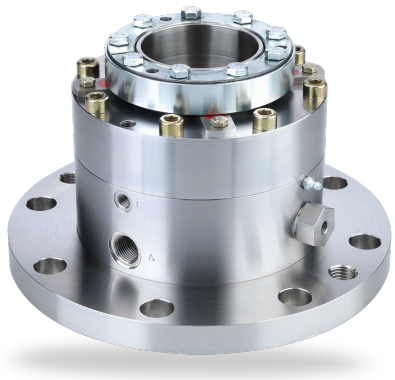
EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

SeccoMix 481

Mechanical seals | Agitator seals | Dry running seals



Features
- For top entry drives
- For steel vessels acc. to DIN resp. Non-DIN
- Nitrogen pressurized dual seal, single seal optional
- Balanced
- Independent of direction of rotation
- Multiple springs rotating
- Dry running
- Cartridge unit

Advantages
- Ready-to-fit and factory-tested unit
- With or without bearing available
- Suitable for pressure reversal e.g. in case of barrier pressure failure
- No contamination of the product by barrier fluid
- Friction-locked connection to the shaft
- Connections to DIN 28138 standards or as required (SeccoMix 451)
- ATEX certification available on request

Operating range
Shaft diameter:
d1 = 40 ... 220 mm (1.57" ... 8.66")
Pressure: p1 = vacuum ... 6 bar (87 PSI)
Temperature: t1 = -20 °C ... +200 (250*) °C
(-4 °F ... +392 (482*) °F)
Sliding velocity: vg = 0 ... 2 m/s (0 ... 6 ft/s)

For applications beyond this range, please inquire.

* with cooling flange

! 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 face: Carbon graphite, FDA conform
Seat: Silicon carbide, FDA conform
Secondary seals and metal parts according to application and customer's specifications.

Standards and approvals
- FDA
- ATEX
- DIN 28138 (mechanical seals for agitator shafts)
- DIN 28136 T2 (steel vessels)
- DIN 28141 (flange connection for steel vessels)
- DIN 28154 (shaft end for steel vessels)
- TA-Luft-konform

Notes
Options:
- Cooling or heating flange
- Wear trap with flush
- Wear trap with flush and cooling / heating flange
- Polymerization barrier
- Axial expansion joint (shaft movement)
- Wiper ring (shaft movement)

Please inquire.

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

Recommended piping plans

eagleburgmann.com
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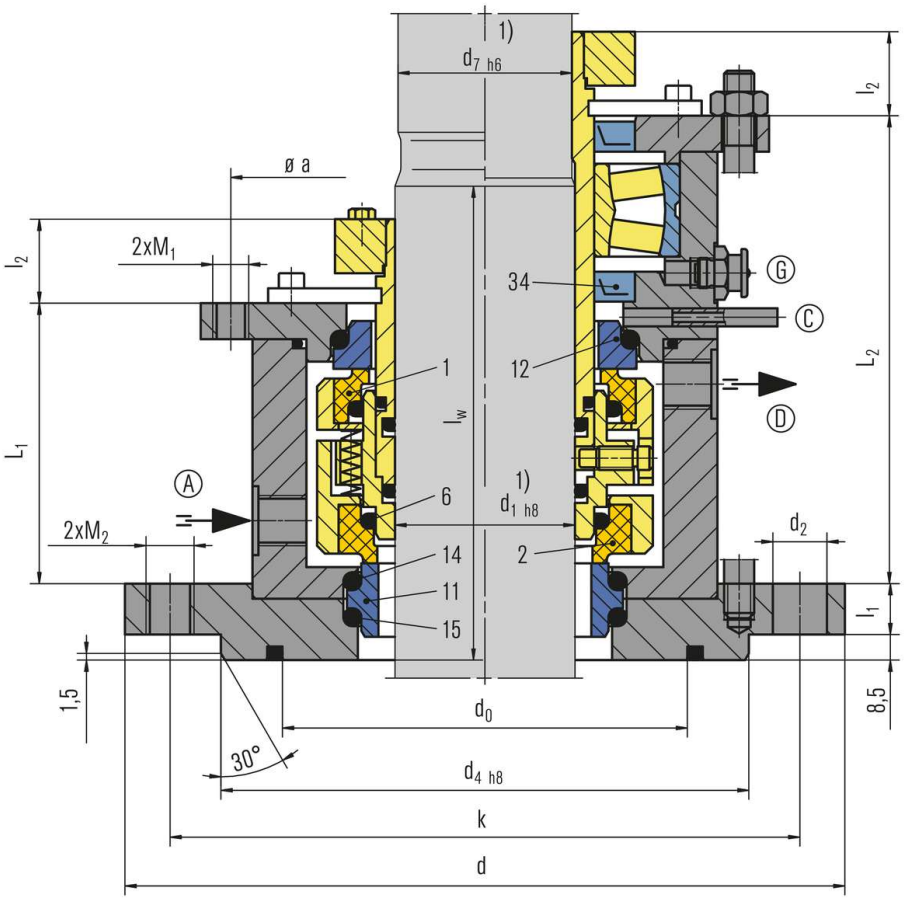
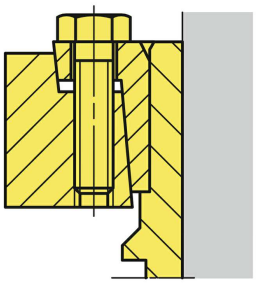


