

CONCEPT AND METHOD OF FUNCTIONING

Shaft sealing to seal against the ingress of foreign particles from the surroundings into the medium being pumped and also to seal against the exit of the pumped medium into the surroundings. They are used to seal the gap between a rotor or shaft which rotates relative to a stationary housing by means of seals located after each other in the axial direction of the rotor. The installation takes place in a split housing. In order to seal and isolate the pumped medium the use of a barrier gas or barrier grease is preferred.

In the cases of a pumped medium which is free of solid particles a return of the medium into the circulation cycle by means of a vacuum system is possible.

APPLICATIONS

Shaft seals of type AK 800 are completely preassembled units which have been developed for high pressure applications up to 140 bar for steam turbines, turbo compressors, thickeners. AK 800 seals are used in machines with rotating shafts such as turbo machines.

APPLICATION AREA

Material:	A10K
Operating temperature:	max. 225° C
Operating pressure:	-0,9 to 140 bar
Circumferential velocity:	max. 150 m/s
Shaft diameter:	20...100 mm
Radial gap:	1 mm

FEATURES

Because of the design concept of a minimal play on contact locations once the initial running in wear has taken place, gap sealing with minimal leakage and by this means a highly effective sealing effect is achieved. In comparison to contact seals higher sliding velocities and higher pressures can be achieved. The seal is a one piece seal and is comprised of two components - a carbon ring and a band in which the carbon ring is a shrink fit. This makes the seal suitable for applications with high differential pressures.

SCOPE OF DELIVERY

Single part seal with Bandage:	Impregnated carbon, Titanium
Housing:	Stainless steel, Titan, Hastelloy, PTFE

