

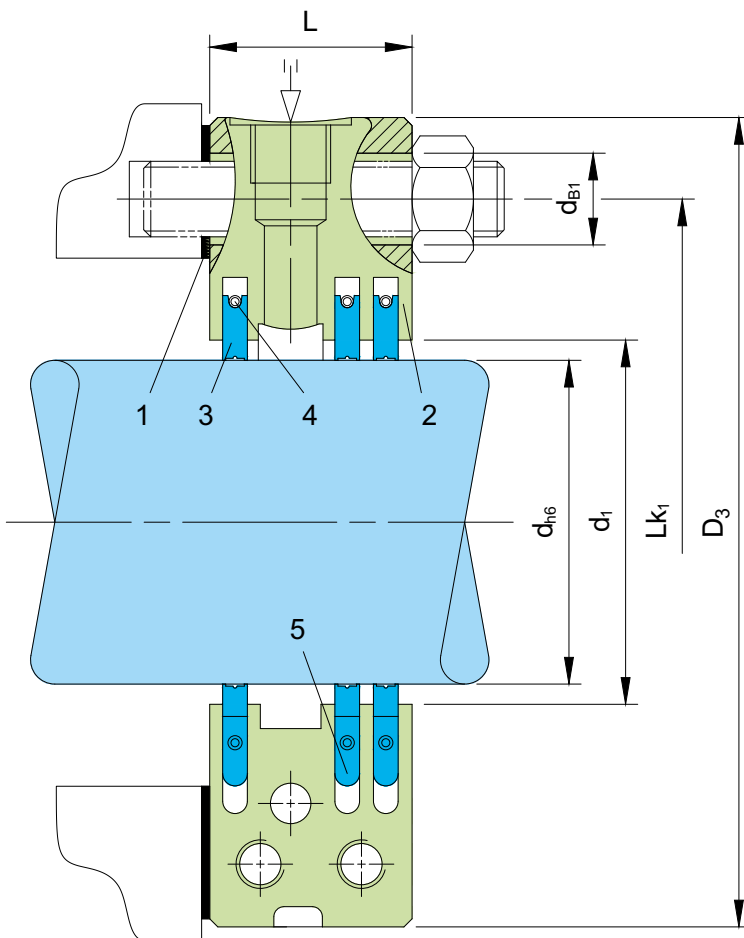


#### Product Description

1. Designed to accommodate axial shaft movement
2. Capable of running dry
3. Radially cut multi-part seal rings
4. Shaft free of sealing components which minimizes the shaft vibrations
5. Seal rings are self adjusting
6. Shaft movement is accommodated by seal rings
7. Minimal power consumption as seal rings are non-contacting
8. Design of the seal housing is split
9. Low leakage due to extremely reduced gap during operation

#### Technical Features

1. Ease of installation during assembly due to split design (dismantling of shaft is not necessary)
2. Operational durability
3. Easy to maintain
4. Trouble free replacement due to segmented seal ring design



**Note:** The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their assembly procedure.

Item	Description
1	Flat seal
2	Housing, 2-piece
3	Seal ring
4	Tension spring
5	Detent

#### Typical Industrial Applications

Bearing seals (gear box & motors)	Petrochemical
Chemical	Power plant technology
Fans & blowers	Steam turbines
Food processing	Steams & liquid mist gases
Fumes & exhaust	Toxic gases
Metal production	Waste incineration
Mixers, agitators, mills & dryers	
Oil mist	

#### Standards

FDA

#### Materials

Seal ring	Carbon, PTFE compound
Housing	1.4021, 1.4571, Hastelloy®, Titanium, Inconel®, others
Tension spring / detent	1.4571, Hastelloy®, Titanium, Inconel®

#### Performance Capabilities

Shaft diameter	d = 40 ... 340 mm (1.57" ... 13.39")
Operating pressure	p = vacuum ... 20 bar (290 PSI) abs.
Operating temperature	t = -120 °C ... +800 °C (-184 °F ... +1,472 °F) for carbon, max. 225 °C (437 °F) for PTFE compound
Speed	max. 150 m/s (492 ft/s) for carbon, max. 40 m/s (131 ft/s) for PTFE compound

