

INSTALLATION INSTRUCTIONS

Operation and Maintenance

Check oil level prior to starting and ensure trouble-free water supply. Oil: Use only 23.7 ounces (0.7 litres) of Giant oil (p/n 01154) ISO VG 220 (e.g. Aral Degol BG220) or SAE 90 gear oil.

Initial change after 50 operating hours and then every 1000 operating hours or after 1 year if used less.

Caution! When operating in damp places or with high temperature fluctuations. Should condensate (frothy oil) occur in the gear box, oil must be changed immediately.

Maximum input pressure 145 PSI (10 bar).

Maximum suction head -4.35 PSI (-0.3 bar) (dependent on the viscosity of the medium). Maximum input pressure 145 PSI (10 bar), maximum suction head -4.35 PSI (-0.3 bar). Make sure that suction pulsation is sufficiently dampened - water column resonance must be avoided.



Safety Rules

Pump operation without safety valve as well as any excess in temperature or speed limits automatically voids the warranty. The safety valve must be regulated in accordance with the guidelines for liquid spraying units so that the admissible operating pressure can not be exceeded by more than 10%.

When the pump is in operation, the open shaft end must be covered up by a shaft protector (17). The driven shaft side and coupling (or belt guard) should have a metal guard over all moving parts.

Before any maintenance to the pump takes place, the pressure in discharge line and in pump must be at zero. Close suction line. Disconnect fuses to ensure that the driving motor is not accidentally switched on.

Before starting the pump, make sure that all parts on the pressure side of the unit are vented and refilled (with pressure at zero).

In order to prevent air, or an air/water-mixture being absorbed and to prevent cavitation occurring, the pump-NPSHR, positive suction head and medium temperature must be kept under control.

Cavitation and/or compression of gases lead to uncontrollable pressure-kicks which can ruin pump and unit parts and also be dangerous to the operator or anyone standing nearby.

The BP100 pump is suitable for pumping clean water as well as for water containing bentonite in a concentration of maximum 55 lbs. (25 kg) of bentonite diluted in 264 gallons (1 cubic meter) of water.