Instruction Leaflet
Bedienungsanleitung

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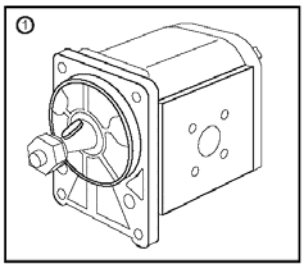
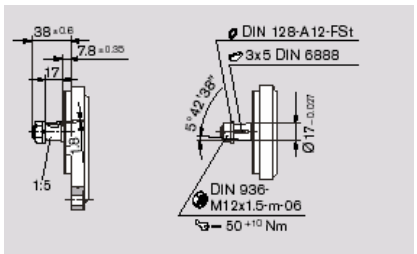
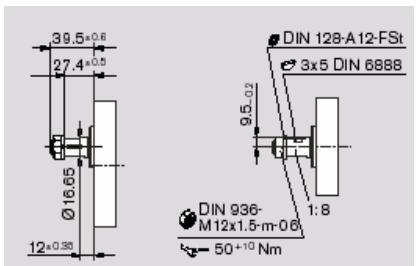
GB RS Stock No.

Tapered Shaft 1:5
5115652, 5115674, 5115680, 5115696.
Tapered Shaft 1:8
5115703, 5115719, 5115731, 5115747.





1:5 Taper Shaft



1:8 Taper Shaft

Installation details

Drive

The shaft end of the pump and motor must be aligned, and connected by a flexible coupling. Shaft end details are shown in Figure 2.

Oil tank

The content of the oil tank must be suited to the operational requirements thus ensuring that the operational temperature does not rise excessively (see technical specification).

All return and drain lines should be arranged to prevent return or leakage oil from immediately being re-circulated by the pump. All lines must finish at least 5cm below the lowest level of the fluid, in order to prevent foam being generated.

Pipe ends should be cut at 45° and should be positioned not closer than 5cm from the bottom of the tank in order to prevent any dirt present from being disturbed.Pipe lines and connections

Before installation, remove the protective plastic plugs from the pump. Ensure the suction port pipework has an airtight connection.

Filtration

Wherever possible a return line or pressure filter should be used. Suction line filters should only be used if fitted with electrical warning switches or clogging indicators.

For maximum permissible degree of contamination, see technical specification.

WARNING: If on start-up, the pump and fluid temperature differ by more than 20°C, the pump should be started carefully in a series of short pulses (approx. 1 sec) in order to minimise the temperature difference and prevent the pump seizing. If the fluid is warmed by means of a heating system, the pump should be run during the heating process.

Commissioning

Start the pump without load, checking for correct direction of rotation. Allow the pump to run for a few seconds in order to create sufficient lubrication. In no case, may the pump be allowed to run without oil. If the pump does not run without bubbles within 20 seconds, check the installation once more. Increase the pressure in the system in small stages, check pipe connections for leakage and check the operational temperature.

Technical Specification
General

Construction	**External gear pump**
Port connections	**Flange**
Direction of rotation	**The pump may only be driven in the given direction of rotation**
Installation position	**Optional**
Ambient temperature range	**–30 °C...+80 °C**
Fluid	**Mineral oil-based hydraulic fluids to DIN/ISO,**
Viscosity	**12...800 mm2/s permitted range 20...100 mm2/s recommended range12...2000 mm2/s permitted for starting**
Fluid temperature range	**–30 °C...+80 °C**
Filter	**Maximum permissible degree of contamination of fluid to class 19/16 - ISO 4406. To achieve this, we recommend a filter with a retention rate of at least _20 = 100.**