#### Radial Play

± 1.0 ... 5.0 mm (± 0.04" ... 0.2")

#### Axial Movement

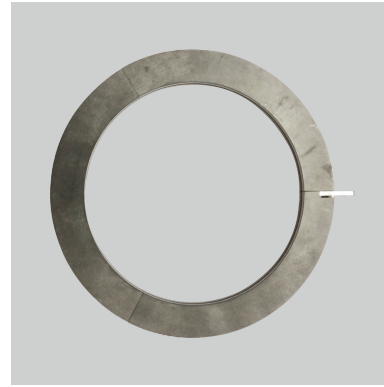
Theoretically unlimited

#### Recommended Wear Guard

> 300 HB (low pressure), >58 HRC (high pressure)

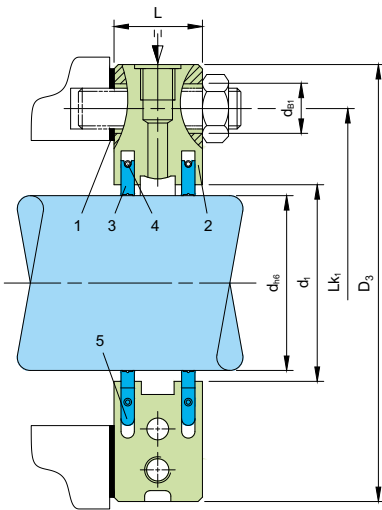


ADKS 200 (split design)



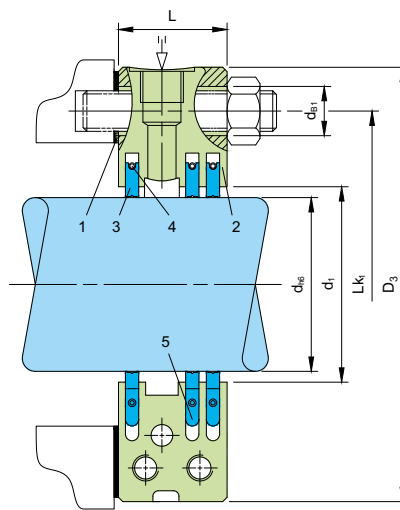
Seal rings ADKS 200 (3-part, radial cut),  
Carbon / PTFE compound

### Product Variants



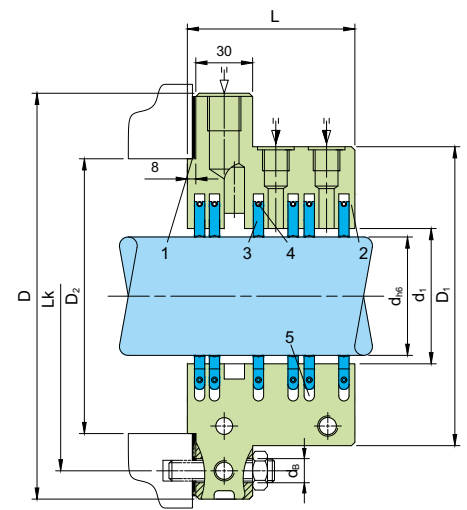
#### ADKF

With short design, reduced housing outside diameter and grease barrier port (for clean media, not for solids containing gases).



#### ADKS 200

For toxic and solids containing gases as well as ATEX applications type shaft seal with short design, reduced housing outside diameter and barrier gas port (for e.g. toxic and solids containing gases).



#### ADS

With barrier gas and grease barrier port (for e.g. toxic and solids containing gases as well as ATEX applications, on special request).

The specifications, drawings, images etc included in this catalogue are intended to be generic and must be interpreted as equivalent or functionally equivalent, more specifically the performance capabilities mentioned in this catalogue is based on optimum values, however the performance of the product is dependent on size, material of construction, media, pressure, temperature, sliding velocity etc and it shall vary from size to size or application to application. Customers are requested to consult with Sealmatic before employing the product from this catalogue for any application.