



# ENGINE COOLING

WATER PUMPS –  
COOLING FOR A LONG ENGINE LIFE





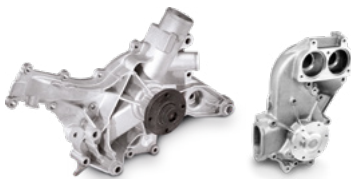
Product (PC)	Art. no (Pierburg)	Manufacturer	Engine	OE number
<b>Thermostat modules with water pumps</b>	7.10942.09.0	Mercedes-Benz	OM651 – 2.1 Diesel EU6	A 651 200 83 01
	7.05466.04.0	Stellantis Group	D20/B20 – 2.0 Diesel EU6	55578243
	7.07152.35.0	VAG Group	EA888.2 – 1.8/2.0 Petrol EU4/5	06H 121 026 BE
	7.07856.08.0		EA888.2 – 1.8/2.0 Petrol EU4/5	06H 121 026 DN
	7.07152.37.0		EA888.3 – 1.8/2.0 Petrol EU6	06L 121 012 A
	7.07152.13.0		EA211 – 1.0/1.2/1.4/1.6 Petrol EU5/6	04E 121 600 K
	7.07152.36.0		EA888.3 – 1.8/2.0 Petrol EU6	06L 121 111 H
<b>Variable mechanical water pumps</b>	7.08778.06.0	Stellantis Group	GME – 2.0 Petrol EU6	50057530
	7.08779.03.0		GME – 2.0 Petrol EU6	50057067
	7.08149.03.0		D20/B20 – 2.0 Diesel EU6	55506050
	7.10942.05.0	VAG Group	EA839 – 3.0 Petrol EU5/6	06E 121 018 N
	7.10942.01.0		EA839 – 3.0 Petrol EU5/6	06E 121 018 L
	7.10942.10.0		EA211 – 1.4 TwinCharger	03C 121 004 L
	7.10942.00.0		EA288 1.6/2.0 Diesel EU5/6	04L 121 011 P
	7.10942.04.0		EA839 – 2.5/2.8 Petrol EU5/6	06E 121 018 M
	7.07152.50.0		EA211 – 1.2 Petrol EU5/6	03F 121 004 F
	7.10942.03.0		EA288 – 1.4 TDI	04B 121 011 G
	7.10942.17.0		EA288 - 2.0 Diesel EU6	05L 121 011 E

## DEMAND-BASED COOLING FOR A LONG ENGINE LIFE



### VARIABLE MECHANICAL WATER PUMPS

With its variable mechanical water pumps, Motorservice offers another innovative state-of-the-art and up to the minute thermal management product in the aftermarket sector. Regulated and demand-based cooling saves fuel and thus reduces CO<sub>2</sub> emissions. The options for regulating the volumetric flow include electromagnetic couplings, thermostat modules with thermostat valve, electronically actuated rotary slide valves with worm gear, covering the impeller with an electro hydraulic or pneumatic adjustable ring, and pneumatic bypass flaps inside the pump module. As a result, the pumps are in line with the current trend towards smart accessories in combustion engines.



### MECHANICAL WATER PUMPS

The cooling liquid of the water pump absorbs the heat from the engine block and cylinder head and releases it into the ambient air through the cooler. Depending on their design, mechanical water pumps are located either externally on the engine in their own pump housing or are flanged directly on the crankcase and are driven by a V-belt, toothed belt or the engine directly.

Quality features of our water pumps:

- High-quality sliding ring sealing cartridge
- Maintenance-free, long-life rolling bearings
- Flow-optimised impellers made from plastic, steel, aluminium or brass
- Gaskets and O-rings are included in the scope of supply



### ELECTRICAL WATER PUMPS

Electrical water pumps make a significant contribution to emission control on modern engine designs.

A delivery rate that is not dependent on the engine speed enables demand-based cooling. This reduces the power requirements whilst also cutting down on frictional loss, fuel consumption and pollutant emissions.

Pierburg has made this technology ready for series production and is the world's first series-production supplier of electrical water pumps.



### WATER CIRCULATING PUMPS

Water circulating pumps are used where cooling or heating functions need to be performed independently of the coolant circuit. In independent heating systems, water circulating pumps are used for quickly heating the passenger compartment, for example.

The first generation alone was tried and tested millions of times over, proving itself to be a simple and robust coolant pump.

The second to fourth generations then underwent further optimisation in terms of dimensions, weight, control and hydraulic power.

**HEADQUARTERS:**

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