**Product Description**
1. Designed to accommodate axial shaft movement.
2. Capable of running dry.
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**
- Chemical industry
- Waste incineration and removal industry
- Power plant technology
- Petrochemical industry
- Food processing industry
- Metal production and processing
- Gases
  - Fumes and exhaust, solids containing, flammable (Atex), acid containing and toxic gases
  - (Solids containing) steams / liquid mist
  - Oil mist / penetrating oil
  - Water
- Medium-sized and large fans / blowers
- Bearing seals (gear box, motors)
- Steam turbines
- Mixers, agitators, mills, dryer

**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: \( d = 40 \ldots 340 \text{ mm (1.57” \ldots 13.39”)} \)
- Operating pressure: \( p = \text{vacuum} \ldots 20 \text{ bar (290 PSI)} \) abs.
- Operating temperature: \( t = -120 \degree \text{C} \ldots +800 \degree \text{C} \ (-184 \degree \text{F} \ldots +1,472 \degree \text{F}) \) for carbon,
  - max. 225 \degree \text{C} (437 \degree \text{F}) for PTFE compound
- Sliding velocity: \( v = \text{max. 150 m/s (492 ft/s)} \) for carbon,
  - max. 40 m/s (131 ft/s) for PTFE compound
- Radial play: \( \pm 1.0 \ldots 5.0 \text{ mm (\pm 0.04” \ldots 0.2”)} \)
- Axial movement: theoretically unlimited
- Recommended wear guard: >300 HB (low pressure), >58 HRC (high pressure)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Flat seal</td>
</tr>
<tr>
<td>2</td>
<td>Housing, 2-piece</td>
</tr>
<tr>
<td>3</td>
<td>Seal ring</td>
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<tr>
<td>4</td>
<td>Tension spring</td>
</tr>
<tr>
<td>5</td>
<td>Detent</td>
</tr>
</tbody>
</table>

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

ADKS 200 (split design)
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 as well as Atex applications, on special request).

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

ADKS 200 (split design)

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

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