



PIERBURG



PRODUCT **RANGE**

VACUUM PUMPS
FOR SAFETY AND COMFORT

TAKING RESPONSIBILITY IN A CHANGING WORLD



RHEINMETALL

VACUUM PUMPS

RELIABLE VACUUM FOR A LARGE NUMBER OF CONTROL ELEMENTS

System supplier Pierburg is a leading OE manufacturer of vacuum pumps for the international automotive industry. As an OE manufacturer, Pierburg boasts decades of expertise in development and manufacturing, and its innovative designs have made significant contributions to the state of the art. Motorservice is a world-leading supplier of vacuum pumps in the aftermarket, and offers high availability and consistently first-class quality, even in the face of increasing market demand.

Vacuum pumps produce the required vacuum for the brake boosters, as well as for controlling the functions of the central locking system, air conditioning, automatic transmission unit, emission control systems and other control elements.

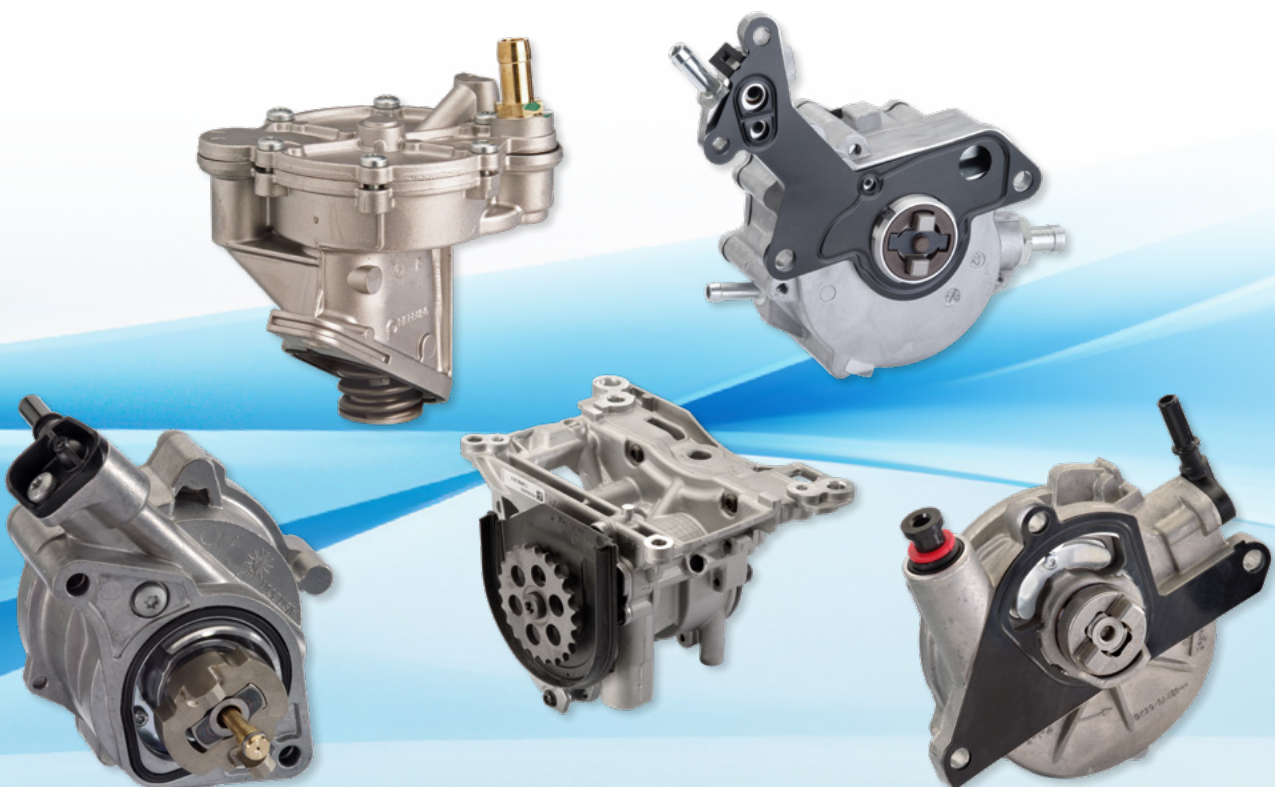
With the help of a vacuum, high adjusting forces can be generated in a small installation space. Vacuum pumps are installed in vehicles that do not have sufficient vacuum. Conventional diesel engines are fitted as standard with a vacuum pump, as they have no throttle valve, and cannot therefore generate any pressure difference. Vacuum pumps are also increasingly found in modern petrol engines, where there is insufficient vacuum in the intake manifold after the throttle valve.

