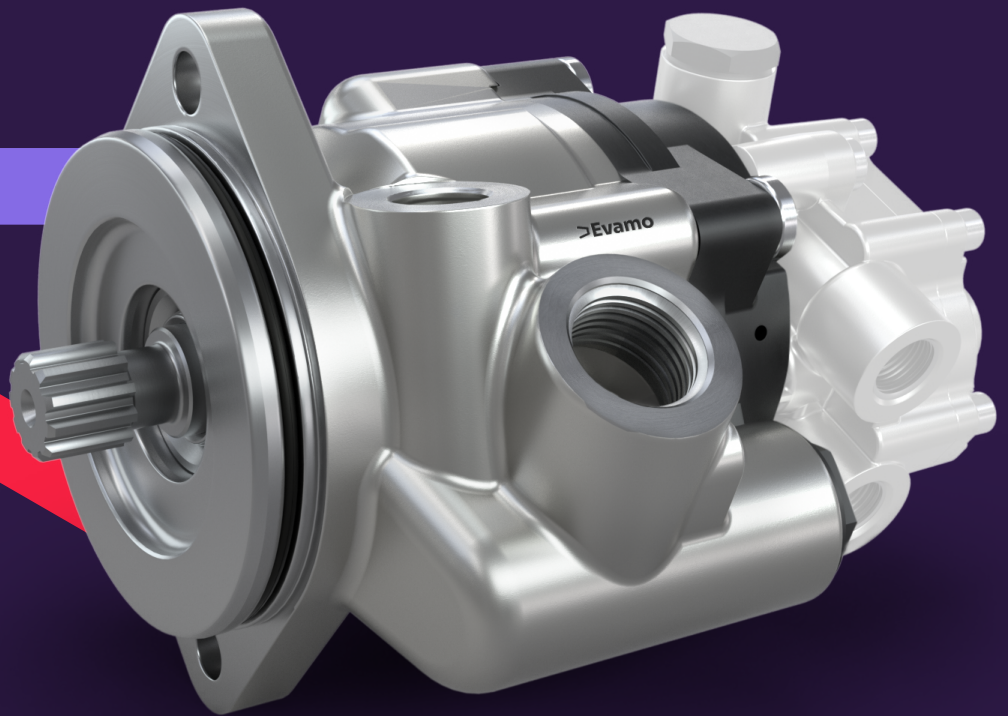


Commercial Vehicle Power Steering Pump FN4





Robust design.

Proven design ensures reliable supply to the steering system.

Task

The FN4 power steering pump supplies exactly the right amount of oil that is needed for operating hydraulic steering systems in medium to heavy commercial vehicles.

Function

The FN4 power steering pump is designed for connection to the air compressor or a power take-off on the engine. The shaft connects by means of a cross-slotted disk or spline toothing. It can be driven by either a gear or belt. For these cases, an anti-friction bearing is used for the drive shaft. The ball bearing needed for this can be integrated into the housing. The oil reservoir can be mounted directly on the pump. This eliminates the need for the hose line and saves the manufacturer assembly costs.

The FN4 power steering pump consists of a housing with an integrated volume flow control, cover, front plate, shaft and rotor set. The rotor set is comprised of the rotor, ten radially-guided blades as well as the cam ring with

High efficiency level with low weight.

two symmetrically arranged suction and pressure zones.

The fixed geometric delivery volume of the pump is defined by the design of the cam ring. The conveyed volume flow is limited to a defined value by the integrated volume flow control. The maximum system pressure must be limited by a pressure control valve installed on the pump or in the system. If required, a pressure level of up to 200 bar is available as a special version.

