EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

Espey WDB200

Carbon Floating Ring Seals | Shaft sleeves

Features

- Torque transmission depending on application with set screw or as shrink fit
- Metallic coating (FMP 84) basically for applications without high oxidation
- Ceramic coating (EMP 98) basically for applications with high oxidation
- Design one- or two-piece

Advantages

- Easy installation by split design (2-piece version)
- High reliability
- Long-term operation time
- Maintainability

Operating range

FMP 84 (metallic coating)

General description: chromium carbide
Coating process: flame spray technique (no influence on material structure)
Shrink acceptability: very good
Shaft diameter: d = 45 ... 340 mm (1.77" ... 13.39")
Operating temperature: t = max. 1,000 °C (1,832 °F)
Peripheral velocity: vu = max. 240 m/s (787 ft/s)
Hardness: >65 HRC

EMP 98 (ceramic coating)

General description: chromium oxide (ceramic)
Coating process: flame spray technique (no influence on material structure)
Shrink acceptability: with restrictions

Shaft diameter:
d = 45 ... 340 mm (1.77" ... 13.39")
Operating temperature:
t = max. 600 °C (1,112 °F)
Peripheral velocity:
vu = max. 150 m/s (492 ft/s)
Hardness: >58 HRC

Materials

1.4021-FMP, 1.4086, 1.4462-FMP, 1.4571-FMP, others

Standards and approvals

- DIN 42955

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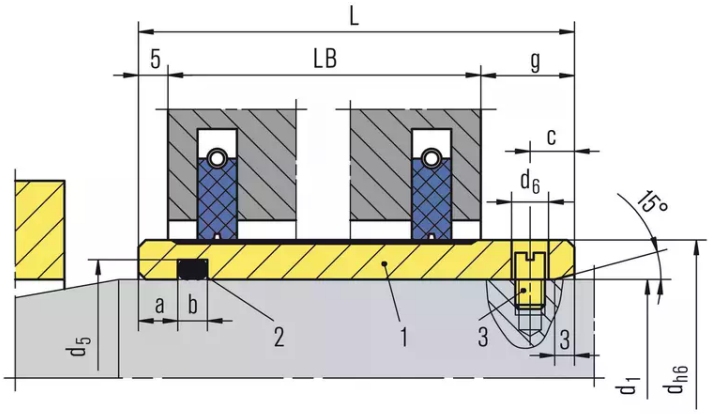
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.



Item	Description
1	Shaft sleeve
2	O-Ring
3	Set screw

Installation, details, options

2-piece shaft sleeve

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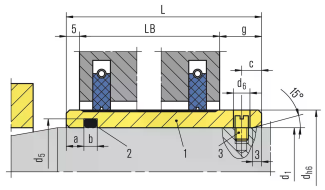
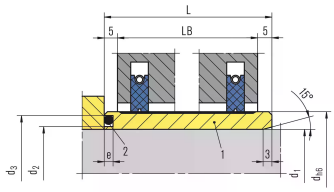
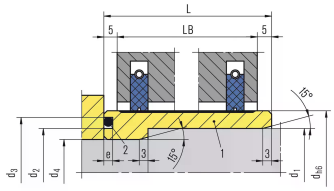
Product variants



Espey WDB210/4
with fit bore shaft sleeve / diameter shaft H6/h6 for low loaded seals e.g. in slow running fans, agitators
or
Espey WDB213/4
with fit bore shaft sleeve / diameter shaft M5/h6 for high loaded seals e.g. in turbo compressors, turbines



Espey WDB211/4
with fit bore shaft sleeve / diameter shaft H6/h6 for low loaded seals e.g. in slow running fans, agitators
or
Espey WDB214/4
with fit bore shaft sleeve / diameter shaft M5/h6 for high loaded seals e.g. in turbo compressors, turbines



Espey WDB212/4
with fit bore shaft sleeve / diameter shaft H6/h6 for low loaded seals e.g. in slow running fans, agitators
or
Espey WDB215/4
with fit bore shaft sleeve / diameter shaft M5/h6 for high loaded seals e.g. in turbo compressors, turbines

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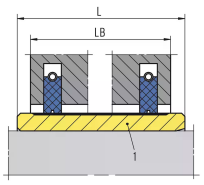

Espey WDB 216/4
with fit bore shaft sleeve / diameter shaft according to operating conditions and customer specifications e.g. for high pressure turbo compressors and turbines

Dimensions

d_{h6}	d_1*	d_2	d_3	d_4	d_5	d_6	a	b	c	e	f	g
45	35	37	42	25.5	38.5	6	5	3	8	1.5	20	15
50	40	42	47	30.5	43.5	6	5	3	8	1.5	20	15
60	50	52	57	40.5	53.5	6	5	3	8	1.5	20	15
70	55	60	67	45.5	60.4	6	5	4	8	2.4	20	15
80	65	70	77	55.5	70.4	6	5	4	8	2.4	20	15
90	75	80	87	65.5	80.4	6	5	4	8	2.4	20	15
100	85	89	97	75.5	91.3	6	7	4.5	8.5	2.8	20	17
110	90	99	107	75.5	96.3	7	7	4.5	8.5	2.8	20	17
120	100	109	117	85.5	106.3	7	7	4.5	8.5	2.8	20	17
130	110	119	127	95.5	116.3	7	7	4.5	8.5	2.8	20	17
140	120	129	137	105.5	126.3	7	7	4.5	8.5	2.8	20	17
150	130	138	146	115.5	136.3	7	7	4.5	8.5	2.8	20	17
160	140	148	156	125.5	146.3	9	7	4.5	9.5	2.8	20	19
170	150	158	166	135.5	156.3	9	7	4.5	9.5	2.8	20	19
180	160	168	176	145.5	166.3	9	7	4.5	9.5	2.8	20	19
190	170	178	186	155.5	176.3	9	7	4.5	9.5	2.8	20	19
200	180	188	196	165.5	186.3	9	7	4.5	9.5	2.8	20	19
220	195	206	215	175.5	202.2	11	8	5	11	3.2	25	22
240	215	226	235	195.5	222.2	11	8	5	11	3.2	25	22
260	235	246	255	215.5	242.2	11	8	5	11	3.2	25	22
280	255	266	275	235.5	262.2	11	8	5	11	3.2	25	22
300	275	286	295	255.5	282.2	11	8	5	11	3.2	30	22
320	295	306	315	275.5	302.2	11	8	5	11	3.2	30	22
340	315	326	335	295.5	322.2	11	8	5	11	3.2	30	22

Dimensions in mm Special sizes on request. * Consider selection of fits

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