

RELY ON EXCELLENCE

Espey WD200 BHS

Carbon Floating Ring Seals | Shaft seals



Features

- Multi-part seal rings, radially cut
- Split housing design
- Short axial installation length (max. 36 mm)
- Very small operation gap
- Dry running
- Self-adjusting seal rings
- Seal rings bear radial shaft movements
- Compensates axial shaft movements
- Seals on both sides of the shaft
- Resistant to sea water
- 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 = 40 ... 800 mm (1.57" ... 31.5")

Operating pressure:

p = vacuum ... 3 bar (43 PSI) abs.

Operating temperature:

t = max. 225 °C (437 °F)

Sliding velocity: v_g = max. 40 m/s (131 ft/s)

Radial play: ± 5.0 mm (± 0.2 ") (depending on shaft diameter)

Axial movement: theoretically unlimited

Angular deviation: $\pm 2^\circ$ (central installation, depending on shaft diameter)

Materials

Seal ring: PTFE compound

Housing: 1.4571, others

Tension spring / detent: 1.4571

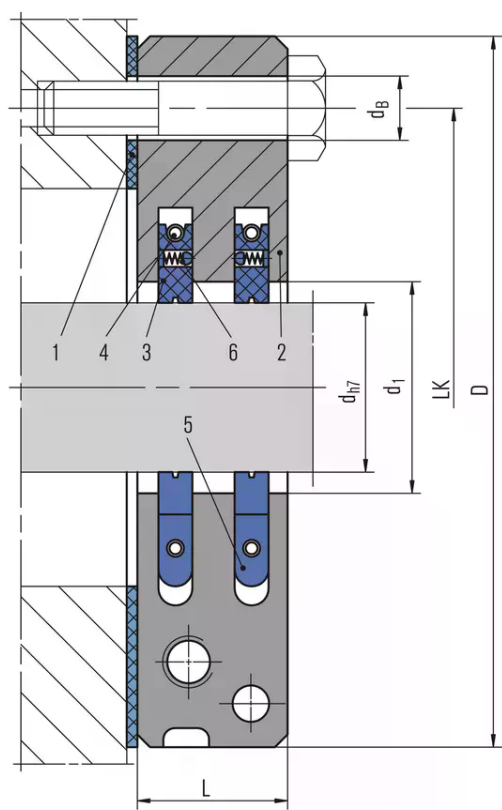
Standards and approvals

- ISO 9001
- American Bureau of Shipping (ABS),
- Bureau Veritas, Lloyd's Register EMEA,
- Det Norske Veritas, Russian Maritime Register of Shipping,
- Germanischer Lloyd and others

Recommended applications

- Sea water, water
- Shipbuilding
- CO2 transportation and storage
- Drive shafts in ships, bulkheads

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

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Dimensions

d _{n7}	d ₁	D	L	LK	n x a	d _B
40	45	160	30	130	4 x 90°	15
45	50	165	30	135	4 x 90°	15
50	58	170	30	140	4 x 90°	15
60	68	180	30	150	4 x 90°	15
70	78	190	30	160	4 x 90°	15
80	90	200	30	170	4 x 90°	15
90	100	210	30	180	4 x 90°	15
100	110	220	30	190	4 x 90°	15
110	120	230	30	200	4 x 90°	15
120	130	240	30	210	4 x 90°	15
130	140	250	30	220	4 x 90°	15
140	150	260	30	230	4 x 90°	15
150	160	270	30	240	4 x 90°	15
160	170	280	30	250	4 x 90°	15
170	180	290	30	260	6 x 60°	15
180	190	300	30	270	6 x 60°	15
190	200	310	30	280	6 x 60°	15
200	210	320	30	290	6 x 60°	15
220	230	340	30	310	6 x 60°	15
240	250	360	30	330	6 x 60°	15
260	270	380	30	350	6 x 60°	15
280	290	400	30	370	6 x 60°	15
300	310	420	30	390	6 x 60°	15
320	330	440	30	410	6 x 60°	15
340	350	460	30	430	6 x 60°	15
350	360	470	30	440	8 x 45°	15
400	410	520	30	490	8 x 45°	15
450	460	570	30	540	8 x 45°	15
500	510	620	30	590	8 x 45°	15
550	560	670	30	640	8 x 45°	15
600	610	720	30	690	8 x 45°	15
650	660	770	36	740	12 x 45°	15
700	710	820	36	790	12 x 45°	19
750	760	870	36	840	12 x 45°	19
800	810	920	36	890	12 x 45°	19

Dimensions in mm Special sizes on request