

# Water pump

suitable for: MAN, VW

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MAN



360° view

Water pumps ensure coolant circulates in the cooling circuit according to guidelines and thus prevent the engine from overheating. They are driven by the crankshaft via a V-belt or V-ribbed belt that runs on a belt pulley or vibration damper.

The operating life of water pumps heavily depends on the quality of the coolant, the state and functionality of the aggregates used as well as proper installation.

The water pump shaft is driven via the belt pulley. It is manufactured from high-quality rolling bearing steel and is used in many pumps as an internal race for the rolling bearings. The water pump housings are optimally tailored to

the forces, speeds and revolutions of the belt drive.d functionality of the aggregates used as well as proper installation.

Slide ring seals form the core of each water pump; they have to be thoroughly high-quality to avoid leaks. The placement of the DT Spare Parts slide ring seals is pressed into the water pump housing and prevents unscrewing and loosening via a specially applied sealant. Springs adjusted to the seal guarantee that the silicone carbide slide ring washers exert the correct contact pressure.

The impellers in DT Spare Parts water pumps are optimally constructed to achieve a high coolant flow capacity and thus also a good degree of efficiency. The earlier standard cast or steel impellers are replaced in modern application by plastic impellers (PPX, X-TEL). The lower weight of this impellers avoids the formation of voids in fluids (so-called 'cavitation') and minimises the bearing load.

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