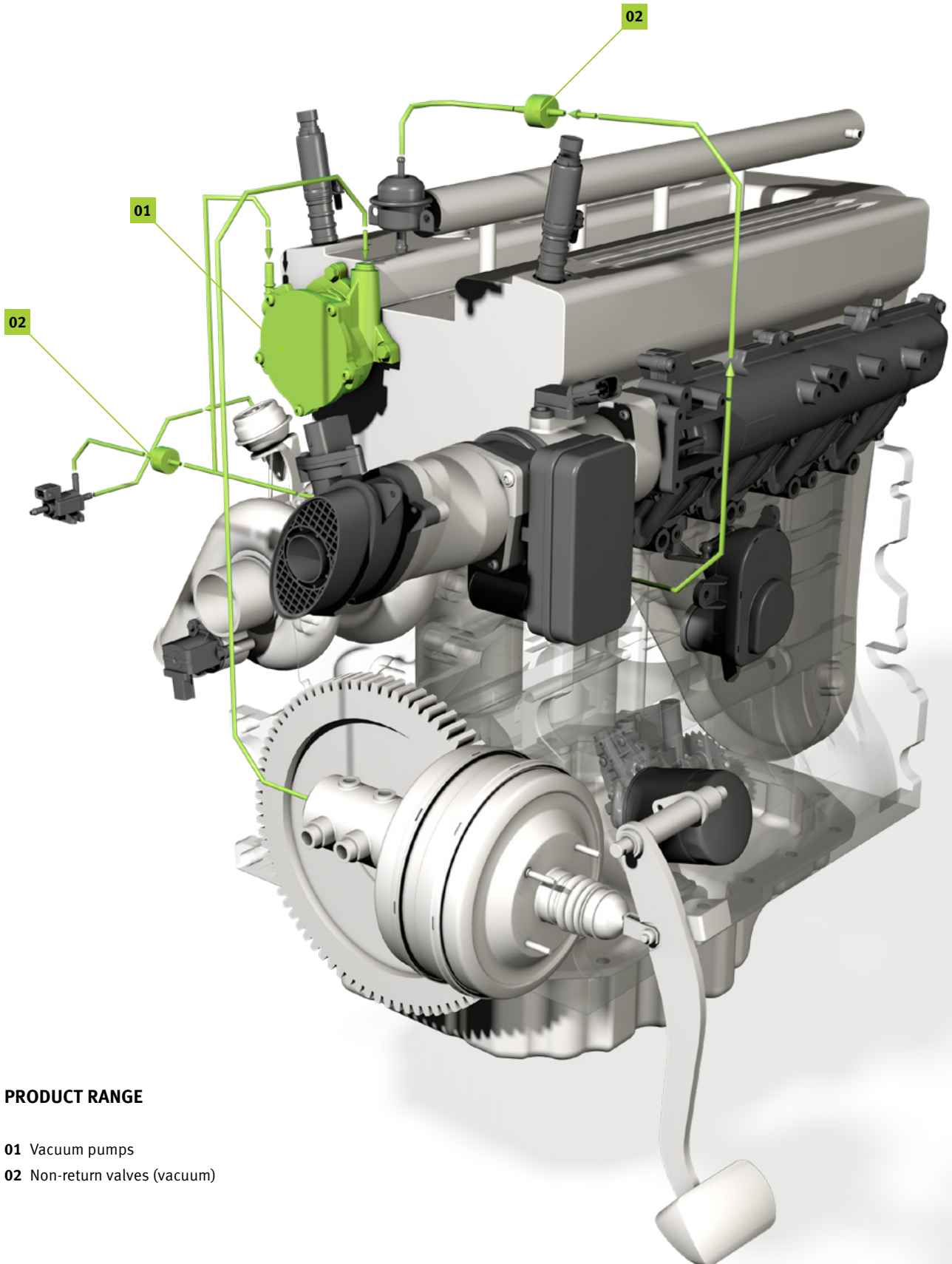
Product range

Motorservice offers a comprehensive product range of mechanical vacuum pumps, tandem vacuum/oil or fuel/vacuum pumps and electric vacuum pumps. Over 190 articles cover more than 160 million passenger cars and light commercial vehicles.

Pierburg quality

Pierburg is a specialist in the fields of emission control, air supply and throttle valves. Decades of experience, an innovative approach and recognised expertise in all aspects of engines give Pierburg the ideal background to systematically develop and manufacture future-oriented components, modules and systems.





PRODUCT RANGE

- 01 Vacuum pumps
- 02 Non-return valves (vacuum)

MECHANICAL VACUUM PUMPS

ARE FOUND IN MANY VEHICLES

Mechanical vacuum pumps can be driven by means of cams, tappets, chains, belts, or cam discs. Pumps that move a piston or diaphragm back and forth and generate a vacuum are well established in the field.

A newer development is vane pumps with a rotary drive. Here, a rotor with one or more vanes forms compartments, the size of which varies during the work cycle.



We offer a comprehensive product portfolio covering a large number of engines. Here are some examples of our best-sellers in the aftermarket.

Item no.	Manufacturer	Engines	OE ref. no.* (partial list)	Vehicles worldwide
7.01188.22.0	Jaguar, Land Rover	3.0–5.0i	LR082226	1.0 million
7.05451.07.0	Ford	2.0 l EcoBlue	GK2Q-2A451-AE	1.9 million
7.22300.69.0	VW	2.4 l TDI	076 145 100	1.0 million
7.24807.74.0	Ford	1.0 l EcoBoost	CM5G-2A451-GB	2.3 million
7.24807.79.0	Mercedes-Benz	3.0 l OM642	A6422300865	0.5 million
