EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

M2N

Mechanical Seals | Mechanical seals for pumps | Pusher seals

Features

- For plain shafts
- Single seal
- Unbalanced
- Conical spring rotating
- Dependent on direction of rotation

Advantages

- Economical seal solution
- No damage of the shaft by set screws
- Short installation length possible (G16)

Operating range

Shaft diameter:
d1 = 6 ... 38 mm (0.25" ... 1.5")
Pressure: p1 = 10 bar (145 PSI)
Temperature:
t = -20 °C ... 140 °C
(-4 °F ... 355 °F)
Sliding velocity:
vg = 15 m/s (50 ft/s)
Axial movement: ±1.0 mm

Materials

Seal face: Carbon graphite resin impregnated (B)
Seat G9: Silicon carbide (Q1, Q2),
Special cast CrMo steel (S), Aluminium oxide (V)

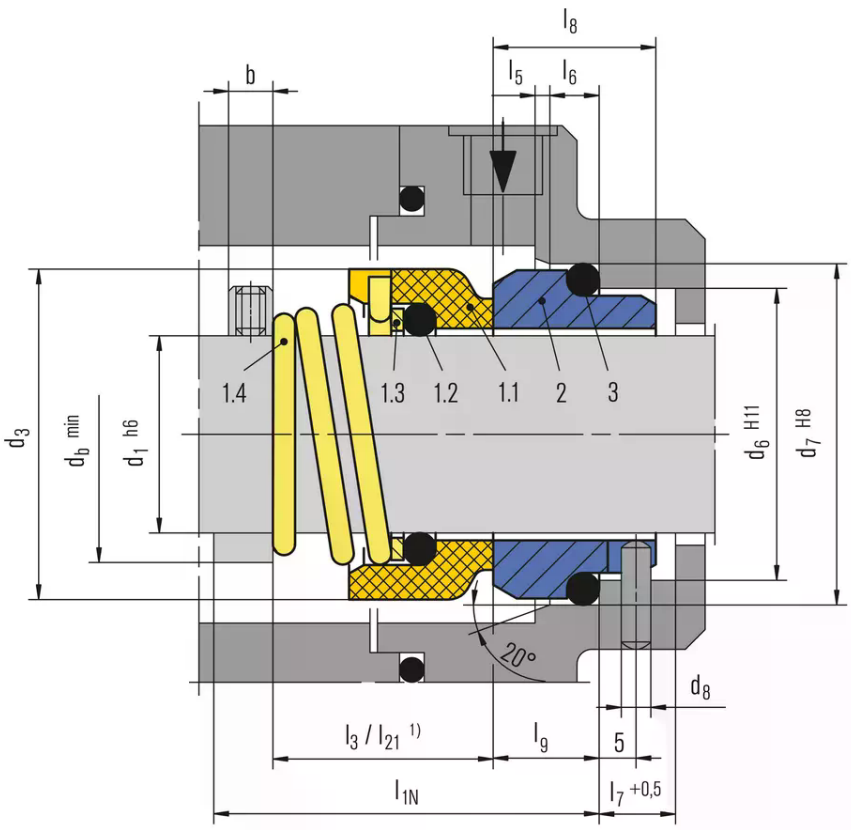
Standards and approvals

- EN 12756

Recommended applications

- Pulp and paper industry
- Water and waste water technology
- Building services industry
- Water pumps
- Heating circulation pumps

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	Part no. to DIN 24250	Description
1.1	472	Seal face
1.2	412.1	O-Ring
1.3	474	Thrust ring
1.4	478	Righthand spring
1.4	479	Lefthand spring
2	475	Seat (G9)
3	412.2	O-Ring

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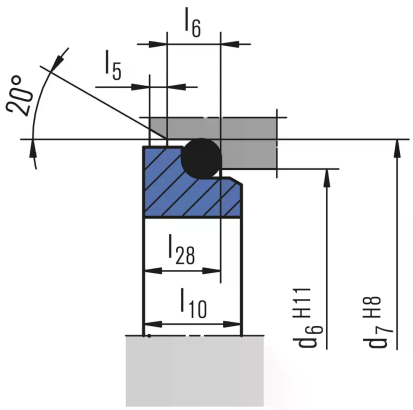
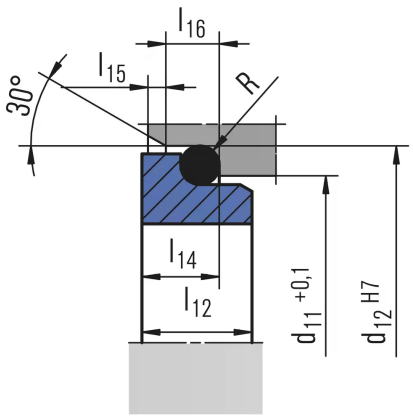
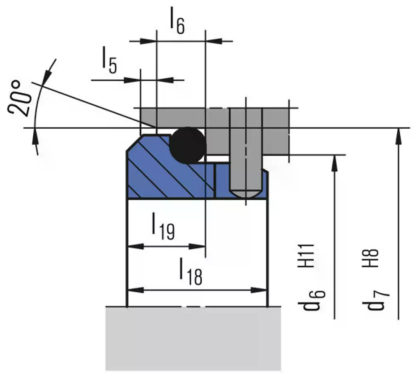
Seat alternatives



