EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

M481C

Mechanical Seals | Agitator seals | Liquid lubricated seals

Features

- Liquid-lubricated double seal for top-entry drives
- Cartridge unit
- Self-closing on the product side
- For stepped and unstepped shafts
- Unbalanced
- Independent of direction of rotation
- Multiple springs rotating

Advantages

- Ready-to-fit and factory-tested units
- The M481C and its variants will remain closed even during pressure variations or pressure reversal. Operation is possible with buffer fluid (p1max = 6 bar (87 PSI)) or pressurized with barrier fluid as double seal
- Available with or without bearing
- Metal-free on product side as option
- Suitable for standardizations
- Seal can be applied at higher pressure and rotating speed than specified by DIN

Operating range

Shaft diameter:
d1 = 40 ... 125 mm (1.57" .... 4.92")

Pressure:
p1 = vacuum ... 16 bar (232PSI),
p3 = max. 18 bar (261 PSI)

Temperature:
t1 = -40 °C ... +200 °C
(-40 °F ... +392 °F)

Sliding velocity:
vg = 0 ... 3 m/s (0 ... 16 ft/s)

For applications beyond this range, please inquire.

! It should be noted that the extremal values of each operating parameter cannot be applied at the same time because of their interaction.

Materials

Seal faces: Carbon graphite or Silicon carbide, FDA conform
Seats: Silicon carbide, FDA conform
Secondary seals and metallic parts acc. to application and customers' requirement.

Standards and approvals

- FDA
- EG 1935/2004
- USP Class VI
- ATEX
- DIN 28138 (mechanical seals for agitator shafts)
- DIN 28136 T2 (for steel vessels)
- DIN 28141 (flange connection for steel vessels)
- DIN 28154 (shaft end for steel vessels)
- Compliant to TA Luft (German Clean Air Act)

Recommended applications

- Refining technology
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Food and beverage industry
- Agitators
- Reactors

Recommended piping plans

Closed circuit EagleBurgmann TS system, open circuit EagleBurgmann SPA, EagleBurgmann SPN

Product links:
EagleBurgmann TS1000
EagleBurgmann TSA2
EagleBurgmann SPA
EagleBurgmann SPN manual
EagleBurgmann SPN automatic

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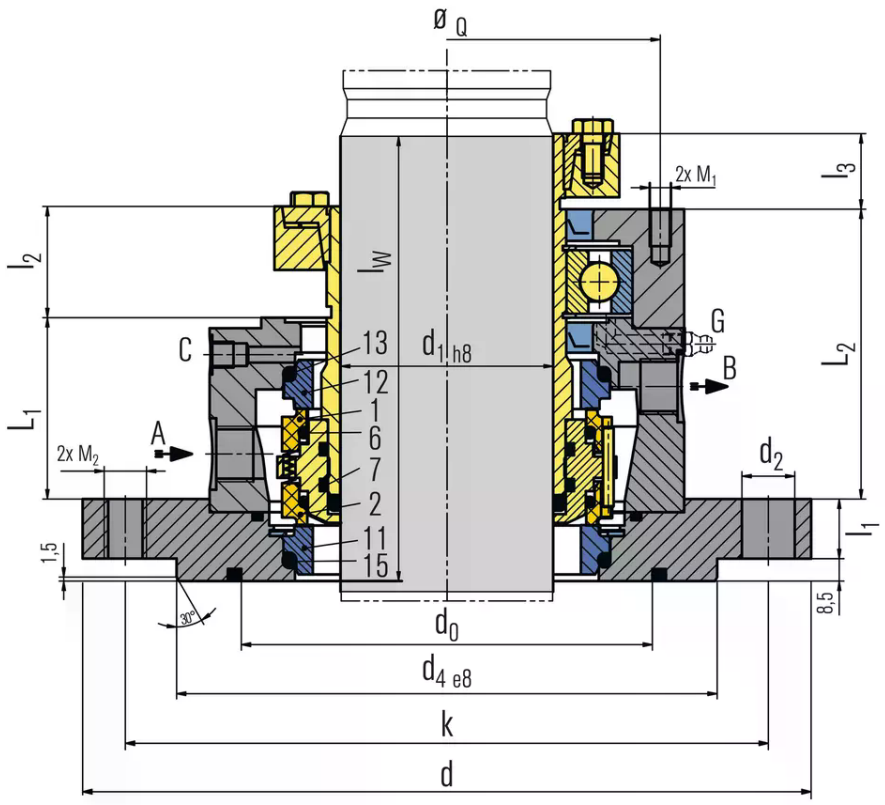
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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



Item	Description
1	Seal face, atmosphere side
2	Seal face, product side
6, 7, 13, 15	O-ring
11	Seat, product side
12	Seat, atmosphere side

Product variants

M481CL
Variant with integrated floating bearing

M451C
Variant for customer-specific connection dimensions. Further customer-specific adaptations are also possible.

Dimensions

d_1 1)	d 1)	n x d_2	d_4	d_0	k	L_1	L_2	L_W 2)	l_1	l_2	l_3	a	M_1	M_2	A,B	C	G
40	175	4x18	110	90	145	60.5	93.5	143	18.5	32.5	22.5	105	M8	M16	G3/8	G1/8	M6
50	240	8x18	176	159	210	63	101.5	148	17.5	26	22	143	M8	M16	G3/8	G1/8	M8X1
60	240	8x18	176	159	210	63	101.5	158	17.5	27	25	143	M8	M16	G3/8	G1/8	M8X1
80	275	8x22	204	155	240	68.5	109.5	168	22.5	42	28.5	161	M8	M20	G1/2	G1/8	M8X1
100	305	8x22	234	190	270	73.5	119	178	20	32	30.5	195	M10	M20	G1/2	G1/8	M8X1
125	330	8x22	260	215	295	80.5	134	203	22.5	39	38	231	M10	M20	G1/2	G1/8	M8X1

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