

SKF water pump seals

Understanding dynamic water pump seals

The dynamic seal separates the “wet and dry” area of the water pump. It is important to understand that in order to function correctly, the seal needs the correct and clean coolant. Dirt or other small particles can harm it and drastically reduce the life span of the water pump.

During normal operation, the seal can sometimes lose a very small amount of liquid due to evaporation. Some pumps are therefore fitted with “evaporation” tanks to catch this liquid.

It is absolutely normal that seals on a newly fitted water pump may leak slightly at the drain hole. This minor leakage should stop within a few minutes or kilometers. Any further leakage is considered to be problematic and is probably caused by wrong or polluted cooling fluid.



SKF dynamic silicon carbide (SiC) seals

For knowingly problematic engines, our pumps include the latest **silicon carbide seal technology** to ensure optimal protection against contamination and resistance to extreme temperatures. SiC seals, compared to traditional sealing solutions for water pumps, are less sensitive to contaminated conditions, dry running and thermal shock. To protect these seals from unnecessary contamination, do not use any paste on water pumps that include a gasket or an O-ring static seal.

The SKF water pumps that include SiC dynamic seals cover top European applications, are made in Europe and are fully tested after manufacturing.

Technical performance benefits:



Resistance to thermal shock and dry-running



Tolerance to extreme temperatures



Noise reduction



Self-lubricating seal for lower friction torque



Resistance to polluted conditions



Longer service life