

RELY ON EXCELLENCE

Espey WKA3

Carbon Floating Ring Seals | Shaft seals



Features

- Cartridge seal
- Standardized dimensions
- Short axial installation length (8.4 mm)
- Dry running
- Seal ring bears 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
- One-piece seal ring (initial delivery)

Advantages

- Easy installation
- High reliability
- Maintainability
- Long-term operating time
- Alternative to radial shaft seal ring

Operating range

Shaft diameter:
 $d = 28 \dots 80 \text{ mm} (1.10" \dots 3.15")$
 Operating pressure: $p = 1.075 \text{ bar} (16 \text{ PSI}) \text{ abs.}$
 Operating temperature:
 $t = \text{max. } +200 \text{ }^\circ\text{C} (392 \text{ }^\circ\text{F})$
 Sliding velocity:
 $vg = \text{max. } 40 \text{ m/s} (131 \text{ ft/s})$
 Radial play: $\pm 2.0 \dots 4.0 \text{ mm} (\pm 0.08" \dots 0.16")$
 Axial movement: theoretically unlimited

Materials

Seal ring: PTFE compound
 Housing: 1.4301
 Tension spring: 1.4571

Standards and approvals

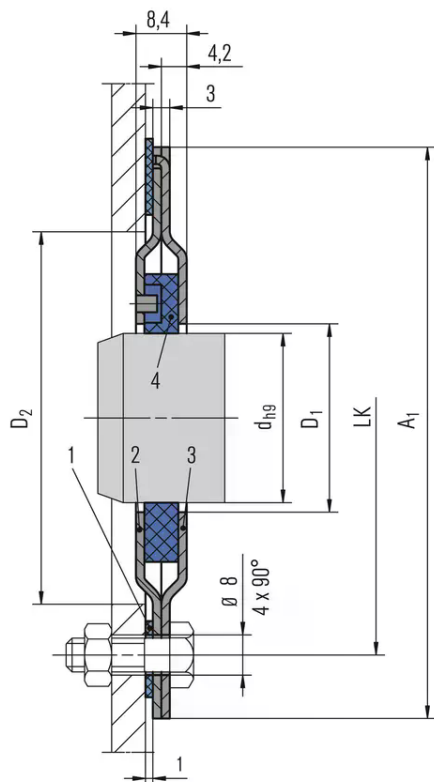
- FDA

Recommended applications

- Chemical industry
- Food processing industry
- Machinery and plant building
- Pulp and paper industry
- Metal production and processing
- CO₂ transportation and storage
- Small and medium-sized fans / blowers
- Air regulating devices
- Bearing seals
- Clean gases*

* Not applicable for toxic, solids containing gases and exhaust gas

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Item	Description
1	Flat seal
2	Housing half
3	Housing half
4	Seal ring

Dimensions

d_{Hg}	D_1	D_2	A_1	LK	RB	RC
28	36	70	100	90	35	30
30	36	70	100	90	35	30
32	36	70	100	90	35	30
38	46	80	110	100	40	35
40	46	80	110	100	40	35
42	46	80	110	100	40	35
50	56	94	130	120	45	40
60	66	104	140	130	50	45
70	76	114	150	140	55	50
80	86	124	160	150	60	55

Dimensions in Millimeter RB, RC = flanging radii