

NEXTRA SERIES

MEMOLUB NEXTRA SERIES USER MANUAL

MEMOLUB.COM

INSTALLATION, REFILLING AND MAINTENANCE

Installation

Installation of the NEXTRA pump must be carried out exclusively by qualified technical personnel. During assembly, observe the following:

1. Make sure no other units are damaged during installation.
2. Do not install the product within the range of moving parts.
3. Keep a sufficient distance from sources of heat and cold.
4. Respect the product's specified IP protection rating.
5. Observe legal requirements on safety distances, assembly and accident prevention.
6. Keep all visual monitoring devices, such as pressure gauges, MIN and MAX markings and piston detectors, clearly visible.
7. Refer to the Technical data section for the correct installation position.

Installation location

Protect the product from humidity, dust and vibration. Choose an accessible location to make later installation and maintenance work easier.

Minimum assembly space

Provide enough clearance for maintenance work and for attaching the additional components needed to build a centralised lubrication system. Allow at least 100 mm of free space in every direction beyond the stated dimensions.

Risk of damage to the host machine or the pump: drill mounting holes only in non-load-bearing sections of the host machine. Never position fastenings between parts that move relative to one another, such as the machine bed and the machine assembly.

Electrical connection

Electric shock hazard. Disconnect the pump from the power supply before carrying out any work on electrical components.

Make the electrical connection according to the pump's connection type:

1. Prepare the plugs for the power supply (A) and the control line (B) according to the relevant connection diagram.
2. Insert each plug into its socket and secure it with the square plug screw to maintain the specified protection rating.
3. Connect the plugs so that no mechanical stress is transferred to the product.

Mounting the pressure relief valve

Protect each pump element with a suitable pressure relief valve rated for the maximum permissible operating pressure of the centralised lubrication system. We recommend installing a pressure gauge together with the pressure relief valve to monitor pressure build-up in the line.

1. Remove the closure plug from the pump element.
2. Screw the pressure relief valve into the pump element.
3. Repeat for each pump element.

Lubrication line connection

Handle lubricants with care and remove any spilled or leaked lubricant.

Connect the lubrication lines so that they do not transmit forces to the product (tension-free connection).

All components in the centralised lubrication system must be designed for the maximum operating pressure, the permissible ambient temperature, the output volume and the lubricant supplied.

Follow these guidelines when laying the lines:

1. Avoid obstructions to lubricant flow caused by sharp elbows, angle valves, protruding gaskets or abrupt changes in cross-section.
2. Where a change in cross-section cannot be avoided, use a smooth transition.
3. Use only clean components and pre-filled lubrication lines.
4. Preferably arrange the main lubrication line so that it rises, allowing venting at its highest point, and lay all lines so that no air pockets form.
5. Where possible, mount the progressive distributors at the end of the main line with their outlets pointing upwards.
6. If progressive distributors must be mounted below the main line, do not position them at the end of the line.

Filling with lubricant via the grease nipple

1. Switch on the pump for the duration of filling.
2. Connect the filler pump to the grease nipple.
3. Operate the filler pump until the grease level is just below the MAX mark.
4. Stop the filler pump and disconnect it from the grease nipple.
5. Switch off the pump.

Filling with lubricant via the optional quick-connect coupler

1. Switch on the pump for the duration of filling.
2. Unscrew the protective cap from the filling connection.
3. Connect the filler pump to the coupler.
4. Operate the filler pump until the grease level is just below the MAX mark.
5. Stop the filler pump and disconnect it from the coupler.
6. Screw the protective cap back onto the connection, turning clockwise.
7. Switch off the pump.

Pre-start inspection

To ensure safety and correct operation, inspections must be carried out by designated personnel. Correct any deficiencies immediately; only authorised, qualified specialists may carry out repairs.

Before the first start-up, check the following:

1. Electrical and mechanical connections are completed correctly.
2. The connection performance data matches the technical data specifications.
3. All components, including lubrication lines and progressive distributors, are installed correctly.
4. The product is protected by a suitable pressure relief valve.

