Sterile systems: Sterile seal ESD34/44S with installation

Function
- Ideal for sterile processes
- Complete sealing unit including mechanical seal and sterile installation
- Seal liquid condensate cooled by a plate heat exchanger
- Continuous sterilisation of the condensate by fresh steam

Advantages
- Complete sterile system, mechanical seals and sterile installation from a single source
- Ready-to-install cartridge unit
- No gaps: ideal for sterile processes
- ESD sterile installation operates virtually maintenance-free and consumes very little energy
- No lubricants

Working limits
- Operating pressure: Vacuum ... 4.5 bar (abs.)
- Steam temperature: 130°...150°C
- Shaft size: 40...300 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, Tungsten Carbide, etc.
- O-rings: EPDM, FFKM (Kalrez, Chemraz etc.), special elastic materials
- FDA approval: Possible for all product-wetted parts

Applications
- Fermentation
- Specialty chemicals
- Pharmaceutical products and cosmetics
- Biofuels and bio refineries
Technical data are subject to changes.