

Passenger Car Transmission Pump VPG





Up to 40%

lower power consumption compared to unregulated transmission pumps.

Task

The regulated VPG vane pump supplies exactly the right amount of oil and pressure that is needed for shifting and coupling in passenger car transmissions. In addition, the VPG also supplies the transmission components with oil for lubrication and cooling.

Function

The VPG transmission pump consists of an optional housing, cover, front plate, shaft and a rotor set. The rotor set is comprised of a rotor, radially-guided blades in the rotor as well as the cam ring and outer ring.

The position of the cam ring is hydraulically adjustable. The VPG behaves like an unregulated pump up to a defined control point. As soon as this control point is reached, the position of the cam ring is adjusted and the volume flow is regulated to the preset value. The decreased delivery volume reduces the power consumption, which lowers the system temperature in the transmission.

9000 U/min.

designed for high-performance.

Variants

The wide-ranging manufacturing program of Evamo® includes various pump designs and model series.

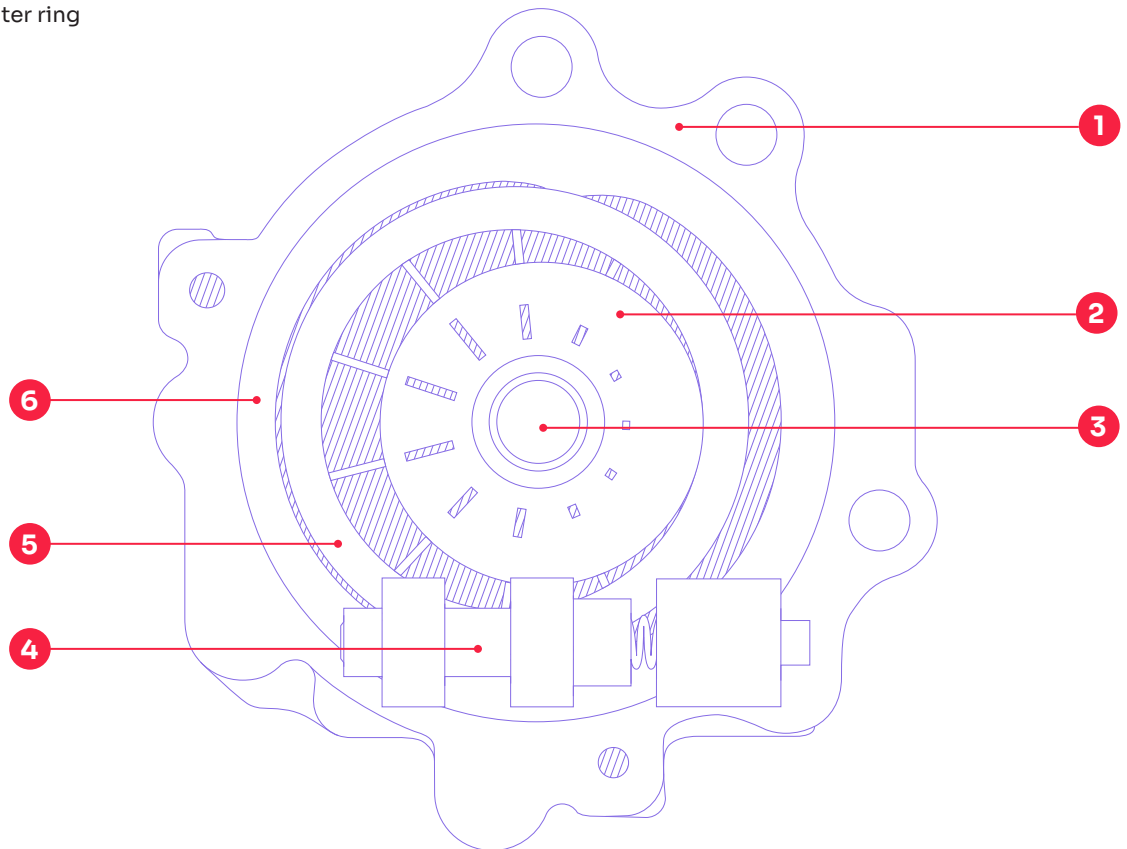
The VPG can be used as a cartridge solution (without a pump housing) in the existing transmission housing or mounted via its own housing in the transmission.

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

Product benefits

- Reduced power consumption compared to unregulated transmission pumps
- Compact design
- High efficiency at a light weight
- Demand-based transmission oil supply
- Robust, wear-free design
- With housing or as a cartridge solution

- 1 Cover with flange
- 2 Rotor with vanes
- 3 Driveshaft
- 4 Control valve
- 5 Cam ring
- 6 Outer ring



Technical data

Displacement volume (cm ³ /rev)	16.5
Controlled volumetric flow (dm ³ /min)	48
Max. rotational speed (rpm)	9,000
Max. pressure (bar)	22
Max. oil temperature (°C)	140
Weight (kg)	1
Drive	directly via a sprocket
Drive direction of rotation	clockwise or counter-clockwise