

INSTALLATION INSTRUCTIONS - P46W, P46W-HK, P46HT, P49W & P49W-HK

Operation and Maintenance

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

Important! If there is a **danger of frost**, the water in the pump and in the pump fittings (particularly the unloader valve) must be emptied. The pump can be run "dry" for 1-2 minutes for this purpose.

Oil: Use only 8.8 ounces (0.26 litres) of Giant Oil (p/n 01154) or ISO VG 220 GL4 (e.g. Aral Degol BG220) or SAE 90 GL4 gear oil.

Initial change after 50 operating hours and then every 500 operating hours, after 6 months operation in any case.

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.

Keep NPSH under control.

Max. input pressure 145 PSI (10 bar), maximum suction head -4.35 PSI (-0.3 bar).

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

Pressure in discharge line and in pump must be at zero before any maintenance


to the pump takes place. Close suction line. Disconnect fuses to ensure that the driving motor does not accidentally switch on. Make sure that all parts on the pressure side of the unit are vented and re-filled, with pressure at zero, before starting the pump. In order to prevent air, or an air/water-mixture being absorbed and to prevent cavitation occurring, the pump-NPSHR, positive suction head and water 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.

Giant Plunger Pumps are suitable for pumping clean water and other non-aggressive or abrasive media with a specific weight similar to water.

Before pumping other liquids, such as inflammable, explosive and toxic media, the pump manufacturer must under all circumstances be consulted with regard to the resistance of the pump material. It is the responsibility of the equipment manufacturer and/or operator to ensure that all pertinent safety regulations are adhered to.

Additional Instructions for P46HT (high temperature) pumps

 Please read operating instructions carefully before putting the pump into operation!

Important! Do **not** use grease when renewing the high pressure plunger seals (pos. 31/50).

Hot water causes grease to wash off the seal which in turn can jam valves! The new seals should only be oiled lightly before installation.