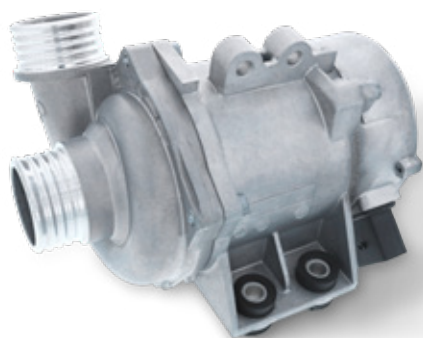




Brand of NTN corporation

ELECTRIC WATER PUMP



Choosing SNR products, you will have:

- Guarantee of an **OE water pump**
- A **range covering main brands** on the European car park
- **Expertise from specialists & digital service**

NTN is aware of the electrification of the automotive market and the growth of hybrid and electric vehicles, NTN is launching its brand new range of 5 main electric water pump references.

The SNR range covers 60% of the car park and are the exact replacement of OE pumps.

Advantages of electric water pumps

- **Consumption reduction:** On/off, less friction on the belt & increased cooling efficiency
- **Control & self protection with mechatronics:** PWM, LIN (Local Interconnect Network) or CAN (Controller Area Network) communication protocols
- **Engine life increase:** No tension on the belt and chain
- **Engine Optimisation:** No constraints on the design of the engine (WPE independent of the belt/chain)



Did you know?

NTN MECHATRONICS: performance through innovation

Since the invention in the 1980s of ASB sensor, SNR's first application with this technology, NTN has never stopped innovating its mechatronics for the automotive sectors.



SNR Electric Water Pumps

- Electric water pumps are composed of **aluminum housing** that protects the rotor bearing and the starter as well as controller.
- The impeller inside is made of **Polyphenylene Sulfide (PPS)** which is a high-performance, engineering thermoplastic and has the advantage to be high temperature resistance and has excellent electrical insulation properties
- The pumps are made of **high quality and high resistance components** in order to ensure the optimal temperature of the more and more complex engines of all modern vehicles (ICE / HEV / PHEV / BEV).



Range specifications

Car park coverage

SNR Electric water pump range covers 60% of the car park equipped of electric main water pumps.

SNR PNs	Applications
WPE001	TOYOTA 1.8 Hybrid : Auris, Auris Break, Prius, Prius plus / 1.5 Hybrid : Yaris, Yaris Hatchback van
WPE002	BMW: 1',2', 3', 3' Touring, 3' Grand Turismo, 4' break, Gran Coupe, 5', 5' Touring, X1, X3, X4, Z4 Roadster
WPE003	TOYOTA : 1.8 Hybrid : C-HR, Corolla, Prius, Prius PHV
WPE004	BMW: 1', 3', 3' Touring, 5', 5' Touring, 6', 7' X3, X4, X5, X6 Z4 Roadster
WPE005	BMW: 1', 3', 5', 6', 7', X1, X3, X5, Z4

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operations and directions for use



Water pump:

how to apply gasket sealer correctly?



Best practices

when doing a timing system

