



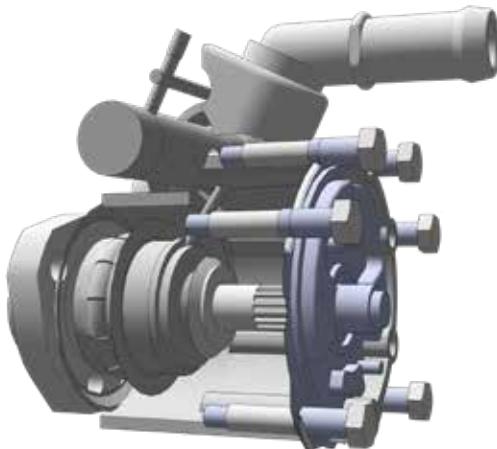
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PRODUCT INFORMATION

Hydraulic steering pump

- In the usual original equipment quality to fit perfectly in the vehicle
- High performance level and long lifetime
- Installation instructions to avoid incorrect assembly and possible damage

PRODUCT FEATURES



Application

Use in common passenger cars as well as commercial vehicles from: Mercedes-Benz, Volvo, Renault, DAF, Iveco, Neoplan, MAN, VAG, PSA, BMW, Vauxhall/Opel, Ford, Nissan.

Design and function

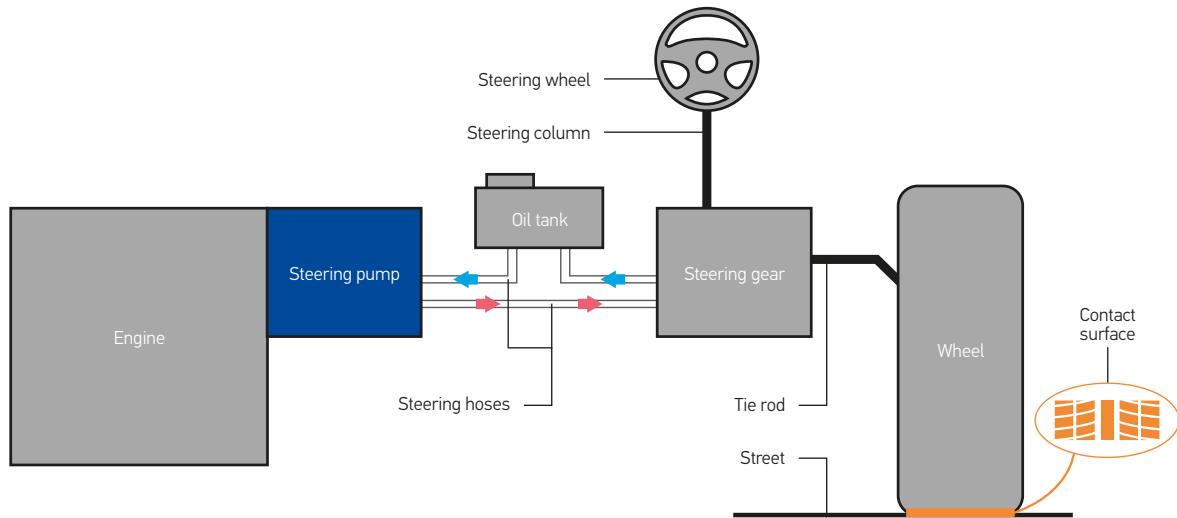
The mechanical hydraulic steering pump, also called servo pump, power steering pump or hydraulic pump, is driven by the vehicle engine via a V-belt. In this way, the pump generates the hydraulic pressure required by the power steering system to make the vehicle easier and thus more comfortable to steer when driving.

Two types of steering pumps, single and tandem, can be installed in commercial vehicles. Both have the same function, but tandem pumps also have an attached fuel pump driven by the same shaft.

Mounting

Easy to mount because of 1:1 replacements in OE quality. Installation instructions are supplied with the product.

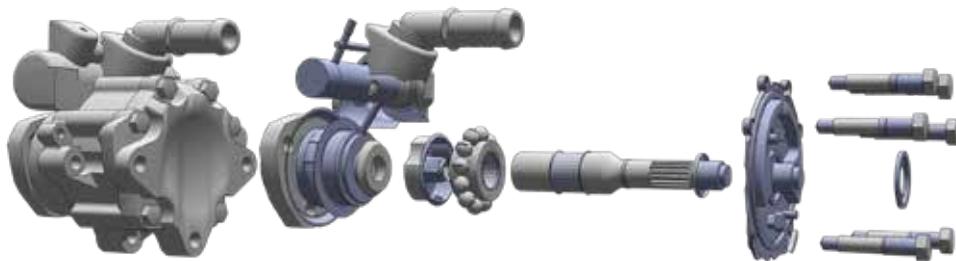
FUNCTIONAL DIAGRAM



The steering pump converts the mechanical drive energy at the pulley into hydraulic energy in the form of steering fluid pressure. The steering gear absorbs the steering fluid pressure transmitted via the pressure lines in the form of hydraulic energy and converts it back into mechanical energy. This mechanical energy is directed to the tie rods guiding the wheels to amplify the force exerted by the driver on the vehicle's steering wheel. This increases the efficiency of the vehicle control system, especially at low speeds.

The vehicle manufacturer sets the hydraulic power steering dimensions depending on the mass of the vehicle and the contact surface between wheel and road. The higher these values are, the greater the frictional forces on the contact surface and the more the power steering must compensate for these frictional forces.

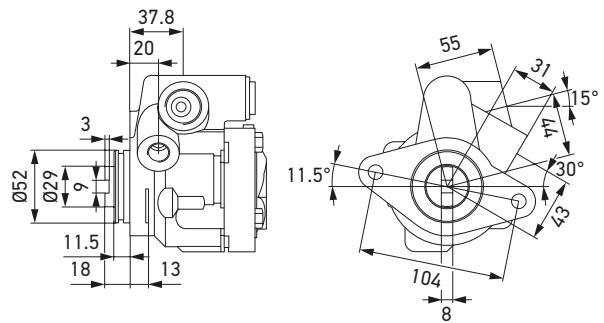
TECHNICAL DETAILS



Technical data

Operating temperature	-40 °C to 120 °C
Max. operating pressure	90 – 185 bar
Vibration resistance	Yes
Installation location	Engine

Dimensional sketch*



* The dimensions vary depending on the part
Example: Part number 8TL 359 000-871

Q&A

– Hydraulic steering pump –



1 As regards its basic tasks and functions, should the steering pump be regarded both as a safety-relevant part and also a comfort-relevant part?

The hydraulic steering pump is indeed relevant for both road safety and for comfort. It reduces the effort required to steer the vehicle and therefore helps the driver to concentrate more fully on the drive and the road traffic.

2 What are the first signs of a defective steering pump?

Noticeable noises, vibrations when turning the steering wheel, possible failure of the power steering.

3 What are the main causes of hydraulic steering pump failure?

Fill level or inferior quality of hydraulic oil, leaks in the steering support system (worn seals or cracks in hoses/pipes in the hydraulic system).

4 Can improper installation affect liability for defects?

Yes, it is very important that our customers know how important it is to flush and bleed the hydraulic steering circuit. It is also strongly recommended that when installing a new steering pump, the hydraulic oil be renewed and the filter replaced (if fitted) in order to ensure proper lubrication of the new part from the first engine start.

5 Are there any risks to road safety when driving with a defective hydraulic steering pump?

Yes, driving with a defective steering pump can lead to, among other things, reduced steering ability and reduced steering precision of the vehicle - (steering then requires considerably more effort - especially at low speeds).