!

- Ensure electrical installation is performed by a qualified electrician.
- Lockout and tagout the main electrical supply to prevent possibility of power being supplied to the pump during installation or maintenance.
- The owner / electrical contractor must size the feeder cables to ensure that the circuit is balanced and not overloaded by other electrical equipment.
- Connect the pump only to electrical systems that are compatible with its electrical characteristics and that are within its rated capacity. Do not connect to an electrical supply of incorrect voltage and/or frequency.
- Install a main line disconnect switch on the incoming line. The pump is not equipped with an electrical disconnecting device. The owner is responsible for the design and installation of disconnect, overvoltage, short circuit, and overload protection.
- Verify pump operation has ceased and electrical supply is disconnected before performing any maintenance.
- Always make sure the voltage on the pump data plate matches the installation voltage before plugging the pump into a wall outlet or connecting to an electrical supply. If you are unsure, have a licensed electrician inspect and install your pump.
- Provide suitable grounds, clearance and lightning arrestors for all electrical components.
- Verify grounding connections after initial installation and periodically thereafter to ensure good contact and continuity has been maintained.

Handling

CAUTION!

- Never lift the pump by its suction / discharge connections or electrical lead cable assembly.

Installation

- Verify correct pump model and configuration prior to installation.
- Install the pump in a well-ventilated area away from heat sources.
- The position of the pump should allow easy access to all maintenance operations.
- Protect the pump from external damage and do not use the pump for structural support of the piping system. Be certain that the system components are properly supported to prevent stress on the pump parts.

WHEN USING THE PUMP

WARNING!

- Maximum surface temperature depends on pump operating conditions and ambient environment. Do not exceed maximum temperature limits. Refer to the Instruction Manual for maximum temperature limits.
- High pressure systems can cause personal injury, death, pump damage or property damage.
- Be sure that connecting tubes and other piping components are able to withstand fluid transmitted by this pump.
- Do not exceed the maximum material pressure of any component in the system.
- Do not service or clean pump and tubes while the pump is running.
- Pump damage caused by improper mounting, piping stress and external damage can result in fluid leakage.
- Be certain all operators of the pump have been trained for safe working practices, understand its limitations, and wear appropriate eye, hearing and other personal protection as required.

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CAUTION!

- Do not start the pump without the front cover properly secured.
- Suction and discharge piping must be of flexible type and compatible with the substance being pumped.
- Prevent unnecessary damage to the pump. Do not allow pump to operate when out of fluid medium for long periods of time.
- Disconnect power line from pump when system sits idle for long periods of time.
- Verify the chemical compatibility of the tube with the substance being pumped. Chemical compatibility may change with temperature and concentration of the chemical(s) within the substances being pumped. For specific fluid compatibility, consult the chemical manufacturer.

Operation

WARNING!

- Start operating the pump only after all electrical and mechanical connections are thoroughly checked.
- Tube life or product / fluid loss prevention is not guaranteed by LMI Pump. It is responsibility of owner to install fluid loss detectors.
- Tube rupture can lead to pump casing being filled with the pumped product and leakage of product out of the pump.
- The pump is volumetric and can build high pressures even by partial blockage of the discharge line. Ensure protections are in place to prevent any blockage of discharge line. Refer to the Instruction Manual for recommendations.
- Excessive material pressure: thermal expansion can occur when fluid in material lines is exposed to elevated temperatures and can cause system rupture. Install a pressure relief valve in the pumping system.
- Hazardous Material: Can cause serious injury or property damage. Do not attempt to return a pump to factory or service center that contains hazardous material. Safe handling practices must comply with local and national laws and safety code requirements.

NOTICE: Refer to the Instruction Manual for Pump & Model specific safety information.

SAFETY SYMBOL IDENTIFICATION



Hot Surface



Do not scrub static
spark Explosion
Hazard



Crushing Hazard



Read Manuals
Supplied
With Product

EXPLANATION OF SAFETY SIGNAL WORDS

DANGER! Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING! Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION! Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.

NOTICE! Indicates information or a company policy that relates directly or indirectly to the safety of personnel or protection of property.

PRODUCT PARTS INFORMATION

CAUTION!

Only allow LMI PUMP trained technicians to perform maintenance on the products. For additional information contact LMI PUMP or nearest authorized distributor. The use of other than genuine LMI PUMP replacement parts may result in safety hazards, decreased pump performance and increased maintenance and will invalidate all warranties.

The original language of this manual is English. Other languages are a translation of the original manual. Manuals can be downloaded from www.lmipumps.com

Refer all communications to the nearest LMI PUMP Office or Distributor.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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