

DESMI Pump Storage and Preservation



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1. PUMP STORAGE

If the pump or the pump unit (including motor) is not to be installed immediately after delivery, the customer needs to perform the following steps:

- 1.1 DESMI recommends that the pump is always stored indoors and in a dry area – e.g. packed in plastic sheeting and equipped with moisture-absorbent Silica Gel bags, and free from vibrations.
- 1.2 Storage area must be reasonably level, stable ground not subject to flooding.
- 1.3 Small pumps shipped in package may be stored as received, provided the skids have not been damaged in transit.
- 1.4 Sufficient sealing of suction and discharge openings to be ensured for preventing dirt, animals or vandals from entering.
- 1.5 For a duration not exceeding three months, moreover, it is recommended to turn the pump shaft manually and periodically every 3rd month to avoid any risk of seizure of rotating parts such as mechanical shaft seal and impeller.
- 1.6 If the storage duration exceeds three months, in addition to the precautionary measures specified in points 1.1~1.5 above, it is necessary to coat all exposed machined surfaces with an adequate rust preventative (consult your lubrication specialist) and re-apply the preserving fluid in pump casing every three months.
Make sure that the product used is compatible with the pump materials and complies with the environmental protection and personnel safety regulations currently in force.

Coat the pump by spraying anticorrosion oil through both input and output branches e.g. by means of pressure air every year. Recommended anti-corrosion oil is Q8 Ravel D, Shell Ensis PX / EX, Mobilarma 777 or similar oil. Also a neutral oil as e.g. a hydraulic oil can be used. If pumps are mounted in a piping system, the coating can be sprayed through manometer holes on input and output branches.

- 1.7 If the storage period exceeds 6 years then consider replacing the mechanical shaft seal and ball bearings in the pump (if any bearings in pump) and motor – due to limited life of rubber and bearing grease in bearings lubricated for life.

2. PUMP PRESERVATION

If the pump is mounted in a piping system and is not to be used in a longer period, then the following steps should be taken:

- 2.1 Empty the pump of liquid, flush it with clean hot water and dry it.
- 2.2 Spray the pump with anticorrosion oil as e.g. Q8 Ravel D, Shell Ensis PX / EX, Mobilarma 777 or similar oil. Also a neutral oil as e.g. a hydraulic oil can be used.
- 2.3 Pumps equipped with rubber seals of the EPDM type do not tolerate oils based on mineral oil – here certain cooking oils, silicone oil or a hydraulic oil of the fire-resistant type based on polyglycol shall be used instead.

- 2.4 Preserve the pump inside by spraying through both inlet and outlet branches e.g. by means of pressure air. If pumps are mounted in a piping system, the coating can be sprayed through manometer holes on inlet and outlet branches. The treatment should be repeated once a year.
- 2.5 The pump shaft must however be turned manually every 4 weeks to avoid standstill damages to bearings and mechanical shaft seal.
- 2.6 If the electrical motor fitted with anti-condensation heaters, should preferably be energized.

3. PUMP RESTART

- 3.1 Before restarting the pump make sure that the pump shaft can rotate freely and that the pump is filled with liquid.
During a long time storage / standstill period damages to bearing(s) and/or mechanical shaft seal are potentially possible, thus we recommend pump shaft to be rotated every 4 weeks.
If the pump shaft cannot be rotated freely by hand, the pump should be checked according to the pump Operation and Maintenance Instruction. Any forced restarting of a stuck pump is not allowed.

Manuals for most DESMI pumps are available on www.desmi.com. If not, then contact DESMI.

- 3.2 The bearing grease has a limited durability and should be replaced if storage exceeds six years.
- 3.3 Furthermore it should be considered whether the preservative agent should be removed before the pump is put into operation.

4. INFORMATION RELEVANT FOR DISASSEMBLY, RECYCLING OR DISPOSAL AT END-OF-LIFE

No dangerous materials are used in DESMI pumps – please refer to DESMI Green Passport (can be sent on request – contact a DESMI sales office) – i.e. common recycling companies can handle the disposal at end-of-life. Alternatively the pump and motor can be returned to DESMI at end-of-life for safe recycling.