

perma Lubrication systems for

Pumps

perma-tec GmbH & Co. KG
Hammelburger Str. 21
97717 EUERDORF
GERMANY

info@perma-tec.com
www.perma-tec.com

The Expert in Lubrication Solutions

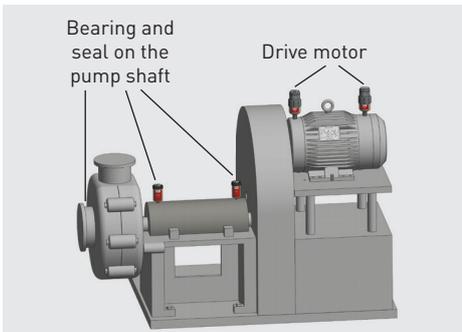
perma

perma Lubrication systems for Pumps

Pumps are the core of many industrial applications. A failing pump can often interrupt the entire work or production process. All sorts of pumps are used in many fields and applications. Appropriate lubrication, safeguarding the work and production process of the pump, is a decisive factor of smooth operation.

- Chemical & pharmaceutical industry
- Sewage treatment plants
- Power plants
- Food & beverage industry
- Refineries
- Mining & heavy industry
- Environmental technology
- Pulp & paper industry

Lubrication points



Lubrication points (roller bearings) are located on the **drive shaft** between drive motor and pump body or in the pump housing.

Lubrication of **gland seal** and **labyrinth seal** prevents the ingress of dirt and / or pumped media into the bearing. **Seals of bearings** and **bearing housings** must be permanently supplied with the specified amount of the right lubricant.

Challenges



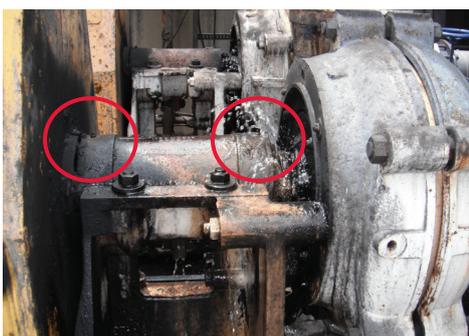
Pumps are normally operated under extreme conditions. These can include **heavy contamination** from slurry or dust and **hazardous materials** such as alkali solutions and weak acids.

- **Dirt, water or other contaminants** must not enter the bearing points

Many lubrication points can only be accessed with **extreme protective measures** (safety gloves and mask). This frequently leads to neglect of the prescribed lubrication.

Lubrication starvation results in wear and leads to **failure of equipment components** or pump **leakages**.

- **Lubrication while the machine is in operation** must be ensured
- Operation in **potentially explosive areas**
- **Workplace safety** must be ensured



HINT

Manual for pump lubrication available on request.



Advantages of automatic lubrication

- ✓ **Increased workplace safety** due to automatic lubrication of hard-to-reach lubrication points
- ✓ A precise lubricant discharge reduces lubricant consumption and **lessens environmental impacts**
- ✓ **Fewer maintenance runs** minimise the time spent in dangerous areas
- ✓ If a certified lubrication system is selected, it may be used **underground** or in **potentially explosive areas**

Reference



Solutions

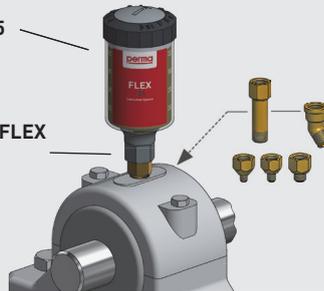
Direct mounting on the lubrication point: e.g. with perma FLEX

- Easy, quick mounting
- For lubrication points with little vibration / shocks
- For easy-to-reach, safe lubrication points



perma FLEX 125

Support flange FLEX
Art. No. 101427



INSTALLATION KIT for perma FLEX
Use extensions, angles & reducers depending on the installation situation

Art. No. 101476

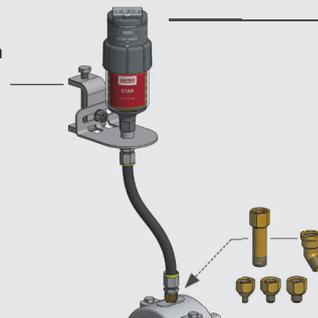
Remote mounting at lubrication point: e.g. with perma STAR VARIO

- For lubrication points with strong vibration / shocks (isolation of lubrication system)
- For lubrication points which are unsafe to access: Mounting in safe areas
- For hard-to-reach lubrication points



Beam clamp 65 mm

Art. No. 109958

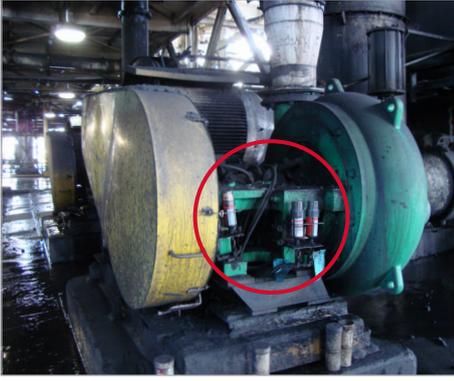


perma STAR VARIO
with LC 120

INSTALLATION KIT STAR with 3.0 m tube
Use extensions, angles & reducers depending on the installation situation

Art. No. 101482

Applications



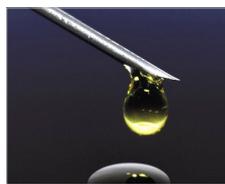
Individual solutions

perma Product portfolio



Solutions for all types of applications

perma Lubricants



Large selection of high quality lubricants to meet the requirements of your equipment

perma Accessories



Extensive range of accessories and connecting parts for your equipment

perma SERVICE



Project planning, installation and maintenance

perma SOFTWARE



Calculation of lubricant amount: • **perma SELECT**

Maintenance Lubrication Program: • **perma MLP**