7.01555.07.0	Alfa Romeo, Fiat, Jeep	1.4 l	55270032	0.6 million
7.01341.03.0	Audi, Seat, Škoda, VW	1.8–2.0 l TSI/TFSI	06H 145 100 AK	5.1 million
7.24808.00.0	Ford	1.8 l TD	93BB-2A451-AD	1.7 million
7.01490.09.0	BMW, Citroën, Peugeot	1.4–1.6 l VTI	11 66 7 570 813/4565 77	1.6 million
7.24807.39.0	Mercedes-Benz	3.0 l OM642	A6422300165	0.6 million
7.24807.22.0	BMW	2.0 l 16 V	11 66 8 482 284	0.9 million
7.00437.02.0	BMW	3.0 l M57D30	11 66 7 791 232	1.3 million
7.29023.04.0	Alfa Romeo, Fiat, Opel, Suzuki	1.6–2.4 l JTD	46343257/545456	2.8 million
7.02551.19.0	BMW	2.0 l N20B20	11 66 7 640 279	1.9 million
7.24807.38.0	Freightliner, Mercedes-Benz	3.0 l OM642	A6422300065	0.7 million
7.24808.12.0	Audi, Seat, Škoda, VW	2.0 l TDI	03L 145 100 F	7.9 million
7.24807.62.0	Volvo	2.0–2.4 l D5204/D5244	31375106	1.0 million
7.04230.02.0	Citroën, Ford, Peugeot	2.2 l TDCI	BK2Q-2A451-FB/1680791880	1.6 million
7.02551.26.0	Freightliner, Mercedes-Benz	2.1 l CDI OM651 Euro4	A6512300565	4.9 million
7.04303.05.0	VW	2.0 l TDI	03L 145 100 H	0.8 million
7.02551.16.0	Mercedes-Benz	1.8 l M271	A2711800000	0.8 million
7.04225.05.0	Ford, PSA	2.0 l GT BlueHDI	9674192280	2.2 million
7.24807.30.0	Audi, VW	2.5 l RS	07K 145 100 H	1.4 million
7.24807.20.0	Audi, Seat, Škoda, VW	2.0 l TFSI	06D 145 100 H	1.1 million
7.24807.41.0	Mercedes-Benz	2.5–3.5 l M272	A2722300065	1.4 million
7.24807.08.0	Mercedes-Benz	2.1–2.2 l OM646	A6462300165	1.5 million
7.01219.17.0	Porsche	3.0–4.8 l	948 110 050 08	0.4 million
7.04749.02.0	Fiat	1.6–2.0 l	46342809	1.4 million
7.24807.29.0	Audi, Seat, Škoda, VW	2.0 l TFSI	06J 145 100 P	2.3 million
7.03799.05.0	Ford	2.2 l TDCI	BK3Q-2A451-FC	0.5 million

