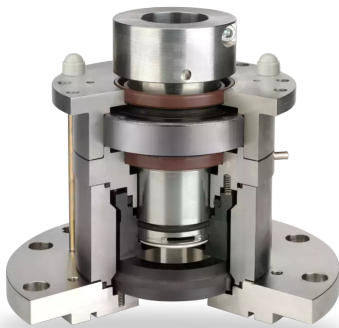


RELY ON EXCELLENCE

AGSZ

Mechanical Seals | Agitator seals | Gas-lubricated seals



Features

- For top entry drives
- Double seal
- Balanced
- Independent of direction of rotation
- Gas-lubricated
- Cartridge unit

Notes

Options:

- Cooling resp. heating flange
- Flush
- Hygienic flange

Advantages

- Ready-to-fit and factory-tested unit
- Central rotating seat
- Torque transmission by clamping ring for large axial movements
- Non-contacting operation
- No friction on the seal faces, no heat generated at the seal or in the medium
- ATEX certification on request

Operating range

Shaft diameter:

d1 = 40 ... 220 mm (1.6" ... 8.7")

Pressure:

p1 = vacuum ... 6 bar (87 PSI),

Δp = min. 3 bar (44 PSI), p3 = 9 bar (131 PSI)

Temperature:

t1 = -20 °C ... +200 (+250*) °C

(-4 °F ... +392 (+482*) °F)

Sliding velocity:

vg = 0 ... 5 m/s (0 ... 16 ft/s),

higher velocities on request.

* 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 faces and seats: Silicon carbide, FDA conform

Secondary seals and metallic parts acc. to application and customers' requirement.

Standards and approvals

- FDA
- 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)
- DIN 28136 T3 (for glass-lined vessels)
- DIN 28137 T2 (flange connection for glass-lined vessels)
- DIN 28159 (shaft end for glass-lined vessels)
- Compliant to TA Luft (German Clean Air Act)

Recommended applications

- Gases and liquids
- Media which require high purity
- Chemical industry
- Food and beverage industry
- Pharmaceutical industry
- Agitators
- Reactors

Recommended piping plans

Gas supply by EagleBurgmann

GSS4015/A400-D0,

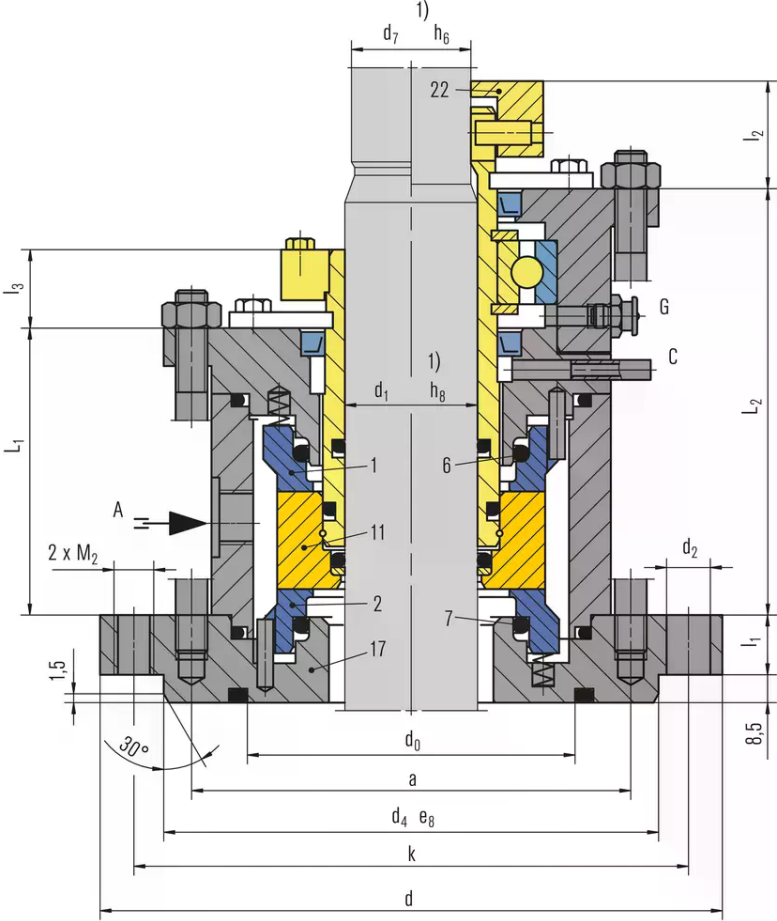
GSS4016/A250-D1 or GSS4016/A350-D1.

