

Mechanical seal ESD42

product lubricated

ESD42

Function

- Single-acting product lubricated mechanical seal
- Sealing of abrasive suspensions
- Used in flooded side entry installations
- Mechanical seal most commonly used in FGD agitators worldwide

Advantages

- Lubricated and cooled by the product
- no additional hydraulic installations required
- Special plastics in product wetted parts provide greater protection against caking and corrosion
- Shut-off device for replacement of mechanical seals without emptying the vessel

Working limits

Operating pressure:	Vacuum ... 7 bar (abs.)
Vessel temperature:	-20...+80°C
Shaft size:	40...120 mm
Sliding speed:	0...5 m/s
Certification:	Acc. to ATEX 2014/34/EU

Materials

Housing:	Cast iron
Product-wetted parts:	Stainless steel, Alloy and other special polymers
Seal rings:	Silicon Carbide
O-rings:	FKM, EPDM, FFKM (Kalrez, Chemraz etc.), special materials

Applications

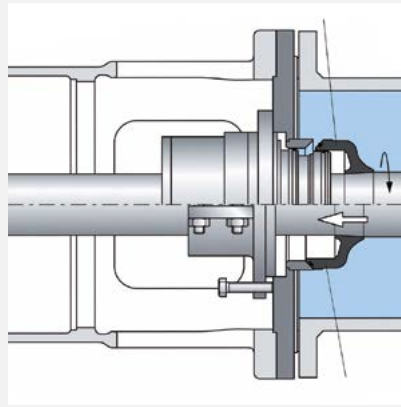
- Flue gas desulfurization (FGD)
- Hydrometallurgy
- Biotechnology





Good protection against scaling and corrosion.

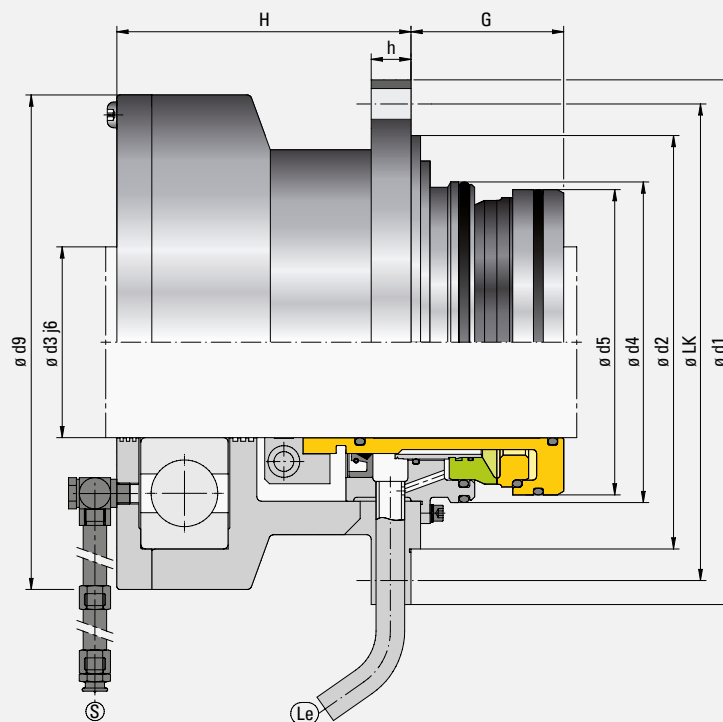
Using high corrosion-resistant special materials and minimizing crevices ensures optimum protection against solids build-up and corrosion.



Mechanical seal replacement also possible during operation.

The standard shut-off facility enables the side-entry ESD42 to be replaced even when the vessel is full.

Design Details ESD42L



Seal type/size	d1	d3	d4	d5	d9	G	H	h	LK	n x d2
ESD42 / 040	176	40	106,6	98	125	81	131	25	155	8 x 11
ESD42 / 060	240	60	144,6	133	172	92	137	25	210	8 x 18
ESD42 / 080	275	80	159,6	150	200	89	147	25	240	8 x 23
ESD42 / 100	305	100	181,6	172	255	92	166	25	270	8 x 23
ESD42 / 120	330	120	201,6	192	275	96	166	25	295	8 x 23

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