G6 (EN 12756)



G4



G16 (EN 12756)

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Product variants

M2
Rotating unit M2 with seat G4 or G16 (shorter installation length).
Seal face:
Carbon graphite resin impregnated (B)
Seat G4:
Silicon carbide (Q1), Special cast CrMo steel (S)
Seat G16:
Silicon carbide (Q1, Q2), Special cast CrMo steel (S), Aluminium oxide (V)

M2N4
Rotating unit M2 with seat G6.
Seal face:
Carbon graphite resin impregnated (B)
Seat G6:
Silicon carbide (Q1), Special cast CrMo steel (S)

Dimensions

d_1	d_3	d_6	d_7	d_8	d_{11}	d_{12}	d_b	d_b	$l_3$1)	l_5	l_6	l_7	l_8	l_{10}	l_{12}	l_{14}	l_{15}	l_{16}	l_{18}	l_{19}	l_{21}1)	l_{28}	b	R
6	15	–	–	–	11.8	16.0	8	–	–	–	–	–	–	–	6.5	5.6	1.2	3.8	–	–	10.9	–	–	1.2
8	18	–	–	–	15.5	19.2	11	–	–	–	–	–	–	–	8.0	7.0	1.2	3.8	–	–	15.5	–	–	1.2
10	20	17	21	3	15.5	19.2	13	40	17.5	1.5	4	8.5	17.5	7.5	7.5	6.6	1.2	3.8	–	–	15.9	6.6	8	1.2
12	22	19	23	3	17.5	21.6	16	40	17.5	1.5	4	8.5	17.5	7.5	8.0	7.0	1.2	3.8	–	–	16.0	6.6	8	1.2
14	25	21	25	3	20.5	24.6	18	40	17.5	1.5	4	8.5	17.5	7.5	8.0	7.0	1.2	3.8	–	–	16.0	6.6	8	1.2
15	27	–	–	–	20.5	24.6	19	–	–	–	–	–	–	–	7.5	6.6	1.2	3.8	–	–	17.4	–	–	1.2
16	27	23	27	3	22.0	28.0	21	40	19.5	1.5	4	8.5	17.5	7.5	8.5	7.5	1.5	5.0	–	–	19.0	6.6	8	1.5
18	30	27	33	3	24.0	30.0	23	45	20.5	2.0	5	9.0	19.5	8.5	9.0	8.0	1.5	5.0	15	7	20.5	7.5	8	1.5
20	32	29	35	3	29.5	35.0	26	45	22.0	2.0	5	9.0	19.5	8.5	8.5	7.5	1.5	5.0	15	7	22.0	7.5	8	1.5
22	35	31	37	3	29.5	35.0	28	45	23.5	2.0	5	9.0	19.5	8.5	8.5	7.5	1.5	5.0	15	7	23.5	7.5	8	1.5
24	38	33	39	3	32.0	38.0	30	50	25.0	2.0	5	9.0	19.5	8.5	8.5	7.5	1.5	5.0	15	7	25.0	7.5	8	1.5
25	40	34	40	3	32.0	38.0	31	50	26.5	2.0	5	9.0	19.5	8.5	8.5	7.5	1.5	5.0	15	7	26.5	7.5	8	1.5
26	41	–	–	–	34.0	40.0	32	–	–	–	–	–	–	–	9.0	8.0	1.5	5.0	–	–	26.5	–	–	1.5
28	43	37	43	3	36.0	42.0	35	50	26.5	2.0	5	9.0	19.5	8.5	10.0	9.0	1.5	5.0	15	7	26.5	7.5	8	1.5
30	47	–	–	–	39.2	45.0	37	–	–	–	–	–	–	–	11.5	10.5	1.5	5.0	15	7	25.0	–	–	1.5
32	48	–	–	–	42.2	48.0	39	–	–	–	–	–	–	–	13.0	10.5	1.5	5.0	15	7	28.5	–	–	1.5
35	53	–	–	–	46.2	52.0	43	–	–	–	–	–	–	–	13.5	11.0	1.5	5.0	15	7	28.5	–	–	1.5
38	56	–	–	–	49.2	55.0	47	–	–	–	–	–	–	–	13.0	10.3	1.5	5.0	16	8	32.0	–	–	1.5

Dimensions in Millimeter 1) l~3~ valid for M2N, l~21~ valid for M2

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