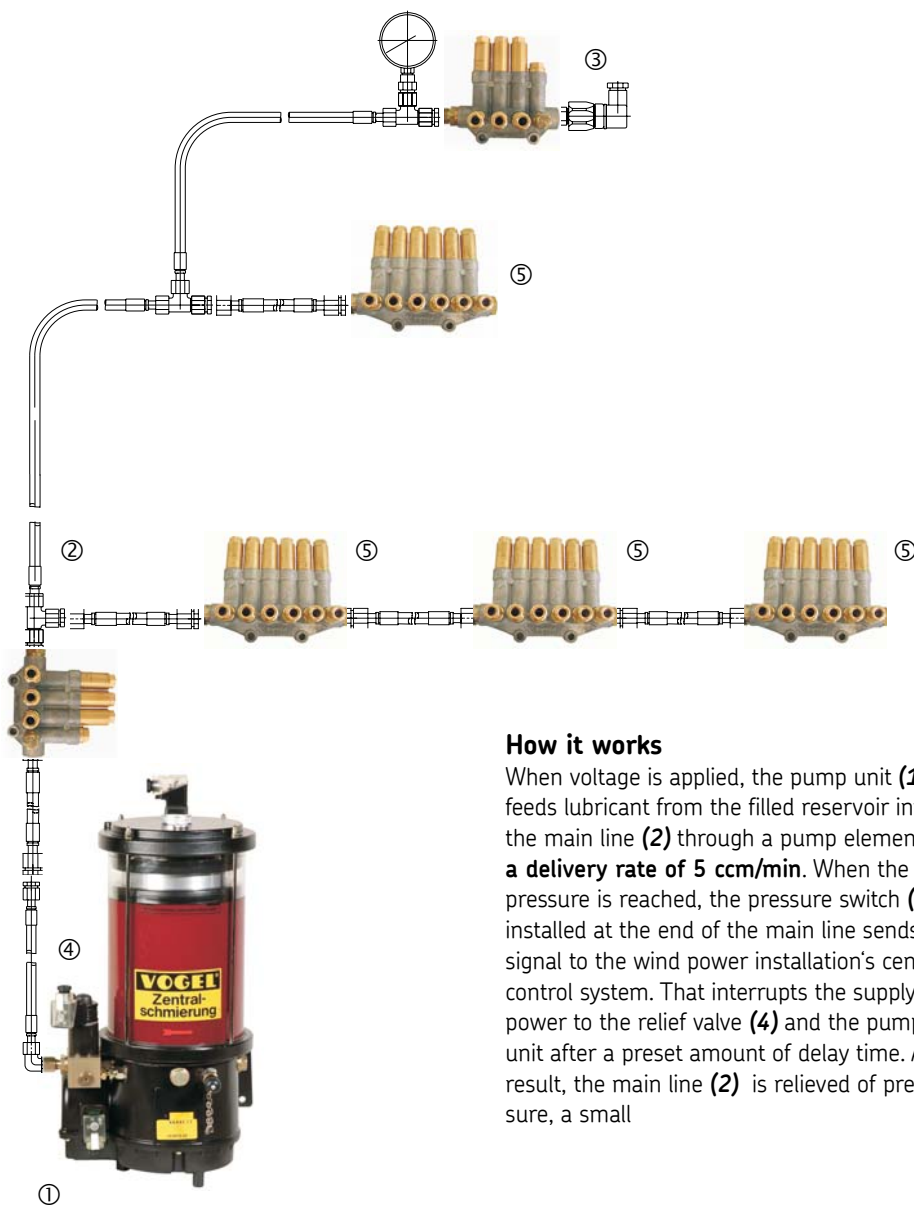




# WINDLUB

## Grease Single-Line Centralized Lubrication System for Wind Power Installations



### How it works

When voltage is applied, the pump unit (1) feeds lubricant from the filled reservoir into the main line (2) through a pump element **at a delivery rate of 5 ccm/min**. When the set pressure is reached, the pressure switch (3) installed at the end of the main line sends a signal to the wind power installation's central control system. That interrupts the supply of power to the relief valve (4) and the pump unit after a preset amount of delay time. As a result, the main line (2) is relieved of pressure, a small



residual amount flowing back into the pump unit's reservoir. The spring-loaded metering pistons of the distributors (5) then deliver a defined amount of lubricant to the lube points (relubrication distributors). That concludes a metering cycle. The procedure can be repeated – after the pressure in the main line has been relieved to a residual amount – until the desired total amount of lubricant has been fed to the lube points.

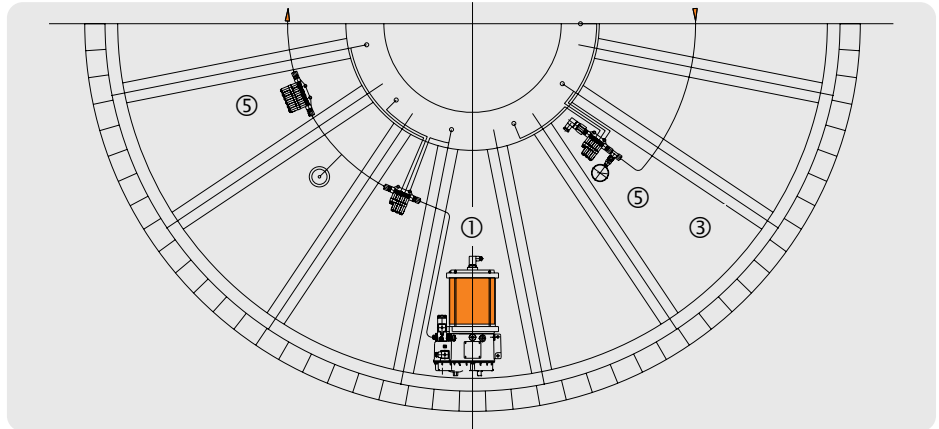


The single-line grease lubrication system is used to lubricate a wind power installation. It is approved for an operating voltage of 230 V AC or 24 V DC and for grease up to NLGI grade 2 with a flow pressure of  $\leq 250$  mbar.

A complete system consists of the pump unit with relief valve and the system of lines with distributors and pressure switch.

#### System Advantages:

- lube points supplied individually  
*based upon this*  
high apportioning accuracy and individual lube points supplied separately
- electronic filling-level check  
*based upon this*  
central monitoring of filling level by the wind power installation's management level
- visual check of lube-process strokes by way of an indicator pin  
*based upon this*  
visual check of lube-process strokes for each lubrication point
- suitable for operation on rotating parts  
*based upon this*  
can be used in the fixed or rotor section
- distributors come with quick connector technology  
*based upon this*  
reduced installation time/low installation costs
- system components available in a corrosion resistant version  
*based upon this*  
off-shore applicable



#### Pump unit with relief valve and filling level check

- Delivery rate: 5.0 ccm/min
- Power: 230 V AC (24 V DC)
- Reservoir capacity: 2 to 20 kg
- optionally with electronic control system
- optionally with exchangeable reservoir

Visual stroke check



#### Relubrication distributors

- with 3, 4, 5 or 6 outlet ports and visual stroke checks
- Rated metering volumes of 25, 50, 100 or 200 mm<sup>3</sup>/stroke

#### Willy Vogel Aktiengesellschaft

A company of the SKF Group

Competencecenter for windturbine lubrication  
2. Industriestrasse 4 • 68766 Hockenheim • Germany  
Tel. +49 (0)6205 27-0 • Fax +49 (0)6205 27-101  
info@vogel-berlin.de • www.vogelag.com • www.skf.com

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