Note: To assure a sufficient supply of the mechanical seal, pressure at entry of the supply system must be min. 3 bar (44 PSI) above max. barrier pressure always.

Product link:

[EagleBurgmann GSS](#)

RELY ON EXCELLENCE

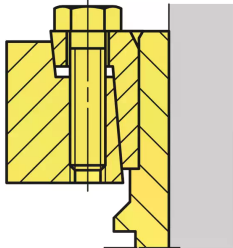


Item	Description
1	Seal face, atmosphere side
2	Seal face, product side
6, 7	O-Ring
11	Seat
17	Flange
22	Clamping ring

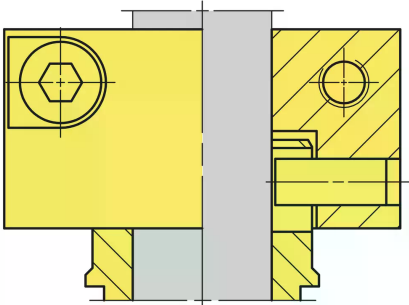
RELY ON EXCELLENCE

Torque transmissions

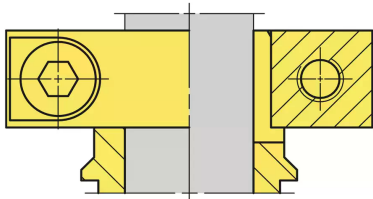
Shrink disk



Clamping ring with pin



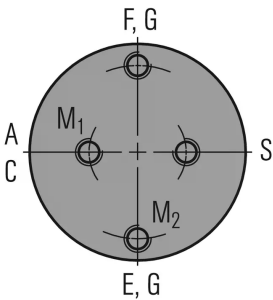
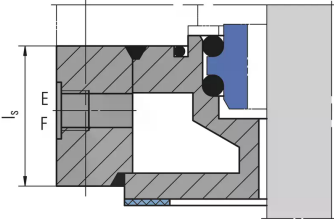
Clamping ring



RELY ON EXCELLENCE

Installation, details, options

Cooling flange
Can be used alternatively as a heating flange.



Supply connections
Designation and positions of supply connections,
pull-off and jacket threads
acc. to DIN 28138 T3.

- A Barrier gas IN
- C Leakage
- E Cooling IN
- F Cooling OUT
- S Flush
- G Grease

RELY ON EXCELLENCE

Product variants

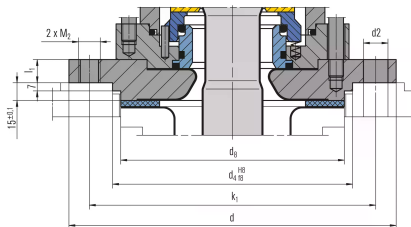
AGSZ461K(L)-D

Double seal (with integrated bearing) for glass-lined vessels to DIN 28136, connection flange to DIN 28137 and shaft ends to DIN 28159.

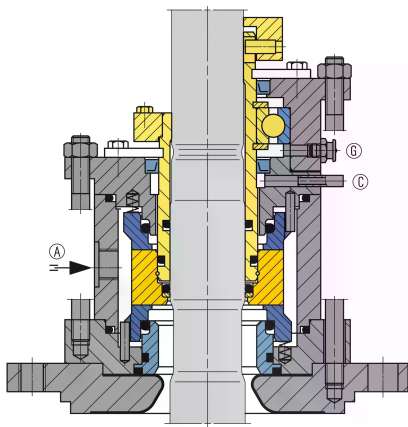
AGSZ491K(L)-D

Variant with special connection dimensions for glass-lined vessels.

