

Mechanical seal ESD34G

double-acting liquid lubricated

Function and application

- Double-acting liquid lubricated mechanical seal
- Two identical pairs of seal rings in a back-to-back arrangement
- Ideal mechanical seal for applications for medium pressure range up to 40 bar (abs.)
- Use of modular design opens up many different extension options
- Mechanical seal used most in agitators worldwide

Advantages

- Life cycle cost savings due to extremely robust construction
- Use of FEA ensures optimized stress distribution in every seal ring
- Special spring designs ensure uniform pre-tensioned conditions even at significant agitator shaft displacements
- Almost zero-leakage under the roughest conditions

Working limits

Operating pressure:	Vacuum ... 40 bar (abs.)
Vessel temperature:	-50...+400°C
Shaft size:	40...220 mm
Sliding speed:	0...5 m/s
Certification:	Acc. to ATEX 2014/34/EU

Materials

Housing:	Stainless steel
Product-wetted parts:	Stainless steel, Hastelloy, Titanium, other special materials
Seal rings:	Carbon, Silicon Carbide, etc.
O-rings:	FKM (Viton), EPDM, FFKM (Kalrez, Chemraz, etc.), special materials
FDA approval:	Possible for all product-wetted parts

Applications

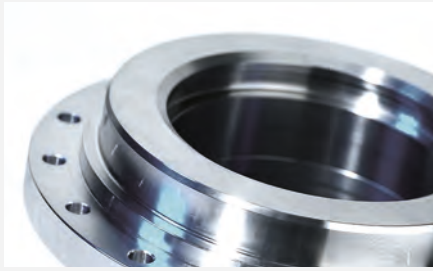
- Bulk chemicals
- Polymers
- Specialty chemicals
- Formulated consumer products
- Pharmaceutical products and cosmetics
- Biofuels and bio refineries
- Hydrometallurgy

Accessories

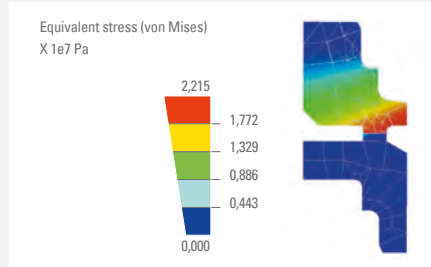
- Short heat trap for cooling
- Water jacket for cooling
- Collector tray for leakage
- Flushing attachment



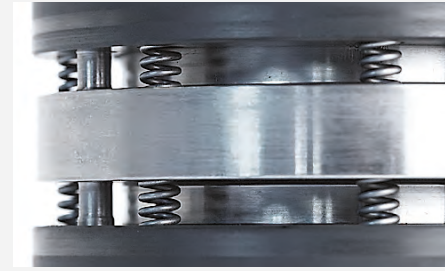
EKATO



Low life cycle costs
due to robust design.



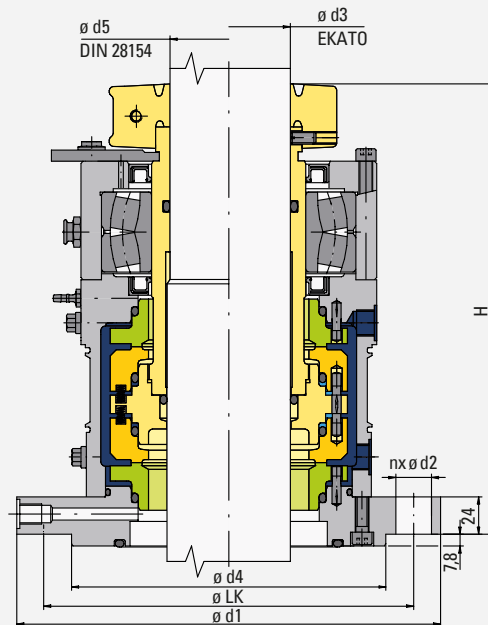
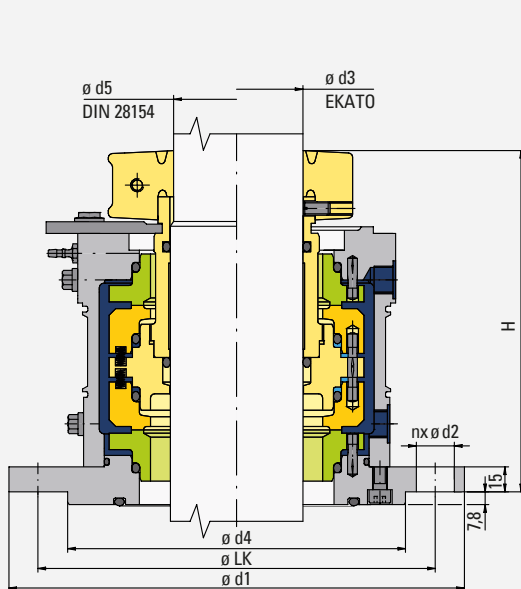
Optimized load distribution
in a seal ring by the use of FEA.



Almost zero-leakage
even under the roughest conditions.
Special spring designs ensure uniform
pre-tensioned conditions, also in cases
of agitator shaft deflection.

ESD34GJ

ESD34GD



Seal type / size	d1	d3	d4	d5	LK	n x d2	H
ESD34G / 040	175	40	110	38	145	4 x 18	188
ESD34G / 060	240	60	176	58	210	8 x 18	210
ESD34G / 080	275	80	204	78	240	8 x 23	213
ESD34G / 100	305	100	234	98	270	8 x 23	212
ESD34G / 120	330	120	260	-	295	8 x 23	243
ESD34G / 140	395	140	313	135	350	12 x 23	250
ESD34G / 160	395	160	313	150	350	12 x 23	271
ESD34G / 180	445	180	364	170	400	12 x 23	286
ESD34G / 200	445	200	364	190	400	12 x 23	304
ESD34G / 220	505	220	422	210	460	26 x 23	332

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ESD34G / 040	175	40	110	38	145	4 x 18	227
ESD34G / 060	240	60	176	58	210	8 x 18	270
ESD34G / 080	275	80	204	78	240	8 x 23	292
ESD34G / 100	305	100	234	98	270	8 x 23	281
ESD34G / 120	330	120	260	-	295	8 x 23	324
ESD34G / 140	395	140	313	135	350	12 x 23	340
ESD34G / 160	395	160	313	150	350	12 x 23	358
ESD34G / 180	445	180	364	170	400	12 x 23	366
ESD34G / 200	445	200	364	190	400	12 x 23	346
ESD34G / 220	505	220	422	210	460	26 x 23	374

All dimensions in mm. Other sizes available on request. Technical data are subject to changes.