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BRIEF INFORMATION

Control valve, camshaft adjustment

- HELLA offers over 60 years of cumulative electronics OE expertise
- Optimisation of engine idling and engine response
- Reducing fuel consumption and exhaust gas values
- Suitable for a wide range of applications

PRODUCT FEATURES

Application

Wide range with different part numbers for a variety of vehicle manufacturers: Acura, BMW, Chrysler, Dodge, Ford, GM, Honda, Hyundai, Jeep, Kia, Lexus, Mazda, Nissan, Toyota, Vauxhall.

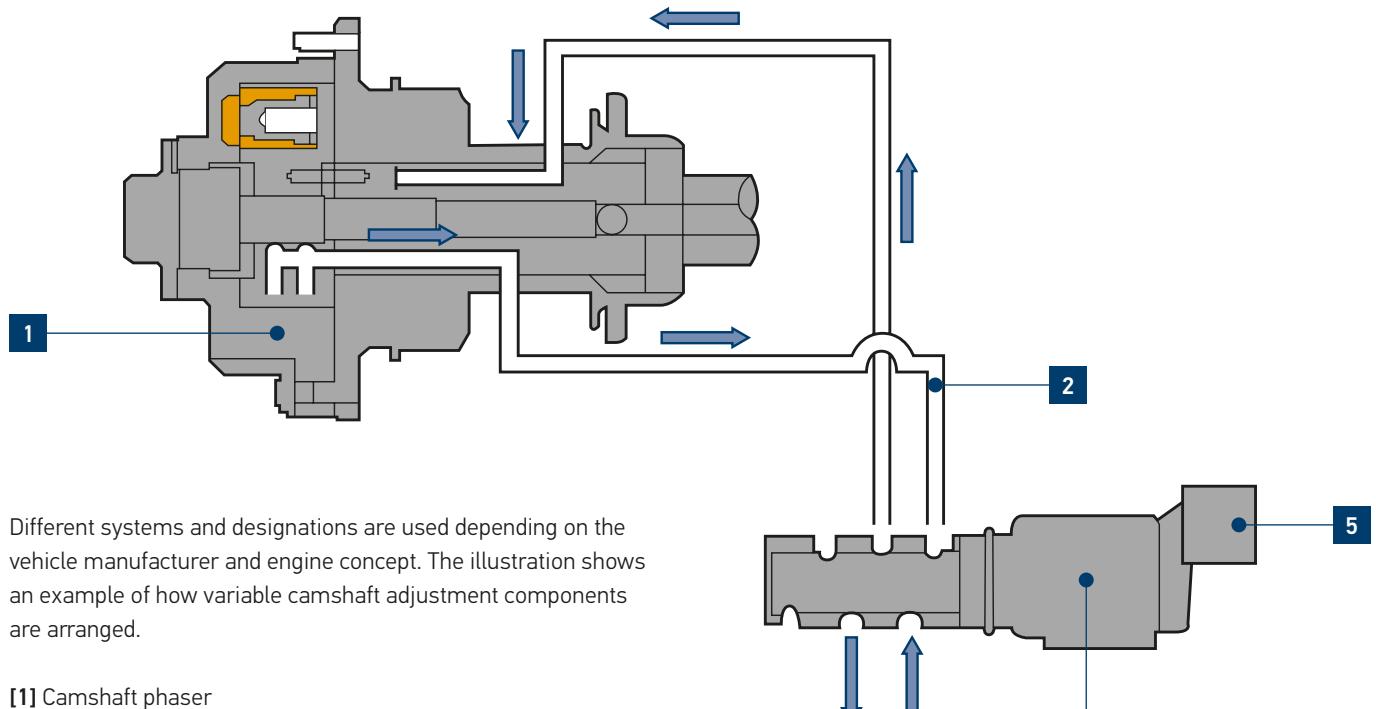
Design and function

The control valve is an electromagnetic actuator for variable camshaft adjustment and is installed on the cylinder head in the camshaft area. The valve transmits the oil pressure through different channels to the camshaft phaser in accordance with the engine management specifications, which changes the position of the camshaft and changes the timing.

The engine control unit electrically regulates the control valve. There may be one or more control valves installed, depending on the engine concept.

The variable adjustment of the intake and also the exhaust camshafts means that the cylinders are filled optimally, enabling higher power and improved torque characteristics over a certain speed range. In addition, this can reduce pollutants in the exhaust gas and fuel consumption. If the cam adjustment is used as internal exhaust gas recirculation, the nitrogen oxide values in the exhaust gas are also reduced.

APPLICATION EXAMPLES



Different systems and designations are used depending on the vehicle manufacturer and engine concept. The illustration shows an example of how variable camshaft adjustment components are arranged.

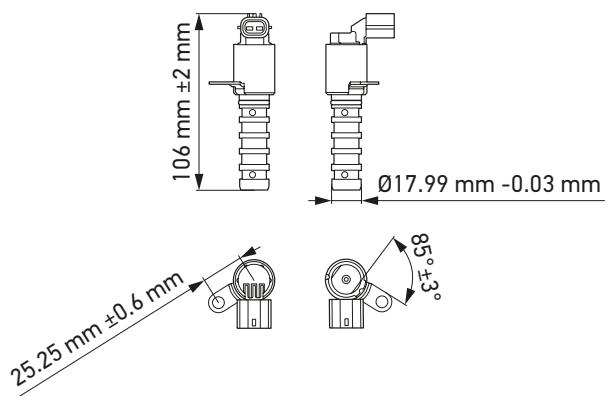
- [1] Camshaft phaser
- [2] Oil lines
- [3] Oil pressure from the engine
- [4] Camshaft adjustment control valve
- [5] Electrical connection

TECHNICAL DETAILS

Technical data

Part number	6NW 358 188-081*
Resistance (coil)	7.4 ohms \pm 0.5
Inductance (coil)	12.8 mH \pm 10 %
Flow rate (0.1 A, 0.8 kPa)	3.5 – 9 l/min
Flow rate (1 A, 0.8 kPa)	3.5 – 9 l/min
Average leakage flow max.	0.35 l/min

Dimensional sketch*



* Technical details refer to the item number mentioned.

Product features, specifications and availability are subject to change without notice.

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