STASSKOL

DYNAMICSEAL SDS 100

Shaft seals

Standard and custom solutions

Especially designed to suit the specific application

In order to meet the specific application conditions the cup design 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 250 bar.

DYNAMICSEAL SDS 100

Type overview

Sealing rings 1-part with or without Titanium jacket

Standard	Special Design	Comments
SDS100	**SDS100s**	made of Carbon or Carbon/Titanium

Cup Design

Standard	Special Design	Connections
SDS100-S	**SDS100s-S**	buffer gas
SDS100-A	**SDS100s-A**	suction drain
SDS100-AS	**SDS100s-AS**	suction drain, buffer gas
SDS100-O	**SDS100s-O**	without connections

Applications and Material

Applications:	**Industries:**
Gear compressors	Chemical
Screw Compressors	Refineries
Steam engines	Gases

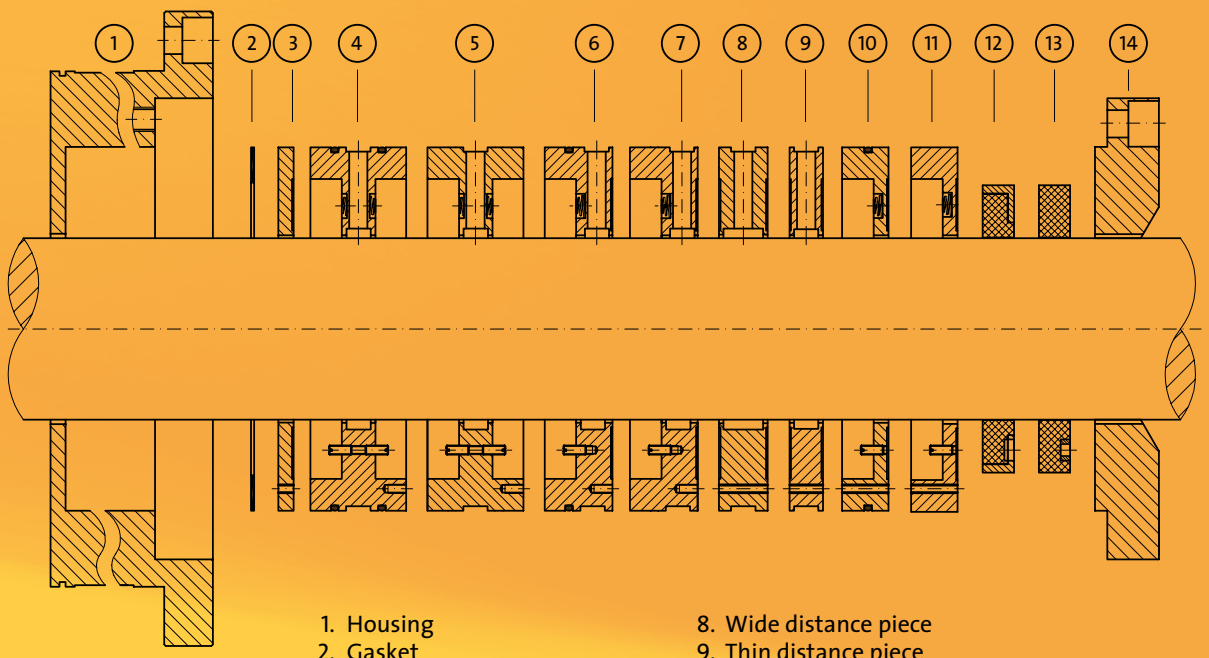
Material
Sealing rings made of **SK10K** with Titanium jacket for applications up to 250°C.

Housings made of 1.4021, 1.4571, Inconel®, Hastelloy® or Titanium. Springs and retainers made of 1.4571, Inconel®, Hastelloy® or Titanium.

Pressure Design 0.1 up to approx. 50 bar
Permission average pressure difference per effective sealing ring from 0.1 to 15 bar, depending on sliding speed and shaft diameter. Radial gap between shaft and cup of 1 mm.

Pressure Design 0.1 up to approx. 250 bar
Permission average pressure difference per effective sealing ring made of Carbon with Titanium jacket from 0.1 to 19 bar, depending on sliding speed and shaft diameter. Radial gap between shaft and cup of 1 mm.

Modular design principle



1. Housing
2. Gasket
3. End ring
4. Buffer gas cup with O-ring
5. Buffer gas cup
6. Distance piece with O-ring
7. Distance piece cup
8. Wide distance piece
9. Thin distance piece
10. Cup with O-ring
11. Cup
12. Sealing ring 1-part with Titanium jacket
13. Sealing ring 1-part
14. Lid

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

Cup design 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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