Variants

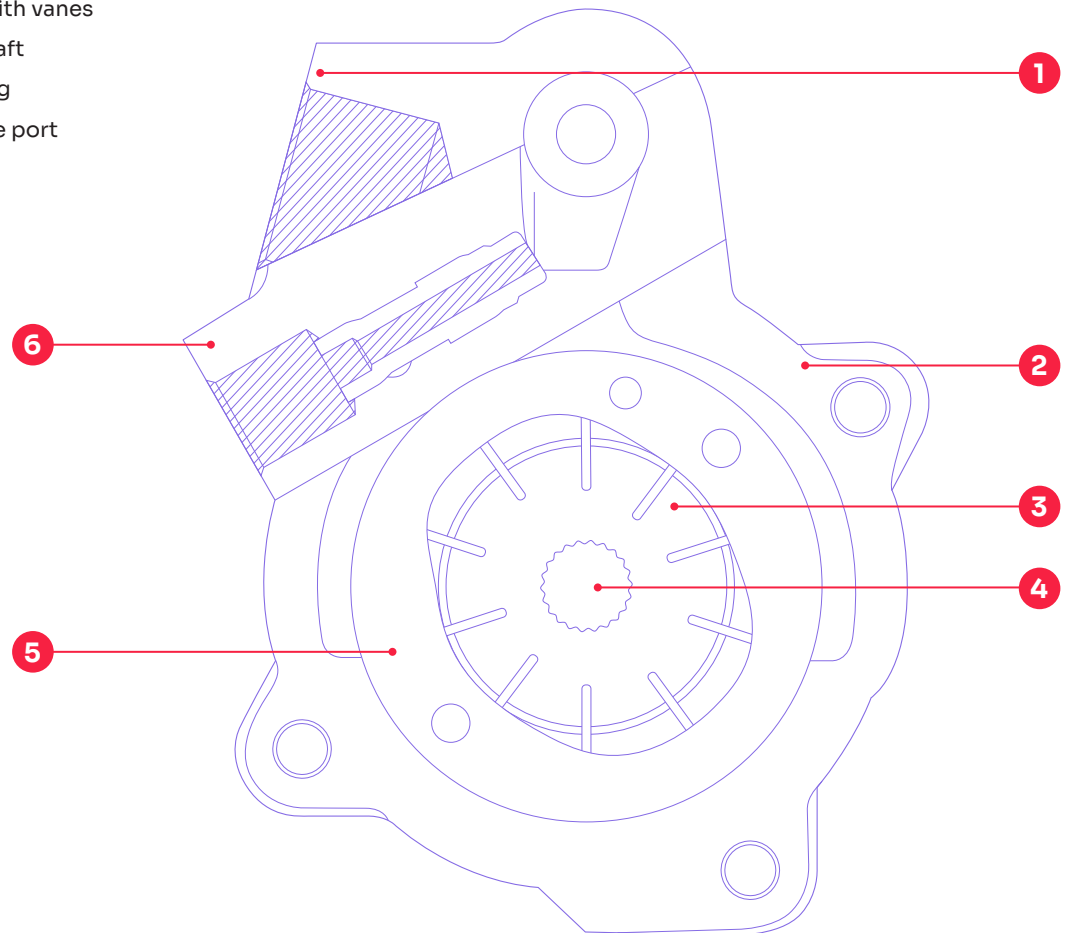
The wide-ranging manufacturing program of Evamo® includes various pump designs and model series. The FN4 can be combined in tandem with other pump types for various applications, e.g., fuel pre-feed. Both pump parts are connected via an intermediate housing and a shaft coupling.

Please feel free to contact us at any time for other individual wishes regarding technical requirements.

Product benefits

- Compact design
- High efficiency at a light weight
- High component flexibility due to a modular system
- Integrated volume flow control
- Optional with integrated pressure limiting

- 1 Suction port
- 2 Housing with flange
- 3 Rotor with vanes
- 4 Driveshaft
- 5 Cam ring
- 6 Pressure port



Technical data*

| | | | | | |
|---|--------------------------------|-------|-------|-------|-------|
| Delivery volume (cm ³ /rev) | 14 | 17 | 21 | 25 | 28 |
| Max. rotational speed (rpm) | 4,500 | 4,500 | 4,500 | 4,000 | 3,000 |
| Max. pressure (bar) | 185 | 185 | 185 | 185 | 165 |
| Controlled volumetric flow (dm ³ /min) | 9-16 | 12-16 | 12-25 | 16-25 | 16-25 |
| Suction port Thread | 1 1/16" – 12UN 2B M26 × 1.5 | | | | |
| Pressure port Thread | 3/4" – 16UNF 2B M18 × 1.5 | | | | |
| Max. Öltemperatur (°C) | 120 | | | | |
| Weight (kg) | 2.3 – 2.8 | | | | |
| Drive direction of rotation | clockwise or counter-clockwise | | | | |

*Technical data of an other optional tandem pumps are not considered here.