


# INSTALLATION INSTRUCTIONS

 Safety Rule: The pump is not to be used without a safety valve.

## Operation and Maintenance

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

The viscosity and the vapor point of the conveyed medium determine the required input pressure.

The valves of the pump open at a pressure of 5.8 PSI (0.4 bar). This resistance must also be considered when calculating the input pressure. The maximum input pressure is 145 PSI (10 bar).

Oil: Use only 9.5 ounces (0.28 liters) of industrial gear oil SAE90 (Giant's part number 01154) or as per ISO VG e.g. Aral Degol BG 150 before starting.

Initial change after 50 operating hours and then every 500 operating hours or 1 year if used less.

Caution when operating in damp places or with high temperature fluctuations. Oil must be changed immediately should condensate (frothy oil) occur in the gear box.

## 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 maximum admissible operating pressure can not be exceeded by more than 10%.

When the pump is in operation, the drive shaft end and the coupling must be covered up by either a contact-protector or by a coupling bell. 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 before starting the pump. In order to prevent air, or an air-water mixture being absorbed and to prevent cavitation occurring, the pump-NPSHR 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.**

**Before pumping 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 manufacture and/or operator to ensure that all pertinent safety regulations are adhered to.**

For additional information on how this pump functions, go to:

[https://www.giantpumps.com/wp-content/uploads/2019/06/P201\\_P202\\_P204\\_P213-Function-Description.pdf](https://www.giantpumps.com/wp-content/uploads/2019/06/P201_P202_P204_P213-Function-Description.pdf)