5 here is no visible damage, contamination or corrosion.

6 ll protection and monitoring equipment that was removed has been reinstalled and is confirmed to be working.

7 All warning labels are present and in good condition

Inspection during initial start-up

To ensure safety and correct operation, inspections must be carried out by designated personnel. Correct any deficiencies immediately; only authorised, qualified specialists may carry out repairs.

During the first start-up, check the following:

1 There are no unusual noises, vibrations, moisture build-up or odours.

2 There are no unintended lubricant leaks at the connections.

3 The lubricant in the reservoir is free of air bubbles.

4 Bearings and friction points receive the intended quantity of lubricant.

MAINTENANCE

Checking pump operation

You can check pump operation from the outside by running a manual cycle and observing whether the stirring paddle rotates.

For troubleshooting pumps with a built-in control unit, refer to the LINK PLUS controller manual.

Replacing a pump element and pressure relief valve

Tip: when fitting a pump element, pack grease around its suction ports to prevent air pockets in the grease output.

1. Unscrew the defective pump element by its hexagon head from the pump housing, together with the pressure relief valve assembly if one is installed.
2. Fit a new pump element into the pump housing with a new gasket.
3. Screw a new pressure relief valve into the pump element as required.

Shutdown precautions

During shutdown, switch off the main equipment or machine and disconnect the pump from the power supply.

TROUBLESHOOTING

Fault	Possible cause	Remedy
Pump not working	Power supply to the pump interrupted; main equipment switched off; pump wiring loose or defective; pump in pause time; pump motor defective; internal cable damaged	Check for each of the listed causes and rectify. If the fault cannot be identified or rectified, contact your Memolub distributor.
Pump runs but delivers no grease or reduced output	Blockage or fault in the lubrication circuit; defective check valve; defective pressure relief valve; clogged suction bore in the pump element; pump element choked; air pockets in the grease; grease consistency too thick; incorrect configuration of the lubrication system	

SAFETY INFORMATION

Intended use and operating characteristics

NEXTRA pumps are designed exclusively for dispensing lubricants in centralised lubrication systems. Do not use NEXTRA pumps for any other purpose.

NEXTRA pumps are designed for intermittent operation. Continuous operation is not recommended and may cause malfunction or damage.

Refill NEXTRA pumps at regular intervals with clean lubricant recommended by the manufacturer, and make sure no air is trapped in the reservoir.

Although NEXTRA pumps operate automatically, check every two days that lubricant is emerging at all lubrication points.

Manufacturer's liability exclusions and warranty conditions

Any use of NEXTRA pumps outside the scope described in this user manual is considered misuse. Operating NEXTRA pumps in any way not specified in this manual voids all warranty and liability claims.

The manufacturer accepts no responsibility for damage resulting from any of the following:

- Lack of lubricant due to irregular refilling of the pump
- Use of contaminated lubricants
- Use of greases that are not suitable for pumping in centralised lubrication systems
- Chemical or biological alteration of the lubricant
- Improper disposal of used or contaminated lubricants, or of components that have been in contact with lubricant
- Unauthorised modifications to lubrication system components
- Use of unapproved or unsuitable parts

Personnel and safety precautions

Only qualified and trained personnel may install centralised lubrication systems.

Always disconnect the machine's power supply before starting any installation or service work.

When filling the reservoir of pumps with a high delivery volume and high operating pressure, overfilling can cause the reservoir to burst. Never fill beyond the MAX mark.

Do not use NEXTRA pumps in potentially explosive atmospheres.

Operate NEXTRA pumps only with an inline pressure relief valve installed.

Maintenance and environmental compliance

Dispose of used or contaminated lubricants, and of any parts that have been in contact with lubricant, in accordance with environmental protection regulations. Always consult the safety data sheets of the lubricants used.

To prevent accidents, observe all local, regional and national safety regulations that apply in the country of use.

Keep NEXTRA centralised lubrication systems away from sources of extreme heat and cold, and always stay within the specified operating temperature range.

For all drilling and welding work, follow the installation instructions of the vehicle or machine manufacturer.