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TANDEM PUMPS, VACUUM/OIL

RELIABLE LUBRICATION

While the single-vane pump generates the vacuum required for the brake booster, the oil pump ensures an adequate oil supply. If the oil pump is located on the cylinder head, the connected G-rotor oil pump pumps excess oil from the cylinder head into the crankcase sump. Alternatively, these oil and vacuum pumps can also be installed in the crankcase sump to draw in the oil and supply the engine with sufficient oil for lubrication.



Your benefits at a glance:

- Pierburg is an OEM for oil and vacuum pumps.
- Motorservice is a leading supplier of oil and vacuum pumps in the aftermarket.
- High availability

Item no.	Manufacturer	Engines	OE ref. no.* (partial list)	Vehicles worldwide
7.01784.10.0	Land Rover	4.4 l D	LR 083155	0.08 million
7.02551.09.0	Fiat, Iveco, PSA	2.3 l F1AE/F1AG	504389092	1.8 million
7.02551.22.0	Buick, Chevrolet, GMC	3.6 l	12687893	0.9 million
7.02551.47.0	Fiat, Iveco, PSA	3.0 l F1AC/F1CE	5801851153	0.8 million
7.02551.56.0	Fiat, Iveco	2.3 l F1AE/F1AG	5802582771	1.4 million
7.02551.57.0	Fiat, Iveco	2.3 l F1AE	5802707036	0.4 million
7.02551.58.0	Iveco	2.3 l F1AG	5802804476	0.1 million
7.02551.63.0	Chevrolet, GMC	2.8 l	55489569	0.1 million
7.04483.16.0	Land Rover	3.0 l LION V6	LR104350	0.6 million
7.24808.24.0	BMW	3.0 l N57D30C (N57S1)	11 41 8 507 325	0.1 million
7.24808.25.0	BMW	3.0 l N57D30A (N57) (up to 31/08/2012)	11 41 7 805 316	0.5 million
7.24808.26.0	BMW, Mini, Toyota	1.6–2.0 l N47C	11 41 7 823 007	0.6 million
7.24808.27.0	BMW	3.0 l N57D30A (N57TU) (from 01/09/2012)	11 41 7 823 009	0.7 million
7.24808.28.0	BMW	2.0 l N47D20	11 41 8 508 629	0.2 million
7.24808.29.0	BMW	2.0 l N47D20 (N47TU)-N47D20C	11 41 8 518 405	2.3 million
7.24808.30.0	BMW	2.0 l N47D20A/C (N47N)	11 41 7 810 451	1.7 million
7.24808.31.0	BMW	2.0 l N47D20C (N47N)	11 41 7 810 823	2.4 million
7.24808.32.0	Audi, Seat, Škoda, VW	1.6–2.0 l TDI	04L 145 208 H	6.5 million
7.24808.33.0	Audi	2.0 l TDI	04L 145 208 AA	0.7 million
7.24808.34.0	Audi, Seat, Škoda, VW	1.4 l TDI	04B 145 208 G	0.4 million
7.24808.35.0	Audi, Seat, Škoda, VW	1.6/2.0 l TDI	04L 145 208 D	3.1 million
7.24808.36.0	Audi	2.0 l TDI	04L 145 208 J	0.6 million
7.24808.37.0	VW	2.0 l TDI	04L 145 208 P	1.4 million
7.24808.38.0	Škoda, VW	2.0 l	04L 145 208 S	0.1 million
7.24808.39.0	Audi, Seat, Škoda, VW	1.6–2.0 l TDI	04L 145 208 T	6.5 million

