STASSKOL

DYNAMICSEAL SDW 50

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 2 bar.

DYNAMICSEAL SDW 50

Type overview

3-part sealing rings, overlapped mortised

Standard	Special Design	Comments
SD50	**SD50s**	made of PTFE compounds or carbon black

Split housing design

Standard	Special Design	Connections
SDW50-A	**SDW50s-A**	suction drain
SDW50-S	**SDW50s-S**	buffer gas

Split housing design, short construction form

Standard	Special Design	Connection
SDW50k-O	**SDW50ks-O**	without

Applications and Materials

Applications:	**Industries:**
Fans	Chemicals / Petrochemicals
Turbines	Air separation equipment
Blowers	Power plant
Stirrers	Refineries
Dryers	Building materials industry
Mixers	Textiles industry
Digester	Filter technology

Material

Sealing rings made of **SK22** and **SK29**, PTFE compounds filled with glass fibres or carbon / graphite, as well as **SK10K** and **SK40** made of carbon and impregnated carbon for applications up to 500°C.

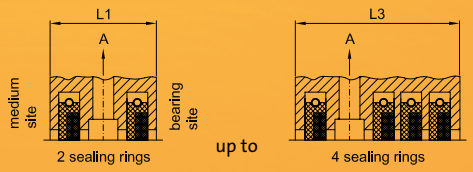
Housing made of GG25, St-37 galvanised, 1.4021, 1.4571, Inconel®, Hastelloy® or titanium. Springs and retainers made of 1.4571, Inconel®, Hastelloy® or titanium.

Sealing design for vacuum up to approx. 2 bar

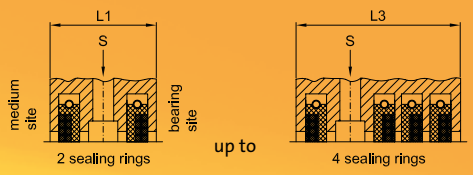
Allowed average pressure difference per effective sealing ring between 0.3 and 0.5 bar depending on shaft diameter. Radial clearance between shaft and housing from 2.5 to 5.0 mm.

Length and sealing ring arrangement of standard designs

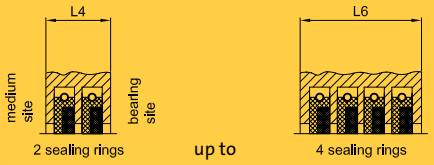
SDW50-A
with suction drain



SDW50-S
with connections for buffer gas

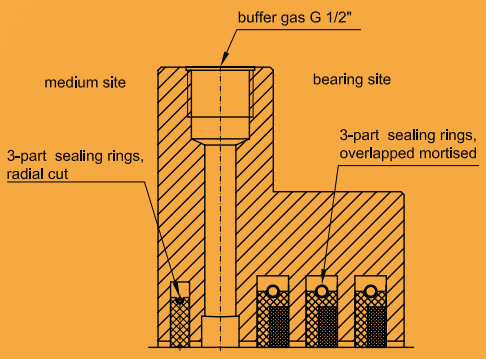


SDW50k-O
short design without connections

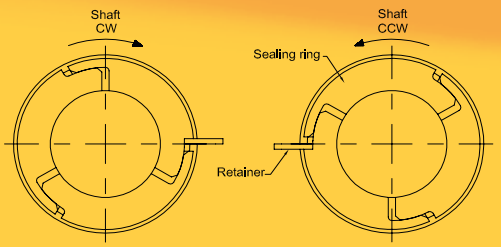


Special Design

By combining radially cut sealing rings on the medium side and overlapped mortised sealing rings on the bearing side, we provide a directed buffer gas flow to the medium which keeps the shaft seal free from solids whilst leakage to the atmosphere remains low.



Assembly dependent on rotating direction



Additional design

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.

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.

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 the leakage values by up to 90%.

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 resis-tance. The **chamber design** is suitable for applications involving very high pressures.

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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