

6.3 Maintenance work

Inform all adjacent areas about the maintenance work that will be carried out. The facility must be shut down, cleaned and secured before any work can be started. This is not necessary if subassemblies have to be moved to carry out the maintenance work. In this case, perform these movements using manual control. If the facility will be operated from a control stand, switch over to local control mode.

Important

In manual mode, the machine/facility must be operated only by qualified personnel to avoid damage to the facility.

6.3.1 Shutting down and securing the facility

- Before beginning any maintenance work, shut down the facility and clean the individual subassemblies.
- Dump the pressure in the delivery line system completely and clean the delivery line system.
- Dump the pressures in the hydraulic system completely.
- If an accumulator is fitted, open the accumulator dump cock until the pressure has dropped to 0 bar.

Danger

Before you inspect the subassemblies, make sure that the hydraulic pressure has dropped to 0 bar on all pressure gauges. The hydraulic lines can still be under pressure, even if the plant has been shut down, i.e. the hydraulically driven subassemblies can still execute movements that can cause injuries.

Secure the plant at the control cabinet by locking the master switch and applying an information plate warning against unintentional or unauthorized activation.

Important

Cleanliness is of great importance when maintaining hydraulic systems. Make sure that no dirt or other foreign matter can enter the system. Even small particles may cause valves to be scored, pumps to seize and throttle and control bores to become blocked.

6.3.2 Nuts and bolts**Important**

Use self-locking nuts and bolts once only.
Use only replacement nuts and bolts of the correct

- . model
- . DIN
- . dimensions
- . design
- . property class.

Note

For the tightening torques refer to the spare parts sheets of the individual subassemblies or to the "General tightening torques" section in the appendix.

6.3.3 Spare parts**Important**

Use only original spare parts. XXXXX AG accepts no liability for damage resulting from the use of non-original spare parts.

6.3.4 Additional installation sundries

Note

For additional installation sundries, such as screw locking devices, (fixtures . mechanical, liquid, micro-encapsulated), oils, grease and assembly pastes, see the spare parts sheets for the individual subassemblies.

Checking the centralized lubrication system

Essentially, maintenance comprises only topping up with clean lubricant in good time.

Filling the lubricant reservoir

The lubricant reservoir and the lines must be free from bubbles.

Important

Never pump the lubricant reservoir completely empty . top up before this happens. Air intake will lead to faults. Never fill above the MAX mark. The reservoir is filled via the filler nipple.

Note

Only use one of the greases listed in the lubricant recommendation table.