



PIERBURG



WATER **PUMPS**

COOLING FOR A LONG ENGINE LIFE

TAKING RESPONSIBILITY IN A CHANGING WORLD



RHEINMETALL

WATER PUMPS – COOLING FOR A LONG ENGINE LIFE

The water pump is the central component of the cooling circuit and is essential for the smooth operation of the engine. Mechanical water pumps are a well-established solution. Electrically driven coolant pumps, on the other hand, ensure that the engine is cooled as required. This reduces the power requirements while also cutting down on frictional loss, fuel consumption and pollutant emissions. Pierburg's production facilities produce more than seven million mechanical and electric water pumps for motor vehicles and commercial vehicles each year.

With its innovative portfolio, Motorservice also offers water pumps from Pierburg for applications in motor vehicles and utility vehicles. The spare parts expert is a full-range supplier in this segment: This means that customers receive everything from a single source – in premium quality and with a full guarantee for engine and cooling.



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. The pumps are used to comply with current and future emissions standards. Regulated and demand-based cooling saves fuel and reduces CO₂ emissions. The following options are available to regulate the volumetric flow: 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 toward smart accessories in combustion engines.



WATER CIRCULATING PUMP

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 example, to rapidly heat the passenger compartment.

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 optimization in terms of dimensions, weight, control and hydraulic power.



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, a toothed belt or directly by the engine.

Quality features of the water pumps:

- High-quality sliding ring sealing cartridge
- Maintenance-free, long-life rolling bearings
- Flow-optimized impellers made from plastic, steel, aluminum or brass
- Gaskets and O-rings are included in the scope of supply
- OE expertise from a technology leader



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 while 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.

For applications in battery-electric vehicles, Motorservice is further expanding its aftermarket program. Three new articles from Pierburg can be used to replace all coolant pumps used in Tesla vehicles (Model 3, S, X, Y). This is possible thanks to the all-purpose brackets included in the scope of supply. This means that 14 Tesla products can be replaced with just three coolant pumps from Pierburg. In this way, Motorservice is helping its customers make much more efficient use of their stockkeeping.

Features of these electrical water pumps for all Tesla vehicles:

- In-house development from Pierburg
- Unmistakable blue design
- Long-term validation on the test rig and in the vehicle
- Includes attachment material (brackets, seals)
- ViO (Vehicles in Operation): 4.5 million
- Pumps installed in Tesla vehicles: approx. 11.5 million



Under the Pierburg brand, we offer a comprehensive water pump product portfolio for a wide range of engines. Here are some examples of our best-sellers for passenger cars in the aftermarket.

