EagleBurgmann_®

Espey WDKS-Eco



Features

- Multi-part seal rings, radially cut
- Split housing design
- Very small operation gap low leakage
- Dry running
- Self-adjusting seal rings
- Seal rings bear radial shaft movements
- Compensates axial shaft movements
- No sealing components mounted on the shaft and hence no additional shaft vibrations
- Seal rings running contact-free sliding faces and machine consume no additional power

Advantages

- Easy installation by split housing design (shaft removal not required)
- Long-term operation time
- Maintainability
- Segmented seal rings for easy replacement

Operating range

Shaft diameter:

d = 45 ... 160 mm (1.77" ... 6.3")

Operating pressure:

p = vacuum ... 1.5 bar (22 PSI) abs.

Operating temperature: $t = -120 \text{ °C} \dots +500 \text{ °C}$

(-184 °F ... +932 °F) for carbon,

max. 225 °C (437 °F) for PTFE compound, max. 300 °C (572 °F) with grease

Sliding velocity: vg = max. 150 m/s (492 ft/s) for carbon, max. 40 m/s (131 ft/s) for PTFE

compound

Radial play: ±2.5 ... 5.0 mm (±0.1" ... 0.2") Axial movement: theoretically unlimited Recommended wear guard: >300 HB (low pressure)

Materials

Seal ring: Carbon, PTFE compound

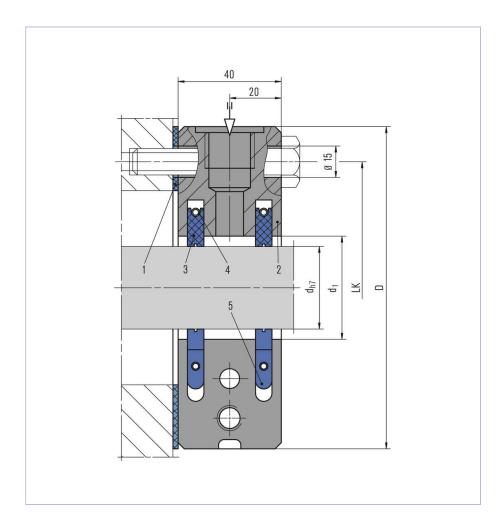
Housing: 1.4021, 1.4571 Tension spring / detent: 1.4571

Standards and approvals

■ FDA

Recommended applications

- Chemical industry
- Metal production and processing
- Pulp and paper industry
- Food processing industry
- Power plant technology
- (Solids containing) gases
- (Solids containing) steams / liquid mist
- Oil mist / penetrating oil
- Water
- Small and medium-sized fans / blowers
- Bearing seals (gear box, motors)
- Mixers, agitators, mills, dryers



Item Description

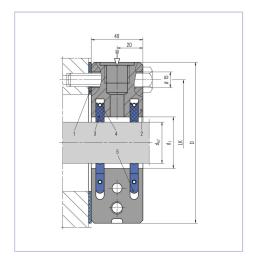
- 1 Flat seal
- 2 Housing, 2-piece
- 3 Seal ring
- 4 Tension spring
- 5 Detent

Installation, details, options

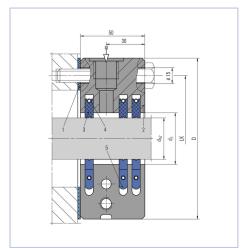


Seal ring Espey WD200 (3-part, radial cut)

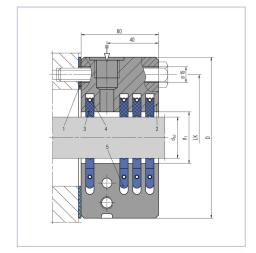
Product variants



Espey WDKS-Eco with 2 seal rings



Espey WDKS-Eco with 3 seal rings



Espey WDKS-Eco with 4 seal rings

Dimensions

d_{h7}	d_1	D	LK
45	50	165	135
50	58	170	140
60	68	180	150
70	78	190	160
80	90	200	170
90	100	210	180
100	110	220	190
110	120	230	200
120	130	240	210
130	140	250	220
140	150	260	230
150	160	270	240
160	170	280	250

Dimensions in mm Special sizes on request.