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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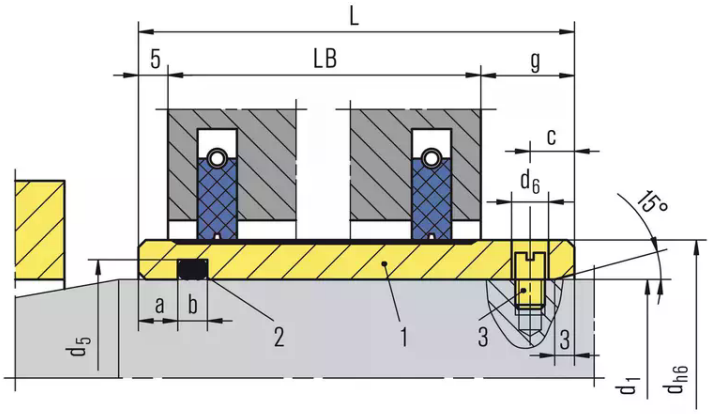
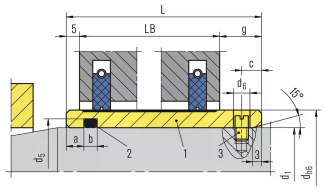


Item	Description
1	Shaft sleeve
2	O-Ring
3	Set screw

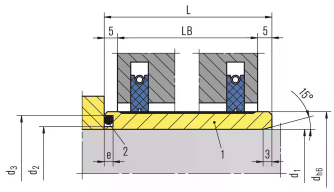
Installation, details, options

2-piece shaft sleeve

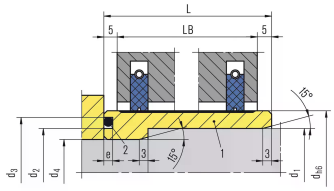
Product variants



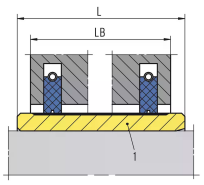
Espey WDB210/4
with fit bore shaft sleeve / diameter shaft H6/h6 for low loaded seals e.g. in slow running fans, agitators
or
Espey WDB213/4
with fit bore shaft sleeve / diameter shaft M5/h6 for high loaded seals e.g. in turbo compressors, turbines



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



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