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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.

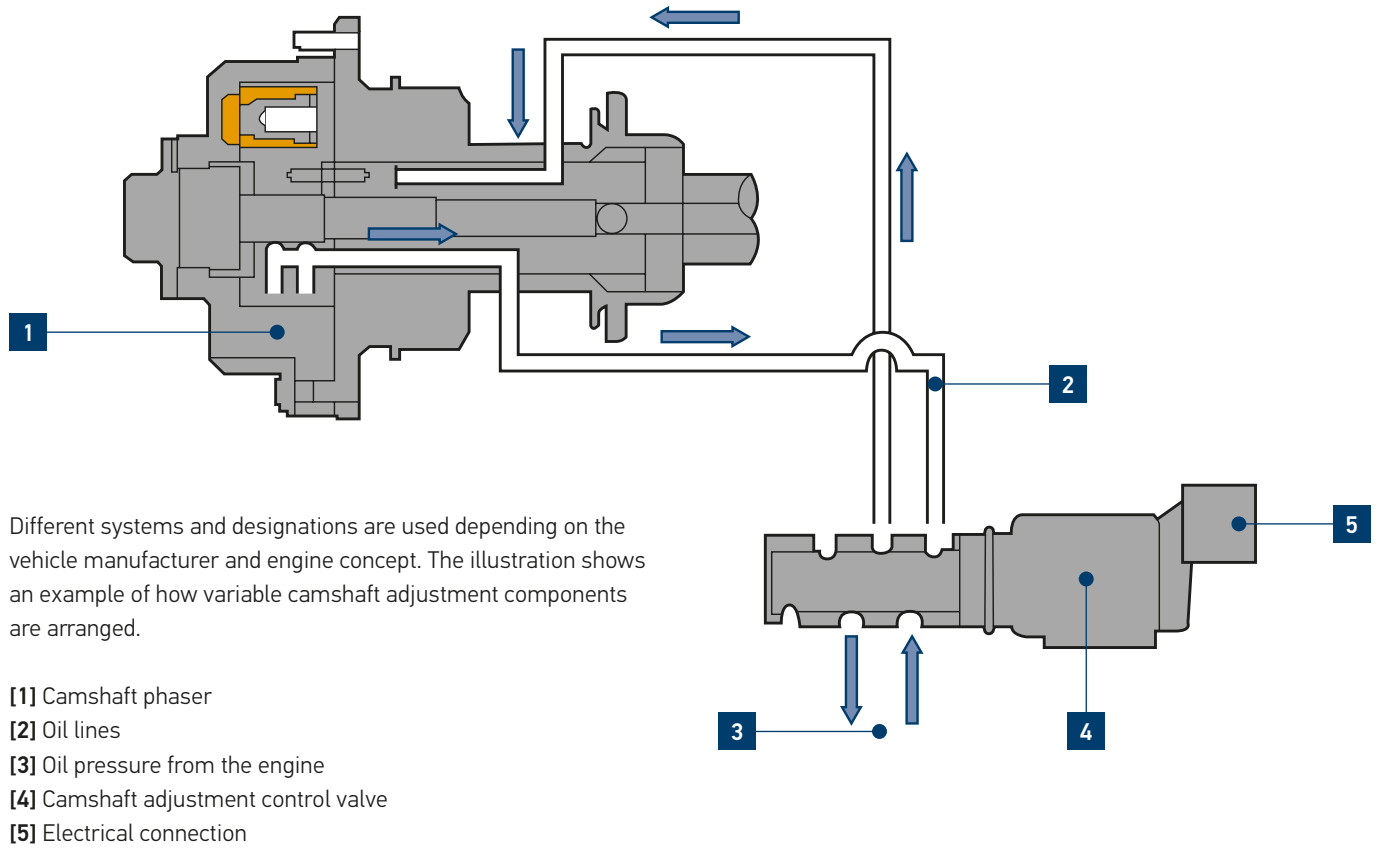
Design and function

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

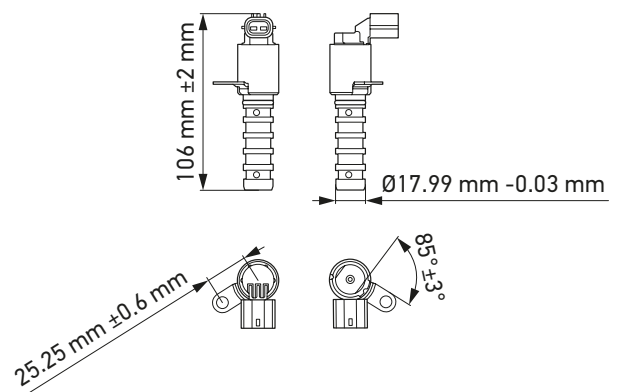


TECHNICAL DETAILS

Technical data	
Part number	6NW 358 188-081*
Resistance (coil)	7.4 ohms ± 0.5
Inductance (coil)	12.8 mH ± 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

* Technical details refer to the item number mentioned.

Dimensional sketch*



PROGRAM OVERVIEW

Manufacturer	Part number
ACURA	6NW 358 188-201
BMW	6NW 358 188-011
	6NW 358 188-251
CHRYSLER	6NW 358 188-121
	6NW 358 188-151
	6NW 358 188-161
DODGE	6NW 358 188-151
	6NW 358 188-161
	6NW 358 188-031
FORD	6NW 358 188-071
	6NW 358 188-171
	6NW 358 188-181
	6NW 358 188-021
GM	6NW 358 188-041
	6NW 358 188-141
	6NW 358 188-201
HONDA	6NW 358 188-241
	6NW 358 188-261
	6NW 358 188-081
HYUNDAI	6NW 358 188-131
	6NW 358 188-191

Manufacturer	Part number
JEEP	6NW 358 188-121
	6NW 358 188-151
	6NW 358 188-161
KIA	6NW 358 188-131
	6NW 358 188-001
LEXUS	6NW 358 188-051
	6NW 358 188-231
MAZDA	6NW 358 188-091
NISSAN	6NW 358 188-061
VAUXHALL	6NW 358 188-041
	6NW 358 188-001
	6NW 358 188-051
	6NW 358 188-101
TOYOTA	6NW 358 188-111
	6NW 358 188-211
	6NW 358 188-221
	6NW 358 188-231
	6NW 358 188-231