Gas supply
EagleBurgmann GSS4015/A400-D0
for dual seals SeccoMix 481...D..

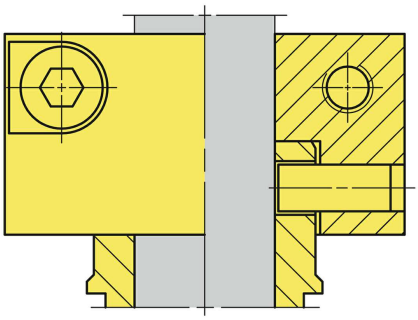
Item	Description
1	Seal face, atmosphere side
2	Seal face, product side
6, 14, 15	O-Ring
11	Seat, product side
12	Seat, atmosphere side
34	Lip seal

Torque transmissions

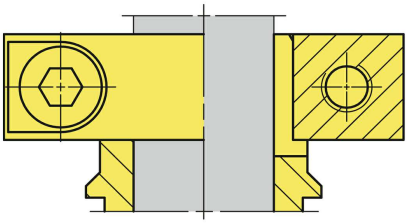
Shrink disk



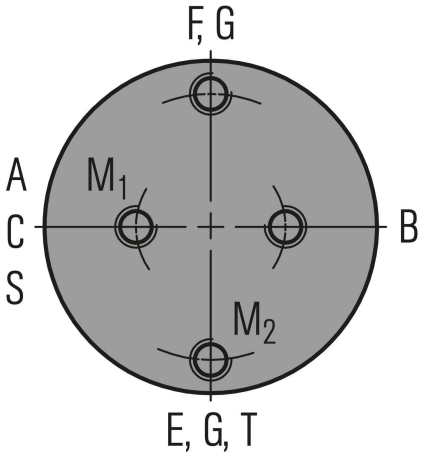
Clamping ring with pin



Clamping ring

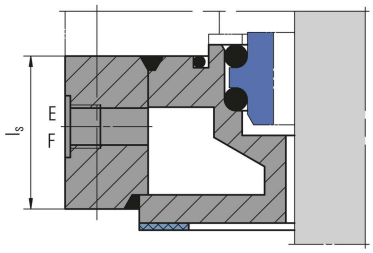


Installation, details, options

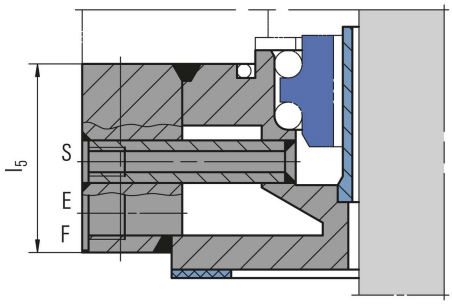


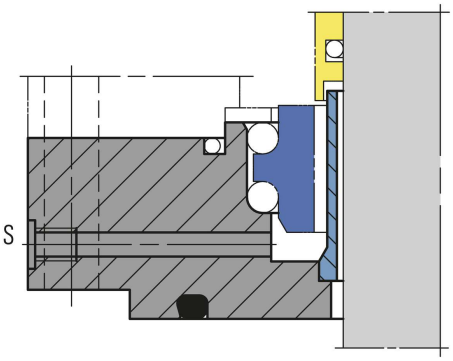
Supply connections
Designation and position acc. to DIN 28138 T3.
A Barrier gas IN
B Barrier gas OUT
C Drainage
E Cooling IN
F Cooling OUT
G Grease
S Flush
T Temperature metering
For reasons of standardization, the supply connections of single seals are matched to those of the double seals.

Cooling flange
Can be used alternatively as a heating flange.



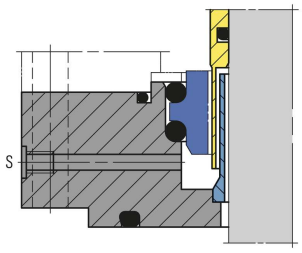
Wear trap
with flush and cooling / heating flange.



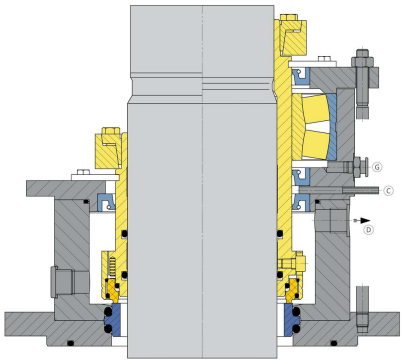


Wear trap
with flush.

Polymerization barrier
Can be used alternatively as wear trap with flush.



Product variants



