EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

MD251

Mechanical Seals | Mechanical seals for pumps | Standard cartridge seals

Features

- Cartridge design
- Balanced
- Double seal
- Independent of direction of rotation
- Springs do not contact the liquid
- Inboard seal can withstand both forward and back pressure

Advantages

- Equipped with flushing, quenching, and drainports as standard
- PTFE backup ring as standard

Operating range

Pressure: p = vacuum ... 16 bar (232 PSI)
Temperature:
t = -20 °C ... 160 °C (-4 °F ... 320 °F) (oil),
0 °C ... 80 °C (32 °F ... 176 °F) (water)
Sliding velocity: vg = 20 m/s (66 ft/s)
Viscosity: ... 1 Pa·s
Solids content: ... 7 %

Materials

Seal face (inboard side): Silicon carbide (Q1)
Seal face (atmosphere side): High density carbon graphite
Seat: Silicon carbide (Q1)
Metal parts: CrNiMo steel (G)
Secondary seals: FKM (V)

Recommended applications

- Acids
- Alkaline solutions
- Salt solutions
- Low viscosity oils
- Monomers
- Hydrocarbons
- Water
- Seawater
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Pulp and paper industry
- Water and waste water technology
- Food and beverage industry
- Metal production and processing
- Chemical pumps
- Process pumps

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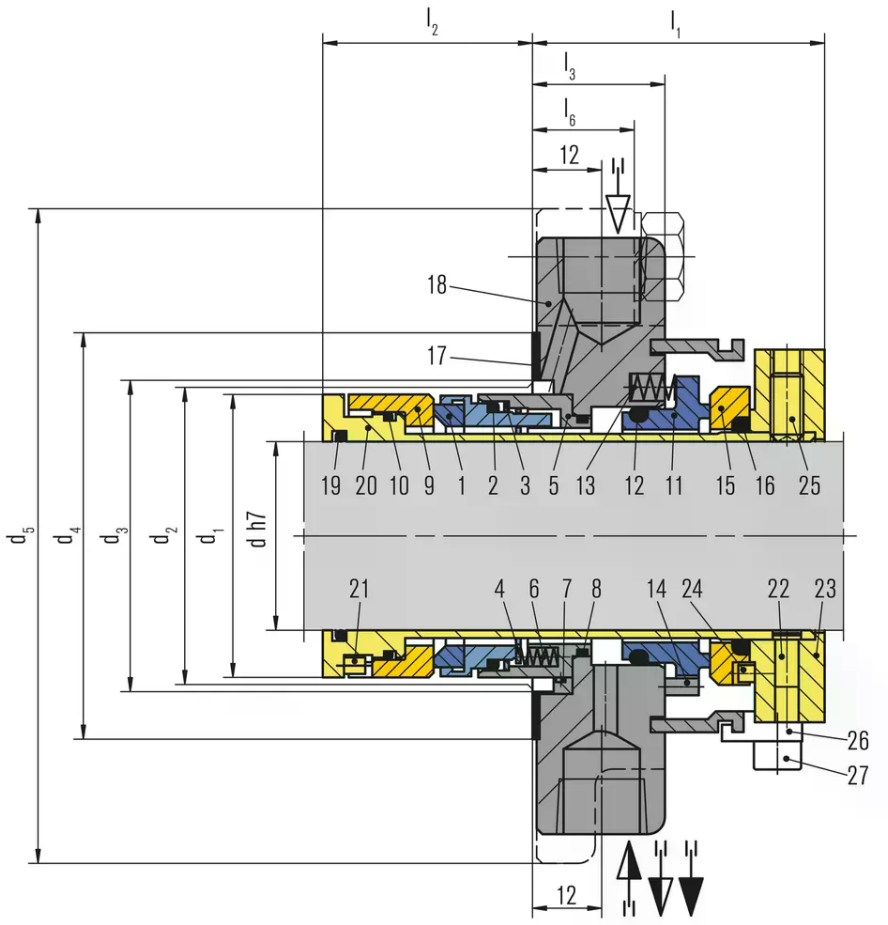
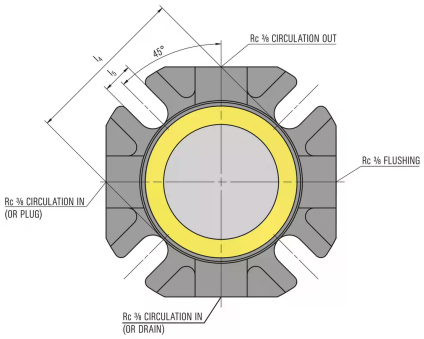
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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



Item	Description
1, 11	Seal face
2, 8, 10, 12, 16, 19	O-Ring
3	Spacer
4	Thrust ring
5	Collar
6, 13	Spring
7, 14, 21, 22, 24	Pin
9, 15	Seat
17	Gasket
18	Seal cover
20	Shaft sleeve
23	Drive collar
25	Set screw
26	Assembly fixture
27	HSH cap screw

Installation, details, options



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Dimensions

d	d_{s1}	d~2 min.~	d~2 max.~	d_3	d_4	d_5	l_1	l_2	l_3	l_4	l_5	l_6
20	34	36	51	38	58	104	49	42	23	60	12	18
25	39	41	51	43	58	104	49	42	23	60	12	18
30	44	46	56	48	63	108	49	42	23	65	12	18
35	49	51	66	53	73	118	49	42	23	75	14	16
40	56	58	66	60	73	118	49	42	23	75	14	16
45	61	63	71	65	78	128	49	42	23	80	14	16
50	68	70	81	72	88	138	51	42	23	90	14	16
55	73	75	81	77	88	138	51	42	23	90	14	16
60	78	80	96	82	103	164	54	45	23	105	18	14
65	84	86	96	88	103	164	54	45	23	105	18	14
70	90	92	102	94	109	178	54	45	23	111	18	14
75	99	102	114	104	121	193	57	45	23	123	18	14
80	104	107	114	109	121	193	57	45	23	123	18	14
85	109	112	124	114	131	208	57	45	23	133	20	13
90	114	117	124	119	131	208	57	45	23	133	20	13
95	119	122	134	124	141	218	57	45	23	143	20	13
100	124	127	134	129	141	218	57	45	23	143	20	13

Dimensions in Millimeter

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