Heated centralized grease lubrication system for use at low temperatures

Synthetic lubricants are customarily used at low temperatures.

In some cases involving applications exposed to low temperatures at their respective locations, it is no longer possible to deliver lubricants with a special texture. The generator - or the main bearing lubrication on wind energy systems (WES) - is a good example.

To nevertheless permit delivery of such special lubricants, SKF Lubrication Systems Germany AG offers a centralized lubrication unit with integrated heating. It comes with a flow control device and further heating components, all accommodated in a closed stainless steel cabinet.

The outgoing lube lines are insulated and electrically heated

Special system properties

- Working temperatures from -50 °C to +60 °C
- Dependable engineering
- Pump unit with agitator, reservoir capacity of 2 or 6 kg (basic version)
- Optional electrical lubricant-level check
- For grease up to NLGI grade II
- Includes integrated progressive feeder for control of the volumetric flow and forced apportioning of the lubricant to 1 to 12 lube points (basic version)
- Separate temperature adjustment for heating of the cabinet and secondary lines

Advantages

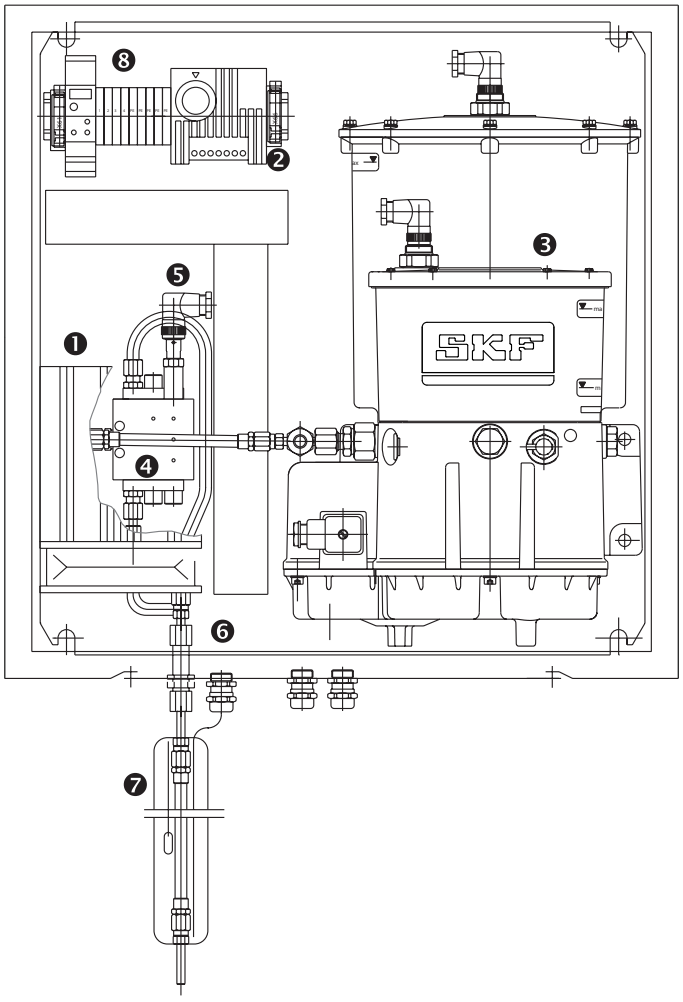
- Reliable delivery of the lubricant
- Electrical function check
- Simple installation
- Integrated control system
- Gentle heating of the lubricant
- "Plug and Play" solution

