

## **HSE - Use of Hydraulic Equipment.**

Prior to using any hydraulic machinery or equipment, the operator must always read and understand the equipment user manual paying particular attention to any HSE instructions given. All safety related instructions or procedures must be followed. Prior to start-up any checklist points must be executed. Only qualified personnel shall install, operate and maintain the equipment.

1. User manual, instructions & procedures.
  2. Qualified personnel.
  3. Protective equipment.
  4. Education, training and instruction.
  5. First aid emergency and disaster preparedness.
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1. Hydraulic systems operate with high gas and oil pressures. Only qualified personnel shall operate or carry out any work on the equipment.
  2. No mechanical work shall be carried out on any part of the system before the pressure in the area of repair/maintenance work has been drained and shut off.
  3. Fingers or bare skin shall never be used for searching for small leakages in a pressurised oil system. Oil jets could be hazardous and can penetrate the skin. To detect leakages in the gas system, use leakage spray or soap water.
  4. A hydraulic system may include nitrogen charged accumulators that will maintain fluid under pressure even when the system pumps are stopped. Prior to working on such a system, all stored fluid in the accumulator(s) must be drained off by means of drain valves. Prior to dismantling the accumulator, all nitrogen must be bled off in a controlled manner. This can be performed using a nitrogen charging set.
  5. To avoid injury from slipping and falling, immediately clean up any spilled fluid/liquid.
  6. Ensure that the Material Safety Data Sheet for the actual operating fluid is always near the unit.
  7. Ensure that the unit and hydraulic hoses are secured safely before use/operation.
  8. Ensure that the area round the machine has sufficient lighting. (Outdoor: Especially during night time operations)
  9. Lifting and handling operations can present increased risk of injury. It is therefore important to plan and execute such operations carefully and cordoned off safety zones around the lift area should be established.
  10. Safety shoes and glasses are mandatory. Hearing protection and hard hats as required.
  11. Elements that must be in place before it is conceivable to perform work on electrical installations:  
**Never guess, always check.**