| Product | Item no. | OE ref. no. | Manufacturer | Engines |
|-------------------------------------|----------------|-----------------|---|--|
| Variable mechanical water pumps | 7.10942.08.0 | 11 51 8 638 026 | BMW | B46 / 48 – 2.0 gasoline-driven car EU6 |
| | 7.10942.07.0 | A 270 200 00 00 | Mercedes-Benz | M270 – 1.6 gasoline-driven car EU6 |
| | 7.08149.03.0 | 55506050 | Stellantis Group | D20 / B20 – 2.0 diesel EU6 |
| | 7.10942.05.0 | 06E 121 018 N | VAG Group | EA839 – 3.0 gasoline-driven car EU5 |
| | 7.10942.10.0 | 03C 121 004 L | | EA211 – 1.4 TwinCharger EU5 |
| | 7.10942.00.0 | 04L 121 011 P | | EA288 1.6 / 2.0 diesel EU5 / 6 |
| | 7.07152.50.0 | 03F 121 004 F | | EA211 – 1.2 gasoline-driven car EU5 / 6 |
| | 7.10942.03.0 | 04B 121 011 G | | EA288 – 1.4 diesel EU5 / 6 |
| | 7.10942.17.0 | 05L 121 011 D | | EA288 evo 2.0 diesel EU6 |
| | 7.10942.21.0 | 06M 121 013 D | | EA839 – 3.0 gasoline-driven car EU6 |
| 7.11143.01.0 | 05E 121 111 AB | | EA211 evo – 1.0 / 1.5 gasoline-driven car EU6 | |
| Thermostat modules with water pumps | 7.10942.09.0 | A 651 200 83 01 | Mercedes-Benz | OM651 – 2.1 diesel EU6 |
| | 7.07152.36.0 | 06L 121 111 H | VAG Group | EA888.3 – 1.8 / 2.0 gasoline-driven car EU6 |
| | 7.07152.35.0 | 06H 121 026 BE | | EA888.2 – 1.8 / 2.0 gasoline-driven car EU4 / 5 |
| | 7.07152.08.0 | 06H 121 026 DD | | EA888.2 – 1.8 / 2.0 gasoline-driven car EU4 / 5 |
| | 7.07152.37.0 | 06L 121 012 A | | EA888.3 – 1.8 / 2.0 gasoline-driven car EU6 |
| | 7.07152.10.0 | 04E 121 600 CB | | EA211 – 1.0 / 1.2 / 1.4 / 1.6 gasoline-driven car EU5 / 6 |
| Mechanical water pumps | 7.29611.06.0 | 21 01 078 52R | Renault | K9K – 1.5 diesel |
| | 7.29530.04.0 | 77 01 478 031 | | K9K – 1.5 diesel |
| | 7.07152.21.0 | 77739779 | Stellantis Group | 1.6 / 1.8 gasoline-driven car |
| | 7.07152.28.0 | 98 034 424 80 | | EB2 – 1.2 gasoline-driven car |
| | 7.07152.55.0 | 46338675 | | 1.3 diesel |
| | 7.01984.02.0 | 55269148 | | 1.6 diesel |
| | 7.03738.03.0 | 16 093 140 80 | | DV6 – 1.6 diesel |
| | 7.02543.05.0 | 16 094 173 80 | | DV4 – 1.4 diesel |
| | 7.07152.05.0 | 03L 121 011 P | VAG Group | EA189 – 1.6 / 2.0 diesel |
| | 7.07152.12.0 | 03L 121 011 G | | EA188 – 1.9 diesel EA189 – 2.0 / 2.5 diesel |
| Electric water pumps | 7.02851.20.0 | 11 51 7 586 925 | BMW | N52 / N53 – 3.0 gasoline-driven car |
| | 7.07223.10.0 | 11 51 7 632 426 | | N54 / N55 – 3.0 gasoline-driven car |
| | 7.03665.66.0 | 11 51 7 604 027 | | N20 / N26 – 2.0 gasoline-driven car |
| | 7.02881.66.0 | 11 51 8 625 098 | | N55 – 3.0 gasoline-driven car |
| | 7.02853.20.0 | 11 51 7 586 929 | | N43 – 2.0 gasoline-driven car |
| | 7.07223.01.0 | 11 51 7 597 715 | | N20 – 2.0 gasoline-driven car |
| | 7.02478.40.0 | 11 51 7 583 836 | | N52 / N53 – 3.0 gasoline-driven car |
| | 7.06033.44.0 | 11 51 7 566 335 | | N57 – 3.0 diesel N63 – 4.4 gasoline-driven car N74 – 6.0 gasoline-driven car |
| | 7.07223.07.0 | 11 51 9 894 484 | | N52 – 3.0 gasoline-driven car |

