

# Passenger Car Power Steering Pump CP14





# Compact size: CP14 power steering pump

Full steering power made easy. Our CP14 power steering pump for hydraulic steering systems in passenger cars and light commercial vehicles will win you over with its absolute reliability as well as its compact design and low weight.

## Task

The compact CP14 power steering pump supplies exactly the right amount of oil that is needed for operating hydraulic steering systems in passenger cars and light commercial vehicles.

## Function

The CP14 power steering pump is powered via a motor belt drive. The hub or belt pulley is pressed onto the shaft. Mounting the pump to the engine bracket is done either directly or via a pump bracket.

The CP14 consists of a housing with a pressed-in intake port and an integrated volume flow control, valve screw with a pressure connection thread, cover, front plate, shaft and rotor set. The rotor set is comprised of a rotor, ten radially-guided blades as well as the cam ring with two symmetrically arranged suction and pressure zones.

The fixed geometric delivery volume is defined by the design of the cam ring. The pump shaft

is installed in the housing with plain bearings. The volume flow control limits the supplied volume flow to a fixed value and a pressure control valve in the valve pistons controls the system pressure.

## Variants

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

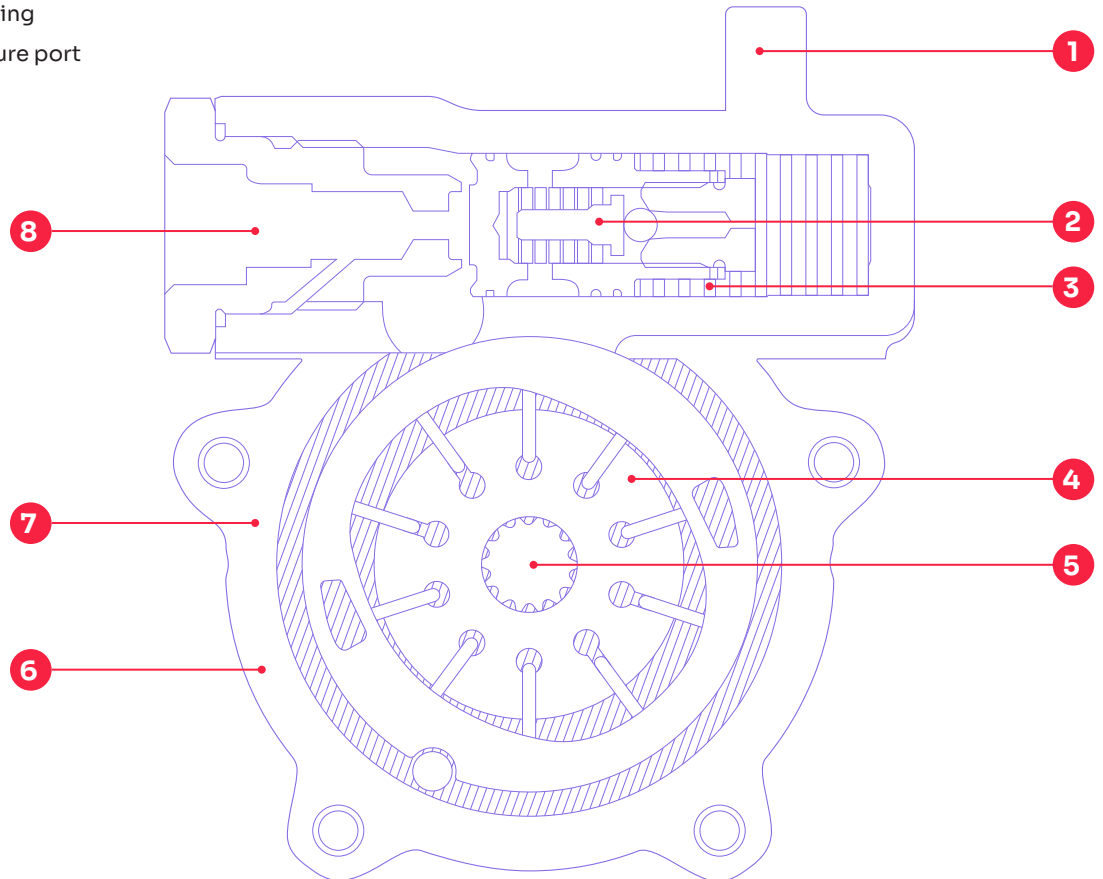
Because of our flexible construction method, we can implement customer-specific requirements in the production of the CP14 power steering pump. This gives us the option of installing customer-specific drive components or brackets in order to adapt the pump to the assembly space.

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
- Standard mounting according to VDA specification
- Integrated volume flow control
- Integrated pressure limiting

- 1 Suction port
- 2 Valve piston
- 3 Spring
- 4 Rotor with vanes
- 5 Driveshaft
- 6 Housing
- 7 Cam ring
- 8 Pressure port



**Technical data**

Max. theoretical displacement (cm <sup>3</sup> /rev)	7.2	8.5	9.6	10.5	12
Max. controlled flow (dm <sup>3</sup> /min)	5 to 8.5				
Max. rotation speed (rpm)	8,500				
Max. pressure (bar)	106				
Max. oil temperature (°C)	140				
Weight (kg)	1.15				
Drive	hub or belt drive				
Drive direction of rotation	clockwise or counter-clockwise				