



# Safety Instructions

THESE INSTRUCTIONS MUST BE READ BY THE OPERATOR  
BEFORE FIRST USING THIS EQUIPMENT.



## 16.2 Submersible Water Pumps

- This equipment is designed to be operated by someone with normal ability. Persons with a disability or injury must assess whether their disability, when using the equipment, will affect their health and safety and the safety of others.
- It should only be operated by someone with experience of similar equipment.
- This equipment must not be used by anyone whose competence is impaired, for example by drink or drugs.

- 1 Submersible pumps must be operated correctly according to the manufacturer's or owner's operating instructions, which are available on request if required.
- 2 **NEVER** operate these pumps unless they are partly or fully immersed in water. They do not pump other liquids.
- 3 **ENSURE** that when positioning the unit that the lifting ring is used and that the pump is positioned so as to prevent it sinking into soft mud or silt.
- 4 **NEVER** use the electrical cables or attachment hoses as a means to move the pump.
- 5 **ENSURE** that any cables, extension or connections are routed correctly to prevent them from being drawn into the pump during suction operation.
- 6 **DO NOT** attempt to move the pump unless the power has been switched off.
- 7 **DO NOT** place the unit near combustible materials or in a flammable atmosphere.
- 8 Before starting the pump the operator should familiarise himself/herself on how to stop it.
- 9 **CHECK** children and animals are clear of the work area. Provide a suitable barrier around the work area.
- 10 Wear personal protective equipment as conditions determine. Waterproof overalls safety helmet, safety goggles, protective footwear and gloves could be necessary.
- 11 **ALWAYS** have a first-aid kit readily available.
- 12 **DO NOT** ignore the risk of drowning. If necessary, wear a safety harness and lanyard.
- 13 Ensure that there are no poisonous gases within the work area.
- 14 All personnel working with sewage systems **MUST** be vaccinated against disease. **ALWAYS** observe strict cleanliness.
- 15 **NEVER** interfere or touch the pump whilst in operation.
- 16 Keep clear of flexible hoses during start up, as they may jerk violently.

### Electrically Driven Pumps

- 17 **CHECK** the pump rotation by suspending the pump and operate the motor for one second only. **DO NOT** dry run the pump any longer than this as over heating of the motor will occur.
- 18 **CHECK** that all hose attachments are free from kinks or obstructions.
- 19 Suspended pumps are to be restrained to prevent possible violent or erratic movement that could cause damage to personnel, equipment or property.
- 20 Suspend the pump using the wire cable supplied. Make sure that the power cable is slack and does not carry the weight of the pump.
- 21 Watch the reaction of the casing during pump start up. An arrow on the motor casing indicates reaction direction. The reaction of the jerk is normally in an anti-clockwise direction.
- 22 **ENSURE** that all cables are routed safely and are secured to prevent them from being drawn into the pump suction during operation.
- 23 The motor must be protected by an overload device and correctly fuse rated.
- 24 Pumps may be supplied with a flotation tank; this assembly is only intended to support the weight of the pump.
- 25 Under no circumstances should personnel attempt to stand on the flotation tank.

### Hydraulically Driven Pumps

- 26 Before operating the hydraulic submersible pumps the operator must understand that hydraulic fluid creates very high pressures which can cause serious injury to personnel or damage to property.
- 27 **CHECK** that all hose attachments are free from kinks or obstructions.

- 28 Suspend the pump using the wire cable supplied. **ENSURE** that the power cable is slack and does not carry the weight of the pump.
- 29 Watch the reaction of the casing during pump start up. An arrow on the motor casing indicates reaction direction. The reaction of the jerk is normally in an anti-clockwise direction.
- 30 Whenever necessary the pump should be placed on a platform to prevent it from sinking into the soft mud or silt.
- 31 **ENSURE** that all hydraulic hoses are routed safely and are secured to prevent them from being drawn into the pump suction during operation.
- 32 Pumps may be supplied with a flotation tank; this assembly is only intended to support the weight of the pump.
- 33 Under no circumstances should personnel attempt to stand on the flotation tank.
- 34 **ENSURE** that hoses can not become cut accidentally.
- 35 **DO NOT** attempt to move, reposition or make adjustments to the pump whilst under hydraulic pressure. Isolate the supply and relieve the hydraulic pressure by means of venting.
- 36 **ENSURE** that all hose connections are fitted correctly and that they are positively engaged.

**Seek advice from the Hire Company.**

- 37 When noise levels are uncomfortably high over 80dB(A), it is advisable to wear hearing protectors.
- 38 If higher noise levels occur regularly when it is necessary to shout to be heard, (85dB(A) and above) the law requires that hearing protectors must be worn.
- 39 **DO NOT** smoke when refuelling. **NEVER** refuel with the engine running.
- 40 Replace the fuel caps securely on the engine and fuel container. Wipe up any spillage immediately.
- 41 Fuel containers should be in good condition and leak proof.
- 42 **CHECK** that there is no combustible material on the exhaust system. The exhaust and silencer get very hot.
- 43 In the event of a leak of fuel or oil developing, switch the engine off **IMMEDIATELY**.
- 44 **CHECK** that all guards are secure. **NEVER** operate the equipment with missing or defective guards.
- 45 **DO NOT** attempt repairs. Contact the Hire Company.



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This leaflet is one in a comprehensive series of equipment safety instructions available from the CPA