

STASSKOL



DYNAMICSEAL SDK 40

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 vacuum up to 80 bar.

STASSKOL
Dynamische

DYNAMICSEAL SDK 40

TYPE OVERVIEW

3-part sealing rings, radial cut

Standard	Special Design	Comments
SD40	SD40s	made of carbon black



Chamber design

Standard	Special Design	Connections
SDK40-S	SDK40s-S	buffer gas
SDK40-A	SDK40s-A	suction drain
SDK40-AF	SDK40s-AF	suction drain, grease barrier
SDK40-O	SDK40s-O	without connections

APPLICATIONS AND MATERIALS

Applications:

Fans
Blowers
Turbines
Gear Manufacturing

Industries:

Chemical/petrochemical
Air separation equipment
Power plants
Refineries
Building materials industry
Textile industry
Filter technology

Material

Sealing rings made of carbon and impregnated carbon like **SK10C**, **SK10K**, **SK32K** and **SK40** for applications up to 600°C.

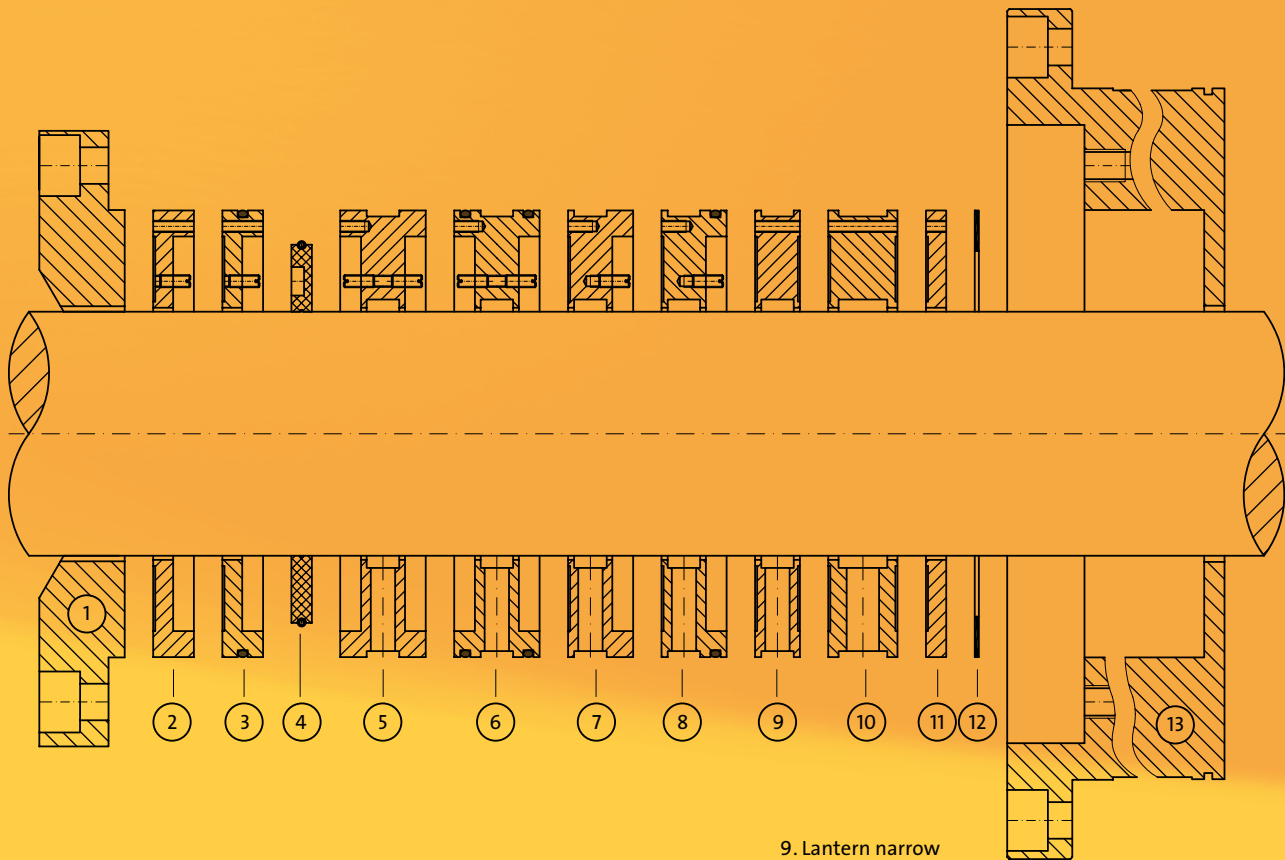
Housings made of 1.4021, 1.4571, Inconel®, Hastelloy® or Titan. Springs and retainers made of 1.4571, Inconel®, Hastelloy® or Titan.

Sealing design for vacuum up to approx. 80 bar

Permissible average pressure difference per effective sealing ring from 0.5 bar to 8.0 bar, depending on sliding speed and shaft diameter. Radial clearance between shaft and chamber of 1 mm.



MODULAR DESIGN PRINCIPLE



- 1. Lid
- 2. Chamber
- 3. Chamber with O-Ring
- 4. 3-part sealing ring

- 5. Buffer gas chamber
- 6. Buffer gas chamber with O-Ring
- 7. Lantern chamber
- 8. Lantern chamber with O-Ring

- 9. Lantern narrow
- 10. Lantern wide
- 11. End ring
- 12. Flat seal
- 13. Housing



ADDITIONAL DESIGNS

SDW 20

SDW20 shaft seals are shaft seals with a **split 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 facilitates the assembly and disassembly of the shaft seal considerably. The shaft seals can be offered with connections for grease barrier, buffer gas or suction drain.

SDW 50

SDW50 shaft seals are sliding seals with **split housings**. The 3-part sealing rings are made of PTFE compounds or special carbon materials. They are designed for readjustment, i.e. they are manufactured with an **overlapped mortised and gastight ring design**. The shaft seals are available in standard design with or without connection for suction drain or buffer gas.

SDK 80

The **SDK80** series consists of a labyrinth packing with one-piece chambers and radially moveable sealing rings. The **one-piece sealing rings** are made out of a special carbon with a titanium shell for high temperature and pressure resistance. The **chamber design** is suitable for applications involving very high pressures.

SDK 30

SDK30 shaft seals have been developed as an economical alternative to the **SDW20** series. The **modular design principle** applies to the individual sealing components such as grease chamber, buffer gas chamber etc. according to the actual operating conditions of the customer's application.



SDH 20

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



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