





## 95 years of experience in sealing solutions

A reference in the industrial sealing sector, **GROUPE LATTY®** owes its leadership to its willingness to invest in Research & Development of specific products for your equipment. **GROUPE LATTY®** design and manufacture products that comply with the most demanding industrial requirements.

### GROUPE LATTY® is present in the following sectors...

- PETROCHEMICALS
- ENERGY
- CHEMICALS
- PHARMACEUTICALS
- CRYOGENICS
- FOOD PROCESSING
- NUCLEAR ENERGY

### and offers :

- Complete solutions suitable for each type of pumps
- Complete ranges of industry standard or custom specific products
- Research and testing laboratory
- Achieving type approval of your equipment
- Training adapted to your needs
- A French product, guarantee of quality

### FORMATION



#### A well-trained employee is more skilful and efficient!

Training modules are more specifically dedicated to the selection of sealing solutions for industrial equipments. Oriented towards the implementation and good mounting practices, guarantee of security for your teams and the reliability of your equipment.

Each year many multilingual training, either in our plant or at customer centers are organized on:

- Valves
- Rotary units
- Bolted assemblies

We are an approved training organization.

### LABORATORY R&D



#### Solutions tested on your equipment

**GROUPE LATTY®** invests an average of 5% of its annual turnover in Research and Development for new products and processes. The company has a test laboratory at its factory enabling it to test its products in optimum use conditions, including its clients' own equipment.

Research is essentially based on the resolution of clients' problems, which may be:

- to reduce friction loads,
- to use simple, efficient equipment,
- to reduce maintenance time,
- to have innovative products.

For several years, **GROUPE LATTY®** has invested in its own test laboratories, installed on over 500m<sup>2</sup>, with more than 15 test cells, equipped with precision measurement equipment:

- pressure: from vacuum to 650 bars
- temperature: from -200°C to 650°C with the possibility to carry out thermal shocks
- speed: from 0 to 6000 rpm
- several helium mass spectrometers for leak measurement.

**GROUPE LATTY®** is a member of the Fluid Sealing Association (FSA) and the European Sealing Association (ESA)

### APPROVALS

Our different ranges of mechanicals seals comply with the following certifications, directives and standards:



# CARTRIDGE MECHANICAL SEALS

## LATTY CARTseal® B24



Le **GRUPE LATTY®** has designed a new range of cartridge mechanical seals allowing you to provide new sealing solutions.

CARTseal® B24 mechanical seals bring performance and security to your equipment, thanks to their **FDA, CE 1935-2004, ACS and ATEX certifications** as well as favouring environmental protection.

**CARTseal® B24 : a reliable, economical and technically comprehensive solution.**

### ADVANTAGES

- Stationary mechanical seal: high rotation speeds, accepts angular misalignment of the shaft
- Ready-to-use seal: no adjustment on assembly, reduction in installation maintenance time
- Springs encapsulated in the cartridge box, no loss or improper handling on assembly
- Adapts to any type of equipment
- Made in France



High-performing surface drive system: avoids start-up breakage on adhesive products and allows a uniform distribution of effort.

### APPROVALS

- FDA
- CE 1935/2004
- ACS
- ATEX IIGD IIA-IIB T6 to T3

### DIMENSIONS

Available in cast or machined versions:

- Moulded flanges:  $\varnothing < 70$
- Machined flanges:  $\varnothing > 70$

### OPERATING PARAMETERS (not associated)

- Pressure : 0 to 25 bar (2,5 MPa)
- Temperature : -20°C to +220°C ( -4°F à +428°F)
- Speed : 20 m/s

### TYPES OF INDUSTRIES

- Chemical
- Pharmaceutical
- Automobile
- Agri food
- Boilers
- Paper mills
- Water businesses



### EQUIPMENTS

- Centrifugal pumps
- Volumetric pumps
- Vertical and horizontal agitators
- Mixers





# LATTY CARTseal® B24



CARTseal® B 24610 or B 24810 cartridge mechanical seals with flush, available in several versions.

## CARTseal® B 24610 / B 24810

### Single-effect cartridge

- Exceptional versatility
- Totally adaptable to any type of environment
- Self-turning setting clamps
- Flushing connection in standard version

## CARTseal® B 24610 Q / B 24810 Q

### Version with flush and quench

- Pressure-free fluid feed
- Improves seal life on crystallising, solidifying or vaporising products
- The hydrophilic properties of the quench ring material maintain a permanent thick lubricant film, guaranteeing increased longevity
- Capable of withstanding momentary water cuts
- Flushing connection in standard version

## CARTseal® B 24610 PP / B 24810 PP

### Version without fluid circulation, without flush

- Specially designed for applications where product circulation is **unnecessary or not allowed**
- CARTseal® B 24610 PP / B 24810 PP presents all the well-known advantages of CARTseal® B 24610 with a thinner flange allowing improved lubrication of the friction surfaces

## CARTseal® B 24610 PPQ / B 24810 PPQ

### Version without fluid circulation, without flush and with quench

- Integrates an auxiliary seal acting as a quench
- Specially designed for applications where product circulation is unnecessary or not allowed
- Thinner flange allowing improved lubrication of the friction surfaces





## CARTseal® B 24810 DB

### Version with double-balanced cartridge

- Capable of functioning as double pressurised mechanical seal or tandem seal without barrier pressure
- Optimum sealing flexibility and reliability
- Reduces the space between the sleeve and the rotary face, which allows an increase in the contact surface
- The sleeve has no pins which could be lost and no weld which could reduce the characteristics of the metal

## CARTseal® B 24810 DBSA

### Double-balanced version with insert

- Intended for applications in extremely aggressive and corrosive environments
- The parts in contact with sealing fluid are made from material suitable for aggressive environments (hastelloy, inconel) or with optional coverings

#### Material Options:

- gaskets: perfluorinated
- surfaces: dry friction, high-performance silicon carbide



## CARTseal® B 24810 DBVP

### Double-balanced version and pumping scroll

- Functions as a double pressurised mechanical seal or as a pressure-free tandem seal without barrier pressure
- Integrated pumping scroll (PS) ensuring positive circulation of barrier fluid, thereby avoiding installation of a forced circulation pump
- Pump system depends on the direction of rotation (right or left)





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**Cartridge mechanical seals**  
**CARTseal® B24**

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