



### 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

### Typical Industrial Applications

Bearing seals (gear box, motors)  
 Chemical industry  
 Food processing industry  
 Fumes and exhaust, solids containing, flammable (ATEX), acid containing and toxic gases (Solids containing) steams / liquid mist Gases  
 Medium-sized and large fans / blowers  
 Metal production and processing  
 Mixers, agitators, mills, dryer  
 Oil mist / penetrating oil  
 Petrochemical industry  
 Power plant technology  
 Steam turbines  
 Waste incineration and removal industry  
 Water

### Standards

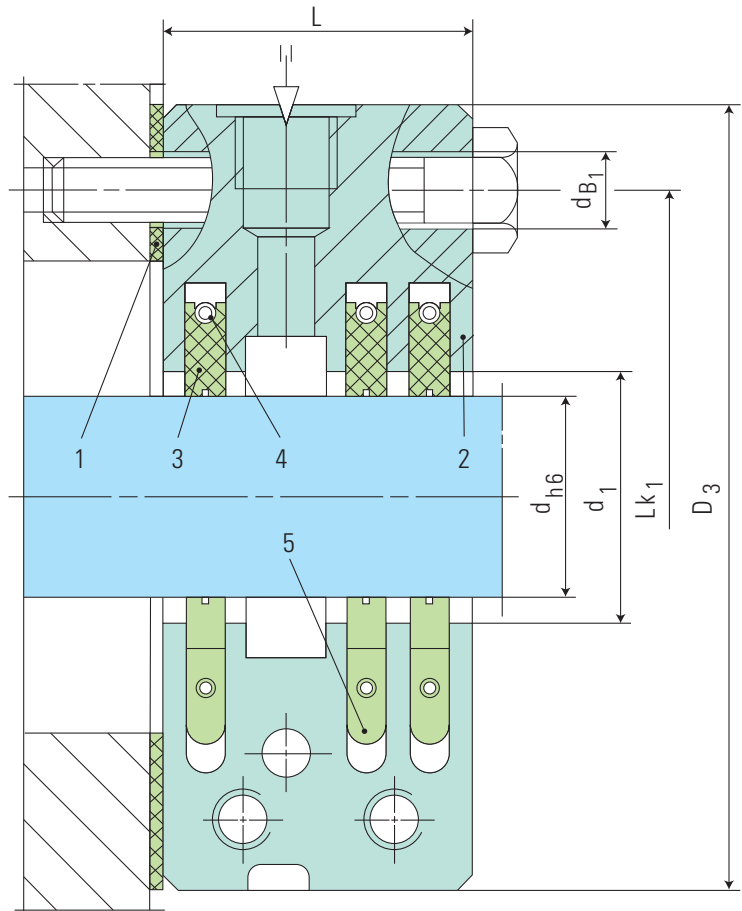
FDA

### 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:  
 $d = 40 \dots 340 \text{ mm} (1.57 \dots 13.39\text{'})$   
 Operating pressure:  $p = \text{vacuum} \dots 20 \text{ bar} (290 \text{ PSI}) \text{ abs.}$   
 Operating temperature:  $t = -120 \text{ °C} \dots +800 \text{ °C} (-184 \text{ °F} \dots +1,472 \text{ °F})$  for carbon, max.  $225 \text{ °C} (437 \text{ °F})$  for PTFE compound  
 Speed = max.  $150 \text{ m/s} (492 \text{ ft/s})$  for carbon, max.  $40 \text{ m/s} (131 \text{ ft/s})$  for PTFE compound  
 Radial play:  $\pm 1.0 \dots 5.0 \text{ mm} (\pm 0.04 \dots 0.2\text{'})$   
 Axial movement: theoretically unlimited  
 Recommended wear guard:  $> 300 \text{ HB} (low \text{ pressure}), > 58 \text{ HRC} (high \text{ pressure})$

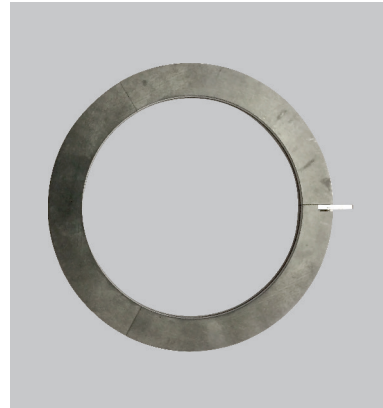


**Note:** The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their assembly procedure.

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

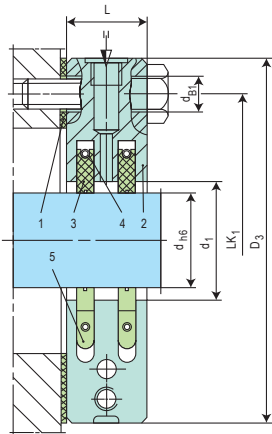


ADKS 200 (split design)



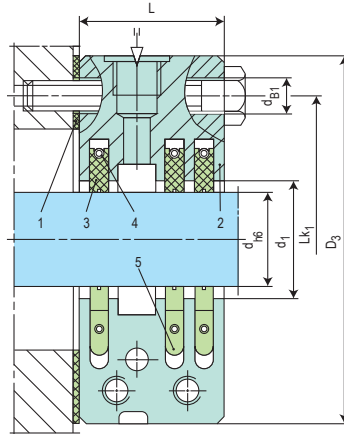
Seal rings ADKS 200 ( 3-part, radial cut ),  
Carbon / PTFE compound

## Product Variants



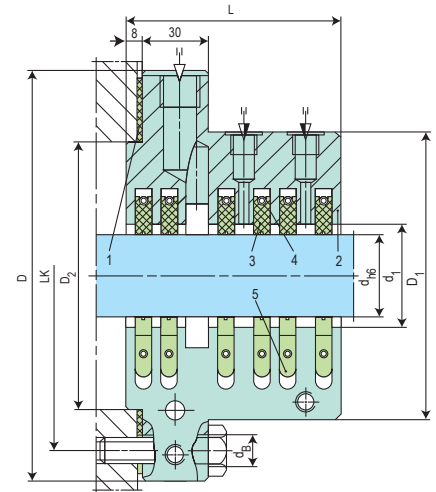
### ADKF

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).