

# INSTALLATION INSTRUCTIONS

## Operation and Maintenance

Check oil level prior to starting and ensure trouble-free medium supply.

Oil amount: 101 ounces (3.0 L). Only use **ISO VG 220 industrial gear oil** (ex. Aral Degol BG220) or **automobile gear oil SAE 90 GL4** (Giant's p/n 01154).

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 or if condensate (frothy oil) occurs 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.**

**IMPORTANT!** To avoid any incrustation of the medium on to the plunger bases (25), the plungers should be rinsed after every operation by running clear non-pressurized water through the 3 front crankcase openings (1) and seal retainers (32).

**IMPORTANT!** If recycled bentonite is being pumped, the pump must be rinsed for 3-5 minutes with clear water after usage to flush out dirt particles (sand) in the bentonite. The service life of the seals, ceramic plungers and valves depends largely on how fine the recycled bentonite is filtered.

## 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 shaft protector (21), the driven shaft side and coupling by a contact protector.

To cover the exposed crankshaft end, mount the shaft guard (21) together with the holder (21A) onto the bearing cover (14) and secure with bearing cover screws (17).

Pressure in discharge line and in pump must be at zero before any maintenance to the pump takes place. Close up suction line. Disconnect fuses to ensure that the driving motor does not get switched on accidentally. Make sure that all parts on the pressure side of the unit are vented and refilled, with pressure at zero, before starting the pump. In order to prevent air, or an air/medium 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 BP5236 Giant triplex pump is suitable for pumping clean water as well as water containing bentonite in a concentration of maximum 55 lbs (25 kg) of bentonite diluted in 1.3 cubic yards (1m<sup>3</sup>) of water.