SeccoMix 481
Single seal
SeccoMix 481L
Single seal with integrated floating bearing.
SeccoMix 451
All types of the SeccoMix 481 range are also available for unstepped shafts. Seal identification: SeccoMix 451...
Customized design or e.g. different torque transmissions are available.

Dimensions

d_1 [1]	d_7 [1]	d	n x d_2	d_4	d_0	k	L_1	L_2	L_w [2]	l_1	l_2	A	M_1	M_1	A, B
40	38	175	4x18	110	90	145	87	136	143	15	28	122	M12	M16	G3/8
50	48	240	8x18	176	135	210	89	149	148	17	28	157	M12	M16	G3/8
60	58	240	8x18	176	135	210	93.5	156	158	17	28	168	M12	M16	G3/8
80	78	275	8x22	204	155	240	104.5	189	168	20	34	203	M16	M20	G1/2
100	98	305	8x22	234	190	270	109	190	178	20	34	228	M16	M20	G1/2
125	120	330	8x22	260	215	295	110	205	203	20	40	268	M20	M20	G1/2
140	135	395	12x22	313	250	350	124	222	208	20	40	285	M20	M20	G1/2
160	150	395	12x22	313	265	350	127.5	219.5	213	25	40	297	M20	M20	G1/2
180	170	445	12x22	364	310	400	132.5	230	233	25	45	332	M24	M20	G1/2
200	190	445	12x22	364	310	400	137.5	237.5	243	25	45	352	M24	M20	G1/2
220	210	505	16x22	422	340	460	149.5	249.5	263	25	50	381	M24	M20	G1/2

Dimensions in millimeter
1) Shaft diameters d_1 and d_7 to DIN 28154
2) Shaft step to DIN 28154