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TANDEM PUMPS, FUEL/VACUUM

FOR EASY MOUNTING

In "tandem pumps", vacuum pumps are combined with other supply pumps on a common axle. In the fuel/vacuum combination, they take on the functions of mechanical vacuum pumps and are also used for fuel feed.

Your benefits at a glance:

- Motorservice is a leading supplier of fuel and vacuum pumps in the aftermarket.
- High availability
- Replacement in line with current market value



Item no.	Manufacturer	Engines	OE ref. no.* (partial list)	Vehicles worldwide
7.02551.12.0	Audi, Mitsubishi, Seat, Škoda, VW	2.0 l TDI	03G 145 209 D, MN980423	2.1 million
7.02551.20.0	Audi, Ford, Seat, Škoda, VW	1.9 l TDI	038 145 209 Q, 6M21-2A451-BA	8.0 million
7.02551.23.0	VW	2.5 l TDI	070 145 209 J	0.5 million
7.02551.24.0	VW	1.9 l TDI	038 145 209 P	0.4 million
7.02551.25.0	VW	5.0 l TDI	07Z 145 209 D	0.02 million

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ELECTRIC VACUUM PUMPS

ON DEMAND, POWERFUL, MAINTENANCE-FREE

Motorservice has added seven electric vacuum pumps from Pierburg to its product range. One reason for developing electric vacuum pumps is to maintain brake boosting in downsized petrol engines.

They can be used to replace 45 OE pumps. This corresponds to a market potential of almost 32 million vehicles in all common makes of vehicle.

The high compatibility is achieved by omitting vehicle-specific holders: Only the actual vacuum pump is replaced.

Your benefits at a glance:

- Full brake boosters whenever needed
- Can be switched off, i.e. on demand
- This saves fuel and reduces emissions in comparison to mechanical vacuum pumps
- Powerful
- Maintenance-free
- Robust design
- Superb decoupling due to rubber bearings, i.e. lower structure-borne noise and therefore very quiet
- Enables advanced start-stop coasting
- Also suitable for hybrid and fully electric vehicles



Item no.	Manufacturer	Engines	OE ref. no.* (partial list)	Vehicles worldwide
7.02551.40.0	Chevrolet, Opel, Renault, Smart, Volvo	0.9–4.0 l	34332283333, 31317445, 5Q0612175	5.7 million
7.02551.41.0	Buick, GM, Opel	1.0–3.6. l	23258870, 13371808, 22819443	5.5 million (US 3.7 million)
7.02551.42.0	Alfa Romeo, Fiat, Opel	1.4–3.2 l	0545051, 13397380, 50513244	0.3 million
7.02551.43.0	Audi, Opel, Saab, Seat, Škoda, VW	1.0–3.2 l	0545058, 12822387, 1K0612181F	14.4 million
7.02551.44.0	Audi, Porsche, Škoda, VW	1.8–6.3 l	8E0927317H	1.0 million (US 0.2 million)
7.07254.03.0	Audi, Seat, Škoda, VW	1.5 l TSI	5Q0612181, 2K5612175, 5N0612175	3.6 million
7.08695.05.0	Audi, Seat, Škoda, VW	1.5 l TSI	5Q0612181B	0.6 million

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