AGSZ461K(L)-D Flange connection acc. to DIN 28137
T2 for nominal diameters 40 ... 100.



AGSZ461K(L)-D Flange connection acc. to DIN 28137
T2 for nominal diameters 125 ... 161.



AGSZ451K(L)-D

Version with special connection dimensions or unstepped shafts. For steel vessels.

RELY ON EXCELLENCE

Dimensions

d ₁)	d ₇)	Nominal size	Flange size ²⁾	d	nx _d ₂	d ₄	nx _d ₅	d ₆	d ₇	k ₁	k ₂	l ₁	l ₂	l ₁	l ₂	l ₃	l ₄	l ₅	M ₁	M ₂	A
40	38	40	E125	175	4x18	110	-	-	102	145	-	142	184	25	35	28	50	50	M12	M16	G3/8
50	48	50	E200	240	8x18	176	-	-	138	210	-	147	195	25	40	28	50	50	M12	M16	G3/8
60	58	60	E250	275	8x22	204	-	-	188	240	-	158	203	25	42	28	50	60	M12	M20	G3/8
80	78	80	E300	305	8x22	234	-	-	212	270	-	170	240	30	45	34	60	60	M16	M20	G1/2
100	98	100	E400	395	12x22	313	-	-	268	350	-	177	240	30	52	34	60	60	M16	M20	G1/2
100	98	100	E500	395	12x22	313	-	-	268	350	-	177	240	30	52	34	60	60	M16	M20	G1/2
125	120	125	E700	505	4x22	422	12x22	320	306	460	350	208	266	30	75	40	60	80	M20	M20	G1/2
140	135	140	E700	505	4x22	422	12x22	320	306	460	350	223	282	30	79	40	60	80	M20	M20	G1/2
160	150	160	E700	505	4x22	422	12x22	320	306	460	350	228	282	30	77	40	60	85	M20	M20	G1/2
160	150	160	E900	505	4x22	422	12x22	320	306	460	350	228	282	30	77	40	60	85	M20	M20	G1/2
160	150	161	E901	565	4x26	474	12x22	370	356	515	400	228	282	30	77	40	60	85	M20	M20	G1/2

AGSZ461 - Dimensions in millimeter 1) Shaft diameters d-1~ and d-7~ to DIN 28159 2) Flange size to DIN 28137 T2

d ₁)	d ₇)	d	nx _d ₂	d ₄	d ₀	k	L ₁	L ₂	L _w 1)	l ₁	l ₂	l ₃	A	M ₁	M ₂	A, B
40	38	175	4x18	110	90	145	81	137	143	15	35	28	122	M12	M16	G3/8
50	48	240	8x18	176	135	210	82.5	130.5	148	17	42	28	155	M12	M16	G3/8
60	58	240	8x18	176	135	210	78.5	128	158	18	39	28	176	M12	M16	G3/8
80	78	275	8x22	204	155	240	94.5	146	168	20	50	34	203	M16	M20	G1/2
100	98	305	8x22	234	190	270	95	156.5	178	20	56.5	34	228	M16	M20	G1/2
125	120	330	8x22	260	215	295	95	163.5	203	20	60	39	268	M20	M20	G1/2
140	135	395	12x22	313	250	350	97	168.5	208	20	82	41	285	M20	M20	G1/2
160	150	395	12x22	313	265	350	97	176.5	213	25	81	41	302	M20	M20	G1/2
180	170	445	12x22	364	310	400	-	-	233	25	-	-	332	M24	M20	G1/2
200	190	445	12x22	364	310	400	-	-	243	25	-	-	352	M24	M20	G1/2
220	210	505	16x22	422	340	460	-	-	263	25	-	-	-	M24	M20	G1/2

AGSZ481 - Dimensions in millimeter 1) Shaft diameters d-1~ and d-7~ to DIN 28154