

# Centralized Lubrication Systems for Construction Machinery



- Reduce downtime
- Reduce wear with automatic lubrication

## Why use centralized lubrication on your construction machinery?

*Because you can save yourself a lot of trouble and costs!*

A centralized lubrication system provides bearings with a continuous supply of lubricant at certain intervals, and it does so when the machinery is in operation and all the bearings are moving.

### Automatic centralized lubrication

- improves the machinery's availability!
- increases bearing life at fourfold!
- drastically reduces maintenance and repair costs!
- reduces expensive downtime in terms of both machinery and personnel!
- saves as much as 40% on lubricant!
- protects the environment!

## Why SKF centralized lubrication?

*Because its simply not like all the other centralized lubrication systems!*



*The KFGS/KFGS generation of pumps with integrated control system. Rugged design together with the latest technology.*

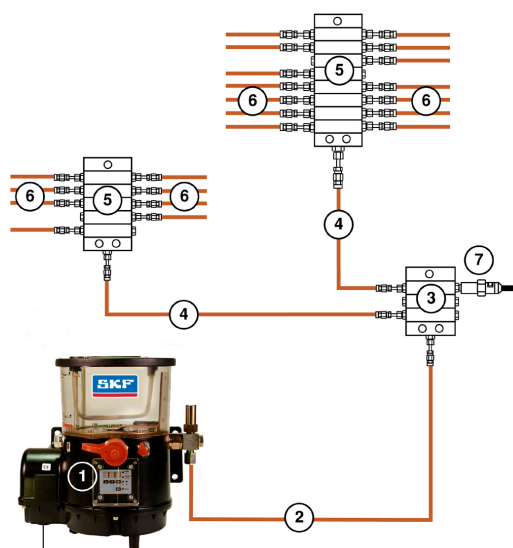
- SKF uses proven, rugged components.
- Universal simple control concept
  - set by pushbuttons
  - data shown on display
  - elapsed-hours counter
  - fault-hours memory
  - filling level monitor (optional)
  - PIN code protection
  - no laptop needed for programming
- SKF has decades of know-how and experience in the construction-machinery sector.
- First-class installation quality – with attention paid to the machine manufacturer's technical specifications – ensures high dependability.
- Our service means, optimum customer support – before and after the purchase!

## And this is how it works

- The integrated control electronics switch the lubricant pump on at the end of the preset interval time.
- The pump delivers lubricant through the main lines to the feeders for the duration of the preset contact time.
- The progressive feeders divide up the lubricant delivered by the piston pump in exactly the design ratio. So every connected bearing receives exactly the amount of lubricant it needs.
- Sustained forcing of the feeder ensures a high level of dependability.

Diagram of a progressive centralized lubrication system

- ① Pump
- ② Main lines
- ③ Master feeders
- ④ Secondary lines
- ⑤ Secondary feeders
- ⑥ Lines leading to the lube points
- ⑦ Cycle switch



## Installation of components and laying of lines

- **All components installed to last!**  
The lubricant pump, together with its safety valve and integrated control unit, is installed at a secure and easily accessible place on the machinery.
- **Professionals do the laying!**  
Feeders and lines are installed on the machinery where they are well protected. The places at which the components are installed and attached comply with the eye to the machinery manufacturer's technical specifications.
- **The universally applicable plug-in connector system – for plastic and steel tubing.**  
Its novel seal and collet concept is resistant to dirt, easy to install and detachable at the touch of a finger.
- **The system's functioning is displayed!**  
A green illuminated pushbutton in the cab shows the centralized lubrication system is functioning. The pushbutton can also be used if necessary to trigger additional lubrication.



*KFGS piston pump with 6 kg grease reservoir*

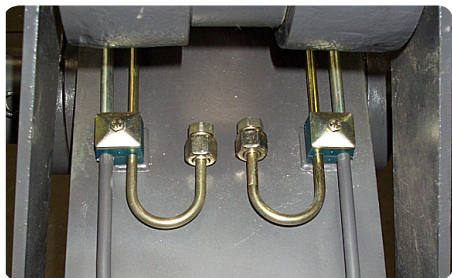


*VPM-3 progressive feeder with cycle switch as the master feeder and a VPKM-8 boom feeder*

## Installation of outside lines

Since machinery is exposed to the roughest and toughest environmental conditions in everyday use, the choice of the right material

for the lines and optimal laying are especially important tasks!



*Connection of the front end stick on an excavator. Welded-on adapters protect the lube point from damage!*



*Especially exposed lubrication lines, e.g. in the shovel area, are protected by sectional steel.*



*Lift-arm bearing assembly on a wheel loader. High-grade, yellow galvanized steel hydraulic tubing ensures maximum corrosion resistance!*

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