STASSKOL

DYNAMICSEAL SDK 80

Shaft seals

Standard and custom solutions

Especially designed to suit the specific application

In order to meet the specific application conditions the split housing is available in various designs using various materials. Thereby the medium is sealed off from the atmosphere at a pressure range from 0,1 bar up to 150 bar.

DYNAMICSEAL SDK 80

Overview of types

One-part sealing rings with titanium shells

Standard	Special construction	Comment
SD80	**SD80s**	made of carbon / titanium

Chamber design

Standard	Special construction	Connections
SDK80-S	**SDK80s-S**	buffer gas
SDK80-A	**SDK80s-A**	suction drain
SDK80-AS	**SDK80s-AS**	suction drain, buffer gas
SDK80-O	**SDK80s-O**	without connections

Applications and Materials

Applications:
- Turbo compressors
- Turbines

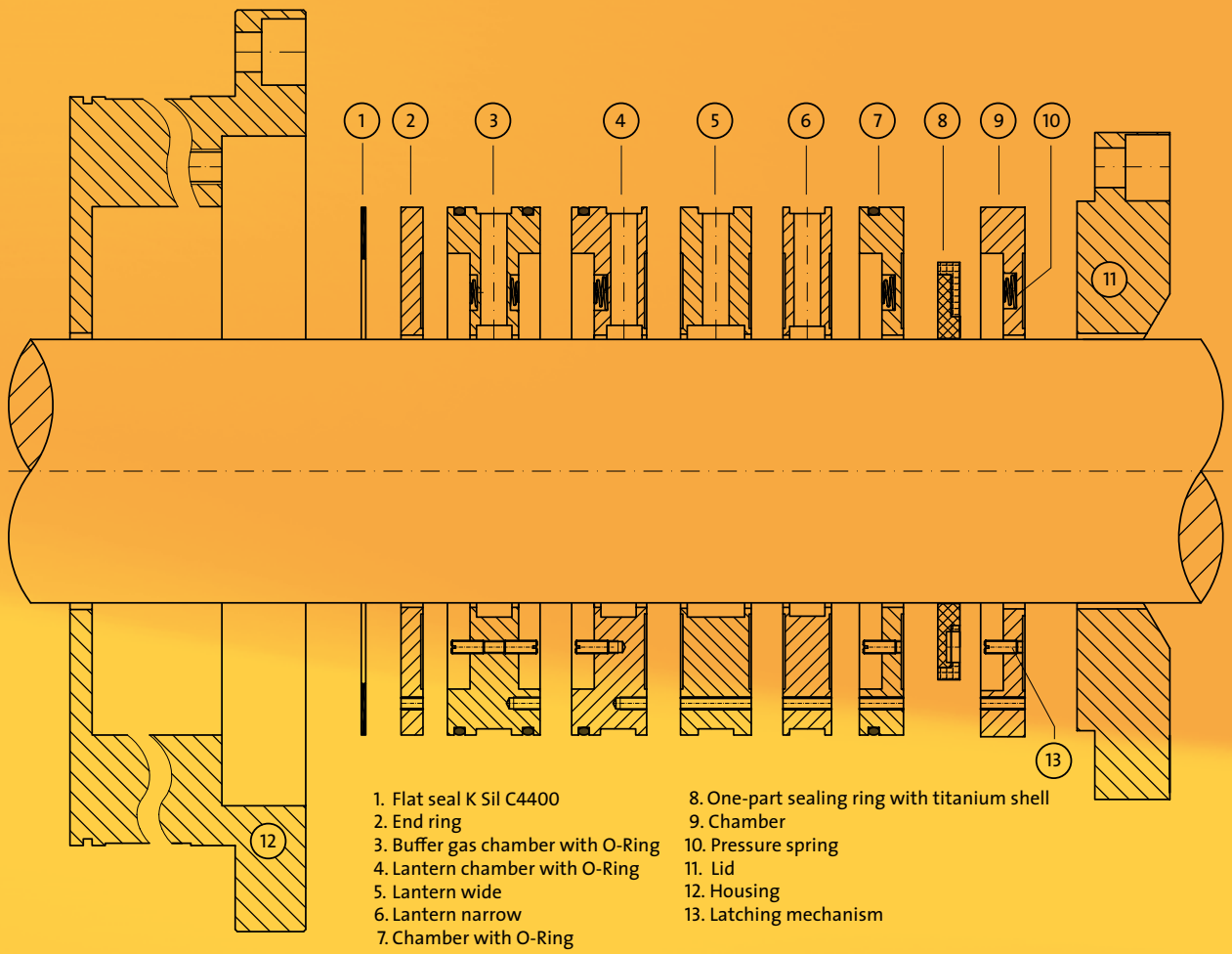
Industries:
- Chemical/petrochemical
- Power plants
- Refineries

Material
Sealing rings made of **SK10K** with titanium shells for applications up to 600°C.

Housings made of 1.4021, 1.4571, Inconel®, Hastelloy® or Titan.
Springs and locking devices made of 1.4571, Inconel®, Hastelloy® or Titan.

Pressure design 0.1 bar to approx 150 bar
Permissible average pressure difference per effective sealing ring from 0.1 bar to 19 bar, depending on sliding speed and shaft diameter. Radial play between shaft and chamber of 1 mm.

Modular design principle



1. Flat seal K Sil C4400
2. End ring
3. Buffer gas chamber with O-Ring
4. Lantern chamber with O-Ring
5. Lantern wide
6. Lantern narrow
7. Chamber with O-Ring
8. One-part sealing ring with titanium shell
9. Chamber
10. Pressure spring
11. Lid
12. Housing
13. Latching mechanism

Additional designs

SDK 30

SDK30 shaft seals have been developed as an economical alternative to the **SDW20** series. Here the individual sealing components such as lubricant chambers, buffer gas chambers etc. can combined as **building blocks** according to the actual operating conditions at the customer's application.

SDK 40

A chamber version with **3-piece radial cut** sealing rings made of special carbon has been developed for middle to high-pressure conditions and are espe-cially suited for hypercritical running rotors. Contact-free sealing rings of the **SDK40** series are reducing leakage values by up to 90%.

SDW 20

SDW20 shaft seals are shaft seals with a **divided housing**. The sealing rings have a **3-part design** with radial cut and are embedded in such a way that they can move radially in the housing. The split housing makes assembly and disassembly of the shaft seal considerably easier. The shaft seals can be offered with connections for buffer lubricant, buffer gas or suction drain.

SDW 50

SDW50 shaft seals are sliding seals with **split housings**. The three-piece sealing rings are made of PTFE compounds or special carbon materials. They are designed for readjustment, i.e. they are manufactured with **overlapping and gastight cuts**. The shaft seals are available in standard design with or without connection for suction drain or buffer gas.

SDH 20

The **STASSKOL DynamicSeal** shaft seals are demanding rotating shafts with a very low run-out and a high wear resistance. This can be ensured by our **rotating shaft sleeves**. By using various coating alternatives to suit the respective application the **SDH20** ensures high service life times.

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