KSB SupremeServ







Single-source supplier:

your partner for pumps, valves and service

We are your partner for the entire product life cycle. Customized service solutions, rapid reaction times and an extensive product portfolio – no other competitor offers a comparable range of products and services.



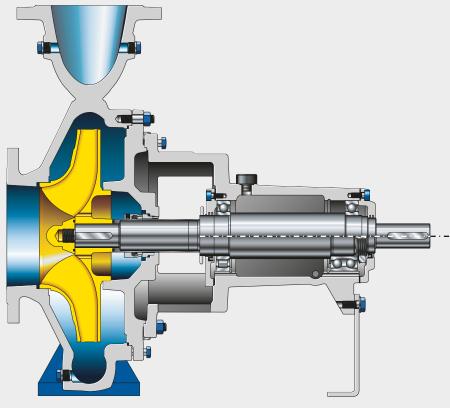
From initial consultancy to planning, installation, operation, maintenance and comprehensive service concepts, we are on hand as your reliable partner to provide solutions for every situation and requirement – over the entire product life cycle. We offer service and spare parts solutions as part of our comprehensive customer care – not only for KSB pumps and valves but also for all sorts of rotating equipment of all makes.

KSB mechanical seals

KSB's range of tailored spare parts services plays a major role in the service portfolio. One of these topics is KSB mechanical seals. Impressing with a robust design, they offer service-friendly installation and optimal integration in the seal chamber. Tried and tested quality.



Sealing solutions 03



Tailored sealing for every setting

High operating pressures, extreme temperatures and aggressive fluids place the highest and most diverse demands on a seal, thereby influencing the operating reliability of the pump and system. As your one-stop contact, KSB offers a complete package of individual sealing solutions for every application – ensuring maximum safety and reliability.

KSB offers the full range of services, whether it's providing pumps and valves, all-in system solutions and services or spare parts solutions that cover the system's entire life cycle. One highlight of our comprehensive range are our own, low-wear mechanical seals which, together with the pump, form a perfectly matched and optimised system. Our customers so benefit from extended service lives and less maintenance costs thanks to high-quality and robust seal arrangements and to the optimisation of the entire pump system.





Perfect sealing solutions for KSB standardised chemical pumps

KSB offers a wide range of perfectly fitting mechanical seals for any kind of application of these pumps. The portfolio includes standardised seals according to EN 12756 for low and middle requirements as well as single acting and double acting cartridge seals for high end applications.



4C / 4CN

for CPK / CPKN	
Design	Single mechanical seal
Туре	Stationary, balanced
Operating pressure	Up to 25 bar dynamic Up to 37.5 bar static
Temperature	-20 °C to 150 °C



4CP

for CPK / CPKN / MegaCPK	
artridge seal	
ry, balanced	
bar dynamic 7.5 bar static	
°C to 150 °C	



4CPD

for CPK / CPKN / MegaCPK	
Design	Double cartridge seal
Туре	Stationary (inboard) Dynamic (outboard) Double pressure balanced
Operating pressure	Up to 25 bar dynamic Up to 37.5 bar static
Temperature	-20 °C to 150 °C



5A and 5B

for all KSB type series with a standardised seal to EN 12756

Design	Single mechanical seal
Type 5A Type 5B	Dynamic, unbalanced Dynamic, balanced
Operating pressure	5A: Up to 16 bar dynamic 5B: Up to 25 bar dynamic Up to 37.5 bar static
Temperature	-30 °C to 220 °C

Also available with pumping screw and as double



The mechanical seal type series 5KSCB2 is available as single cartridge seal, single cartridge seal in quench design and double cartridge seal. The seals are designed for universal use and fit perfectly into the installation spaces standardised in the chemical industry, e. g. MegaCPK, CPKN and CPK. The blue positioning lug replaces the common assembly fixtures of a cartridge seal. It ensures the optimum pre-loading of the seal and protects the seal from damage during transport. The cartridge unit can be installed and removed quickly and easily. This reduces the downtime for servicing and, with that, the maintenance costs.

5KSCB2S

for CPK / CPKN / MegaCPK	
Design	Single cartridge seal
Туре	Dynamic, balanced
Operating pressure	Up to 25 bar dynamic Up to 37.5 bar static
Temperatur	-5 °C to 250 °C

Mechanical seal also available in quench or double arrangement.



Perfect sealing solutions for water, hot water and heat transfer services

The mechanical seals for water, hot water and heat transfer applications are especially designed for the relevant KSB pump type series. Together with the pump the seals form a perfectly matched and optimized system. This ensures longer service lives and an improved system availability.



4EYS

for Etanorm SYT	
Single mechanical seal*	
Dynamic, unbalanced	
Up to 16 bar, dynamic Up to 24 bar, static	
Up to 350 °C	

^{*}In tandem arrangement also for use as double seal



4EB

for Etanorm-R / Etaline-R	
Design	Single mechanical seal of modular design
Туре	Stationary, balanced
Operating pressure	Up to 25 bar, dynamic Up to 37.5 bar, static
Temperature	-30 °C to 140 °C



4ES

for Etanorm-R	
Design	Single cartridge seal
Туре	Stationary, balanced
Operating pressure	Up to 16 bar, dynamic Up to 24 bar, static
Temperature	-30 °C to 140 °C



4HL

for HPK-L / Etanorm RSY	
Design	Single mechanical seal
Туре	Dynamic, balanced
Operating pressure	Up to 40 bar, dynamic Up to 60 bar, static
Temperature	-10 °C to 130 °C



4HLQ

for HPK-L	
Design	Single mechanical seal with quench system
Туре	Stationary, balanced
Operating pressure	Up to 16 bar, dynamic Up to 24 bar, static
Temperature	0 °C to 100 °C

Mechanical seal in similar design also available for Etanorm RSY



4RPQ

for RPH	
Design	Single cartridge seal
Туре	Stationary, balanced
Operating pressure	Up to 40 bar, dynamic Up to 60 bar, static
Temperature	-20 °C to 80 °C

SDPN16, KWT51, RWT23 07

KSB auxiliary systems

KSB is able to provide the full range of seal auxiliary systems for all kinds of application. The KSB thermosyphon systems, quench systems and heat exchangers supply the mechanical seal with clean and cool fluid in order to increase the seal's life time.



Thermosyphon System

The SDPN16 system supplies double acting mechanical seals with pressurized barrier fluid or unpressurized buffer fluid (Plan 53A or 52). It is used for applications where leakage to atmosphere must be minimized, collected or completely ruled out.

Quench System

The KWT51 system is used to provide an atmospheric quench to single acting mechanical seals. It is used for services where leakage to atmosphere must be collected or diluted.

Heat exchanger

The RWT23 tube in tube heat exchanger is used to cool the pumped fluid in the seal chamber of single or double acting mechanical seals. It prevents the vaporization of the pump fluid between the seal faces. This markedly increases the seal life.





SDPN16

Pressure	Up to 16 bar
Temperature	-60 °C to 200 °C
Total volume	8 litres

KWT51

Pressure	Unpressurised
Temperature	-40 °C to120 °C
Total volume	3 litres

RWT23

Process side	Up to 50 bar / -29 °C to 270 °C
Cooling	Up to 20 bar /
water side	-29 °C to 100 °C





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Your local KSB representative:

