

# Mechanical Seals



Fields

# Marine

# Marine

## A world benchmark

The LATTY® certification by the French Navy opens up other markets such as the Merchant Marine, both in France and for export.

## P&O Ferries...

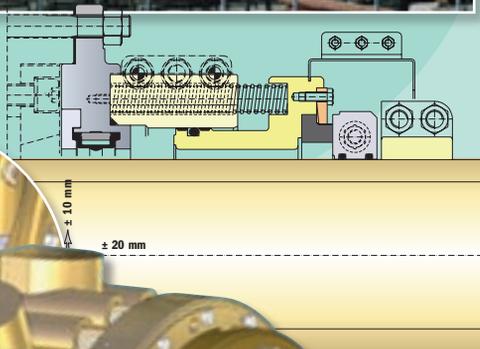
From 250 to 680 mm in diameter, Marine seals meet very demanding standards as well as their specific operating and maintenance conditions.

LATTY® therefore produces a mechanical seal removable at sea while continuing to provide a seal between the seawater and the ship by means of a static inflatable seal.



## Close to the customer

Setting up a partnership logic with potential suppliers of marine ship pumps enables information to be obtained upline and carrying out of an in-depth work in sales in order to obtain contracts.



## Reference case

**B 31210**

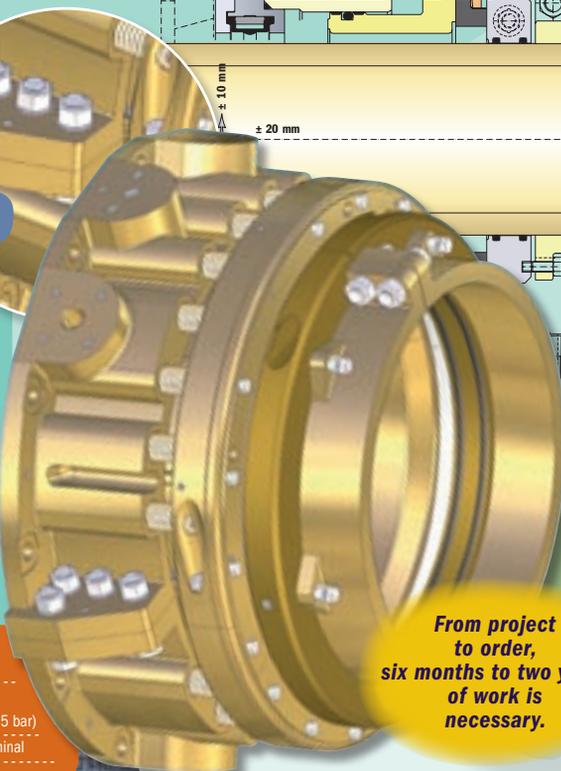
**Ø 525**

## Shaft-line output seal

These mechanical seals use the same principle as the seals in the **B 11 000 series**, designed and validated for high performance applications.

The special feature of its design is essentially that all the components are produced in two halves (divisible).

Fluid sealed	Seawater
Temperature	32 °C
Pressure	0.25 MPa (2,5 bar)
Speed	202 rpm nominal



**From project to order, six months to two years of work is necessary.**

This special feature is an essential part of the definition, in order to reduce installation time but also the job time.

An inflatable seal is incorporated into the assembly, in order to enable inspection, servicing, and if necessary, replacement of the friction faces at sea without having to go into dry-dock.

The friction faces are selected in compliance with marine requirements (corrosion resistance), are suited to the environment (electrolytic action), are able to be produced in two halves and in large dimensions (diameter 380 to 690 mm) and finally, in impact-resistant materials to ensure an extended lifespan.

Acceptance of the assemblies is carried out in the factory under the control of external bodies for validation of the inflatable seal and of the divisible components (in two parts).



Reference case

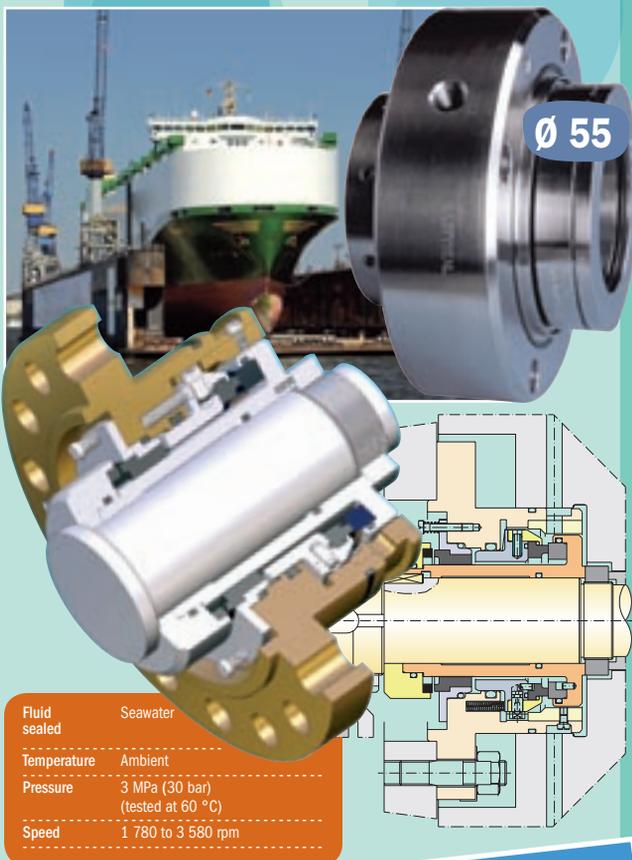
**B 11200 A3**  
+ backup Mechanical Seal

**Mechanical seal for on-board pump**

There are numerous pumps shipboard for diverse applications but always with functioning constraints or special provisions, in terms of zero leakage and absolute safety.

These requirements often need specially adapted designs, as is the case opposite, in which the seal assembly is composed of a main seal but also a contact-free backup seal.

This secondary seal, acts as a backup in case of a breakage on the primary seal, enabling the appropriate maintenance operations or operating modifications to be implemented.



Fluid sealed	Seawater
Temperature	Ambient
Pressure	3 MPa (30 bar) (tested at 60 °C)
Speed	1 780 to 3 580 rpm



Application

**Bulkhead Feed-through Seal**

Ø 418



The castings are produced to a stringent manufacturing specification followed by searching tests and inspections. Complete end of production reports are provided when the assemblies are supplied.

- The bulkhead feed-through seals are designed for use on all surface ships. They provide a seal between all compartments through which the engine shaft passes.
- Their properties are such that they can handle all shaft movements, both axial and radial, and they have an excellent corrosion resistance. The component parts are in two halves.

Fluid sealed	Seawater
Temperature	Ambient
Pressure	0.05 MPa (0.5 bar)
Radial movement	+ or - 5 mm
Axial movement	+ or - 10 mm
Speed	160 rpm

# Our other documents



Food industry



Boiler systems



Chemical industry



Automobile industry



Energy



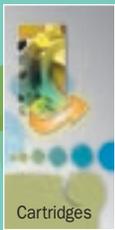
Marine



The water industry



Paper mills



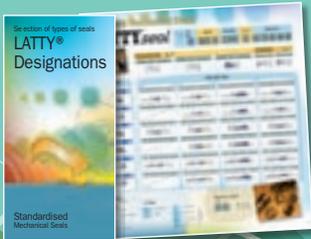
Cartridges



Modules



Standard series and derivatives



Selection of types of seals  
**LATTY®**  
Designations

Standardised Mechanical Seals



Rotating couplings



Custom



Sealing technique



Selection of types of seals

Sealing technique



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Complete range available on...

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