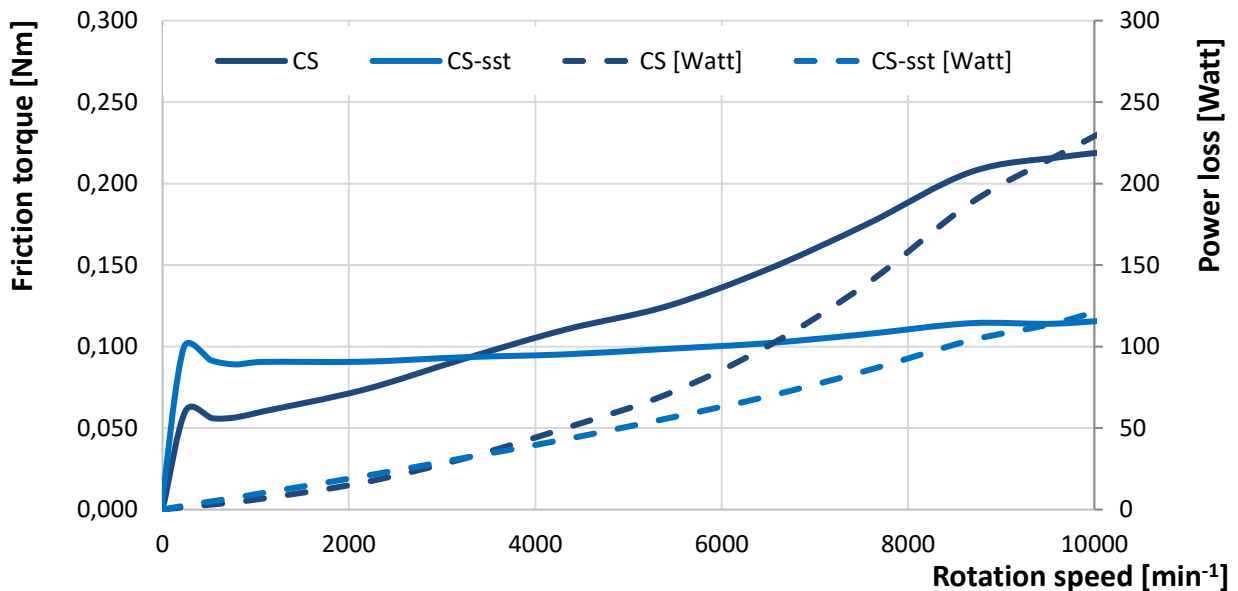




## Compact Seal & Compact Seal SST

- High reliability / high durability
- Global standard
- Good stability in peak pressures
- Dedicated material development
- SST: oriented rotation direction reduces noise level



The compact seals for automotive water pump applications have a proven history of high-quality and field performance. The sealing materials made of EKK's proprietary carbon components and high grade silicon carbide provide high resistance to heat, wear and corrosion, with an excellent sealing performance.

The design of the compact seal SST (Silent Sealing Technology) allows for better peak pressure absorption. The seal has an oriented rotation direction, which means that the rotation direction can be configured (clockwise, counter clockwise). This feature decreases wear of the sliding surfaces in start/stop position and reduces the noise level. Due to the use of porous SiC the seal improves lubrication, and also contributes to less friction and noise.

## Operation conditions:

Specification	Dimension	Unit
Medium	Coolant / water solution	[-]
Coolant mixture	40 - 60	%
Pressure - nominal	0 up to 0,2	MPaG
Pressure - peak	-0,1 up to 0,3	MPaG
Temperature - nominal	-20 up to +120	°C
Temperature - peak	-40 up to +140	°C
Speed - nominal	0 – 7.000	Min <sup>-1</sup>
Speed - peak	12.000	Min <sup>-1</sup>
Sliding materials	Hard carbon / SiC	[-]
Elastomer materials	HNBR	[-]



## Assembly dimensions:

Specification	Abbr.	Range	Unit
Shaft diameter	D <sub>s</sub>	12	mm
Shaft roughness		6,3	µmRa
Shaft hardness		>50	HRC
Bore diameter	D <sub>b</sub>	30	mm
Bore roughness		1,6	µmRa
Total height	H <sub>2</sub>	13	mm
Mounting depth	H <sub>1</sub>	5,5	mm

