

STASSKOL



DYNAMICSEAL SDW 20 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 25 bars.

STASSKOL
Dynamics

DYNAMICSEAL SDW 20

TYPE OVERVIEW

3-part sealing rings, radial cut

Standard	Special Design	Comments
SDW20	SDW20s	made of PTFE compounds or carbon black

Split housing design

Standard	Special Design	Comments
SDW20-FS	SDW20s-FS	buffer lubricant, buffer gas
SDW20-AF	SDW20s-AF	suction drain, buffer gas
SDW20-AFS	SDW20s-AFS	suction drain, buffer lubricant, buffer gas

Split housing design, short

Standard	Special Design	Comments/ Connections
SDW20k-F	SDW20ks-F	buffer lubricant
SDW20kv-F	SDW20kvs-F	reduced outer diameter/ buffer lubricant
SDW20kv-S	SDW20kvs-S	reduced outer diameter/ buffer gas

APPLICATIONS AND MATERIALS

Applications:

Fans
Compressors
Turbines
Centrifuges
Gear Manufacturing
Dryers
Mixers

Industries:

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

Material

Sealing rings made of **SK22**, **SK29**, **SK38** and **SK49**, PTFE compounds filled with glass fibres or carbon/graphite as well as **SK10C**, **SK10K**, **SK32K** and **SK40** made of carbon and impregnated carbon for applications up to 600°C.

Housings made of GG25, St-37 galvanised, 1.4021, 1.4571, Inconel®, Hastelloy® or titanium.

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

Sealing design for vacuum up to about 25 bar

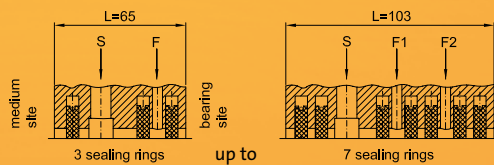
Allowed average pressure difference per effective sealing ring between 0.3 and 4.0 bar depending on shaft diameter. Radial clearance between shaft and housing from 1 to 5 mm.



LENGTH AND SEALING RING ARRANGEMENT OF STANDARD DESIGNS

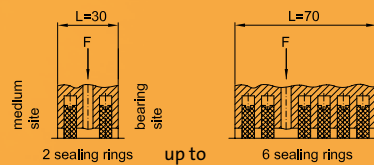
SDW20-FS

with connections for buffer gas and buffer lubricant



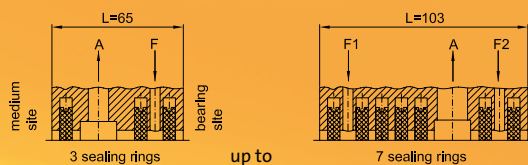
SDW20k-F

Short design with connection for buffer lubricant



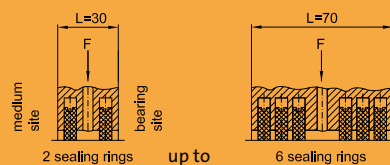
SDW20-AF

with suction drain and connection for buffer lubricant



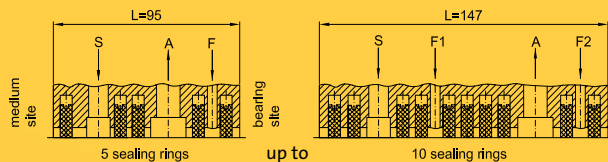
SDW20kv-F

Short design with reduced outer diameter and connection for buffer lubricant



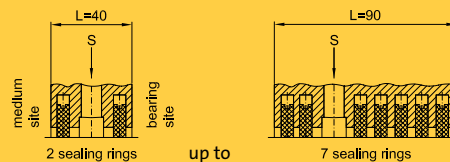
SDW20-AFS

with connections for buffer gas, suction drain and buffer lubricant



SDW20kv-S

Short design with reduced outer diameter and connection for buffer gas



ADDITIONAL DESIGNS

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.



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 be 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 especially suited for hypercritical running rotors. Contact-free sealing rings of the **SDK40** series are reducing 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 framed by titanium for high temperature and pressure resistance. The **chamber design** is suitable for applications involving very high pressures.



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.

STASSKOL GmbH
Maybachstrasse 2
39418 Stassfurt
Germany

☎ +49 (0) 39 25 / 288-100

☎ +49 (0) 39 25 / 288-105

✉ info@stasskol.de

🌐 www.stasskol.de

STASSKOL Inc.
19911 Morton Road
Katy, Texas 77449
USA

☎ +1 (713) 244-5050

☎ +1 (281) 8910567

✉ info@stasskol.com

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