Functionality

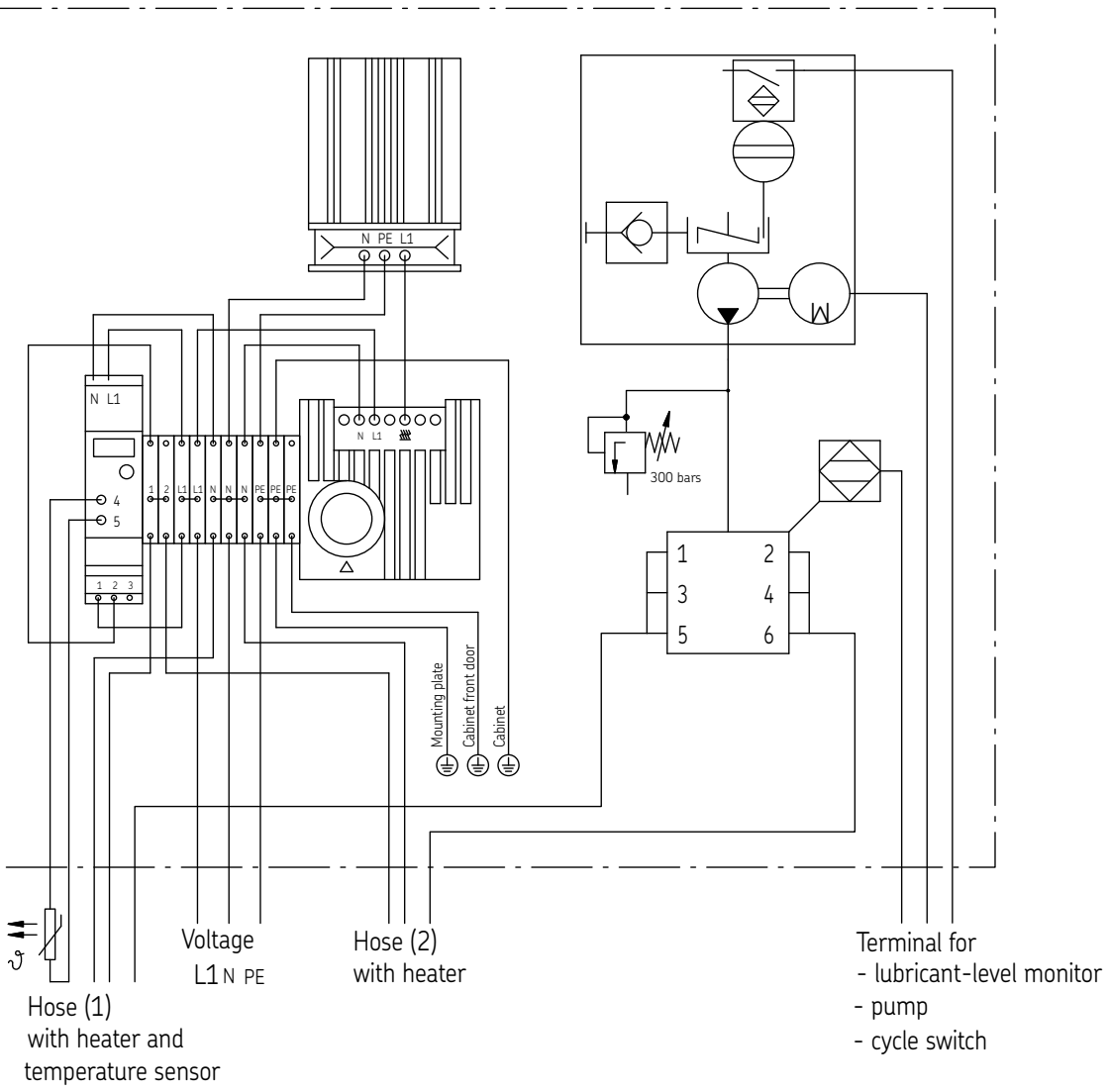
A powerful fan heater (**1**) in conjunction with an adjustable thermostat (**2**) helps to ensure a constant temperature in the cabinet. So the main components of the grease lubrication pump (**3**) and downstream progressive feeders (**4**) with piston detector (**5**) work in an optimal temperature range and feed a reliable supply of lubricant to the secondary lines (**6**). The heated secondary lines, hoses with integrated electrical heating (**7**), regulation and insulation help to ensure a constant and optimal temperature all the way to the lube point. Here, too, the temperature is controlled by another thermostat (**8**). The cabinet temperature and temperature of the secondary lines can thus be set separately.

See important product usage information on the back cover.

Implementation-example with two lube points



Connection-plan



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Important product usage information
All products from SKF may be used only for their intended purpose as described in this brochure and in any instructions. If operating instructions are supplied with the products, they must be read and followed.
Not all lubricants are suitable for use in centralized lubrication systems. SKF does offer an inspection service to test customer supplied lubricant to determine if it can be used in a centralized system. SKF lubrication systems or their components are not approved for use with gases, liquefied gases, pressurized gases in solution and fluids with a vapor pressure exceeding normal atmospheric pressure (1013 mbars) by more than 0.5 bar at their maximum permissible temperature.
Hazardous materials of any kind, especially the materials classified as hazardous by European Community Directive EC 67/548/EEC, Article 2, Par. 2, may only be used to fill SKF centralized lubrication systems and components and delivered and/or distributed with the same after consulting with and receiving written approval from SKF.

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