Mechanical seal ESD42

product lubricated

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

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