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|-------------------------|--------------|-----------------|---------------|---|
| Electric water pumps | 7.06754.05.0 | A 000 500 04 86 | Mercedes-Benz | M 112 – 3.2 gasoline-driven car |
| | 7.07223.08.0 | 1037327-00-G | Tesla | BEV |
| | 7.07223.09.0 | 1067473-00-H | | BEV |
| | 7.07223.03.0 | 4H0 965 569 A | VAG Group | EA211 – 1.4 gasoline-driven car EA839 – 3.0 gasoline-driven car EA288 – 2.0 diesel |
| | 7.06033.31.0 | 7P0 965 567 | | EA288 – 2.0 diesel EA839 – 3.0 gasoline-driven car |
| | 7.09578.00.0 | 4KE 965 567 B | | BEV |
| | 7.06033.15.0 | 8K0 965 569 | | EA839 – 3.0 gasoline-driven car |
| | 7.02702.58.0 | 31368715 | Volvo | B 4204 – 2.0 gasoline-driven car |
| Water circulation pumps | 7.08692.00.0 | 11 51 8 616 922 | BMW | N13 – 1.6 gasoline-driven car |
| | 7.04077.34.0 | 11 51 7 629 916 | | N63 – 4.4 gasoline-driven car |
| | 7.02078.37.0 | 64 11 6 955 122 | | M47 / 57 – 2.0 / 2.5 diesel M52 / 54 – 2.0 / 2.2 / 3.0 gasoline-driven car |
| | 7.04386.10.0 | 11 51 7 630 368 | BMW / PSA | EP6 – 1.6 gasoline-driven car |
| | 7.02671.50.0 | 1 810 732 | Ford | 1.3 / 1.4 / 1.6 / 1.8 / 2.0 gasoline-driven car 1.4 / 1.6 / 1.8 / 1.9 / 2.0 diesel |
| | 7.10103.01.0 | 2 545 472 | | 2.0 EcoBlue gasoline-driven car |
| | 7.07224.01.0 | 1133851-00-G | Tesla | BEV |
| | 7.01713.28.0 | 5N0 965 561 | VAG Group | EA189 – 1.6 / 2.0 diesel |
| | 7.04071.71.0 | 5Q0 965 561 B | | EA288 – 2.0 diesel EA888.3 – 2.0 gasoline-driven car |
| | 7.02671.48.0 | 7N0 965 561 B | | EA211 – 1.0 gasoline-driven car EA111 – 1.2 / 1.4 / 1.6 gasoline-driven car EA888.2 – 2.0 gasoline-driven car EA189 – 1.6 diesel EA188 – 1.9 diesel EA189 – 2.0 diesel |
| | 7.01713.27.0 | 059 121 012 A | | EA189 – 2.0 diesel EA897 – 3.0 / 4.2 diesel |
| | 7.04071.65.0 | 06H 121 601 J | | EA888.3 – 1.8 / 2.0 gasoline-driven car EA839 – 3.0 gasoline-driven car |
| | 7.06740.12.0 | 5N0 965 561 A | | EA189 – 1.6 / 2.0 diesel |
| | 7.08002.01.0 | 5Q0 121 599 Q | | EA288 – 2.0 diesel |
| | 7.10102.05.0 | 06D 121 601 | | EA897 – 3.0 diesel EA898 – 4.2 diesel EA825 – 4.0 gasoline-driven car |
| | 7.02074.57.0 | 7H0 965 561 A | | EA188 – 1.9 / 2.5 diesel EA189 – 2.0 diesel |

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Under the BF brand, we offer a comprehensive product portfolio of water pump for a wide range of engines. Here are some examples of our best-sellers for utility vehicles in the aftermarket.

| Product | Item no. | OE ref. no. | Manufacturer | Engines |
|---------------------------------|---------------|--------------------------|----------------|--------------------------|
| Variable mechanical water pumps | 20 1609 11000 | 2104574R | DAF / Paccar | MX-11 Gen1 |
| | 20 1609 11001 | 2104577R | | MX-13 Gen1 |
| | 20 1609 11002 | 2104578R | | |
| | 20 1603 54101 | A 541 200 28 01 | Daimler Trucks | OM541 LA EU5 |
| | 20 1604 11000 | 23959595 / 74 23 959 595 | Volvo Trucks | D11 EU5 / 6 |
| | 20 1604 11001 | 22423448 | | |
| | 20 1604 11002 | 22244090 | | |
| | 20 1604 13001 | 23959580 / 74 23 959 580 | | |
| | 20 1604 13002 | 23959585 / 74 22 479 364 | | |
| | 20 1604 13003 | 23959591 / 74 23 959 591 | | |
| | | | | |
| Mechanical water pumps | 20 1609 13001 | 1828162 | DAF / Paccar | MX 265 / 300 / 340 / 375 |
| | 20 1603 90400 | A 904 200 49 01 | Daimler Trucks | OM 904 / 906 |
| | 20 1603 45700 | A 457 200 29 01 | | OM 457 |
| | 20 1603 90401 | A 904 200 51 01 | | OM 904 / 906 / 924 / 926 |
| | 20 1605 02900 | 0416 2751 | Deutz | TCD 2.9 |
| | 20 1602 26760 | 51.06500.6694 | MAN | D 2066 / 2676 |
| | 20 1602 28760 | 51.06501.0300 | | D 2866 / 2876 |
| | 20 1602 38760 | 51.06500.7130 | | D 2066 / 2676 |
| | 20 1607 09001 | 2310615 | Scania | DC 09 / 13 |
| | 20 1604 13000 | 22918427 | Volvo Trucks | D9 / 11 / 13 / 16 |
| | 20 1604 12002 | 20431135 | | D12C |

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