

Repair and testing service

We have the necessary equipment to perform repair, recovery and transformation work on mechanical seals and cartridge seals: the first step is to diagnose the state of the part and then carry out the necessary cleaning, polishing and lapping processes on the contact surfaces, rectification of parts and replacement of components, among others.

After the repair has been made we check the result in our test facilities through a pressure test in dynamic, static or both conditions, depending on the case.

These facilities provide additional service to our customers, and all our cartridge seals must succeed a static sealing control test at different pressures before delivery.

We provide spare parts for all our cartridges and we can adapt them to different combinations of materials on the contact surfaces and in O-rings, springs, gaskets etc. as well as offering faster and more flexible deliveries. All our operations are guaranteed by a static operating test after handling.



RMS +Kitting

The RMS seal range is compatible with the best known pump brands: Flygt®, Grundfos®, Sarlin®, ABS®, Alfal-Laval®, Hilge®, APV®, Fristam®, etc.; they are mechanical seals specially designed for wastewater, heating, food and beverage, pharmaceutical pumps and in a wide range of applications in all industrial sectors.

In most cases, when the pump is repaired the mechanical seal is not the only element that is replaced. The renewal of other parts is also recommended, such as O-rings or elements other seals with special profiles, bearings, pins, flat gasket joints, etc. We provide kits with these elements which we can supply along with the mechanical seal.



Auxiliary products

The auxiliary systems are provided with the mechanical seals in uses in which the integrity of the sealing must be guaranteed. These include tanks reservoirs for barrier and quench fluids that may include elements for controlling pressures, temperatures, levels, etc.



Standards

Our mechanical seals are compliant with the following standards for industries subject to the strictest regulations:



ATEX

Mechanical seals which are appropriate for installing in equipment certified in categories 2 and 3 of group II (2 G / D) cT2 in accordance with Directive 2014/34 / EU (ATEX) of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to equipment and protective systems for use in potentially explosive atmospheres.



European Regulation (EC) 1935/2004:

This regulation is mandatory in the European Union for all materials in contact with food. It controls the migration of substances from the raw materials to the product with which it is in contact.



FDA Regulation §177.2600, CFR 21

This legislation determines which materials are suitable for contact with food without being harmful for humans.

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693613 - 1 - SMT- 05/20



Reference	Type of Seal	Maximum Pressure (Bar)	Temperature (°C) Min. - Max.	Speed (m/s)	Sector
LSC10B-FQ	OR	40	-40 +220	23	
LSC10	OR	10	-15 +200	20	
LSC25	OR	20	-15 +200	15	
LSC38-FQ	Metal Bellows	20	-15 +200	25	
LSC40 ANSI LSC40 ANSI	OR	25	-15 +200	16	
LSC50-F	OR	10	-40 +150	10	
LSC85	OR	20	-40 +200	25	
LSC211A-FD	OR	20	-15 +200	11	
LSC90	OR	25	-20 +140	20	
LDC38	Bellows	20	-15 +200	20 met.	
LDC40 LDC40 ANSI	OR	25	-15 +200	16	
LDC80	OR	16	-40 +300	5	
LDC90	OR	25	-15 +200	16	

Reference	Type of Seal	Maximum Pressure (Bar)	Temperature (°C) Min. - Max.	Speed (m/s)	Sector
LRB00	Bellows	14	-20 +200	13	
LRB00L	Bellows	14	-20 +200	13	
LRB00U	Bellows	14	-20 +200	13	
LRB01 / LRB01S	Bellows	10	-15 +200	10	
LRB02	Bellows	7	-15 +200	10	
LRB03	Bellows	6	-20 +100	10	
LRB04 / LRB04 A	Bellows	10	-15 +200	10	
LRB05	Bellows	7	-20 +100	10	
LRB06	Bellows	10	-15 +200	10	
LRB17 LRB17A	Bellows	12	-15 +200	10	
LRB17E LRB17KU LRB17NU	Bellows	12	-15 +200	10	
LRB25 LRB25KU LRB25NU	Bellows	20	-15 +200	15	
AR / LRB31	Bellows	6	-20 +140	10	

Reference	Type of Seal	Maximum Pressure (Bar)	Temperature (°C) Min. - Max.	Speed (m/s)	Sector
LRB50	Bellows	20	-15 +200	15	
LMB84	Metal Bellows	20	-40 +200	25	
LMB85	Bellows	20	-40 +200	25	
LMB86	Bellows	20	-75 +425	25	
LTB16	Bellows PTFE	12	-40 +100	16	
PNL	Bellows	12	-20 +200	10	
LMS10D	OR	16	-15 +200	20	
LMS11	OR	10	-15 +200	20	
LMS13	OR	12	-40 +200	20	
LMS14	OR	14	-15 +200	15	
LMS15D	OR	12	-40 +200	20	
LMS20	OR	10	-15 +200	20	
LMS20B	OR	60	-15 +200	25	

Reference	Type of Seal	Maximum Pressure (Bar)	Temperature (°C) Min. - Max.	Speed (m/s)	Sector
LMS22	OR	12	-40 +200	20	
LMS26	OR	50	-20 +140	50	
LMS27	OR	6	-20 +150	2	
LMS28	OR	15	-20 +200	2	
LMS29	OR	25	-15 +200	20	
R5S	OR	25	-15 +200	20	
LWS10	OR	10	-15 +200	20	
LWS10B	OR	25	-50 +220	25	
LWS12	OR	10	-15 +200	20	
LWS30 LWS31	OR	35	-15 +200	20	
LWS70	OR	10	-15 +200	15	
LWS71	OR	10	-15 +200	15	
FH FHC	OR	10	-30 +200	20	

Reference	Type of Seal	Maximum Pressure (Bar)	Temperature (°C) Min. - Max.	Speed (m/s)	Sector
FN / LS15	OR	10	-30 +100	20	
FNNU LS15 DIN	OR	10	-30 +100	20	
LS18 / LS19	OR	10	-20 +200	20	
LS18B	OR	25	-20 +200	15	
RN / LSG0 RNNU / LSG0NN	OR	10	-30 +200	20	
RNB / LSG0B RNBNU / LSG0BNN	OR	50	-30 +200	20	
LS					

TECHNICAL INFORMATION

Arrangement instructions

The alignment of the pump and engine shafts is a decisive factor in ensuring a proper lifespan of the mechanical seal. The alignment, measured for operation with all the conduits connected and duly fixed to the bench, must be within the values established by the pump manufacturer. It is advisable to use a coupling system which is flexible enough to isolate the pump from vibrations in other system elements, such as vibrations due to faulty bearings.

When installing, make sure that the different parts of the mechanical seal do not pass over sharp edges, splines or threads. All edges must be bevelled and rough areas eliminated or rounded. We recommend a bevel angle of approximately 15° and a length of 2 mm for diameters up to 50 mm and 3 mm or more for larger diameters. In the event of requiring lubrication to facilitate installation, we recommend using a water and neutral liquid soap solution. The use of oils and grease (even food-grade oils and grease) is strictly forbidden.

In mechanical seals with rotating parts fixed to the shaft by conical springs or bellows that convey movement, it is advisable to use a mounting cone to insert them. For conical springs the axial thrust will be accompanied by a rotating movement in the same direction as the spring coil. Before starting up the pump, check that the fluid is in contact with the mechanical seal. It is essential to prevent the seal from operating under dry conditions, even for a short length of time.

In the event of using auxiliary devices (Quench, washing flushing, etc.), make sure that the connections are correct.

