CARTseal® B 236

by LATTY®

"Cartridge Version "

LATTYseal B 23

Standard balanced mechanical seal with a single spring washer and pentagonal drive

LATTY international

ISO 9001 VERSION 2000

LATTY® seal B 23

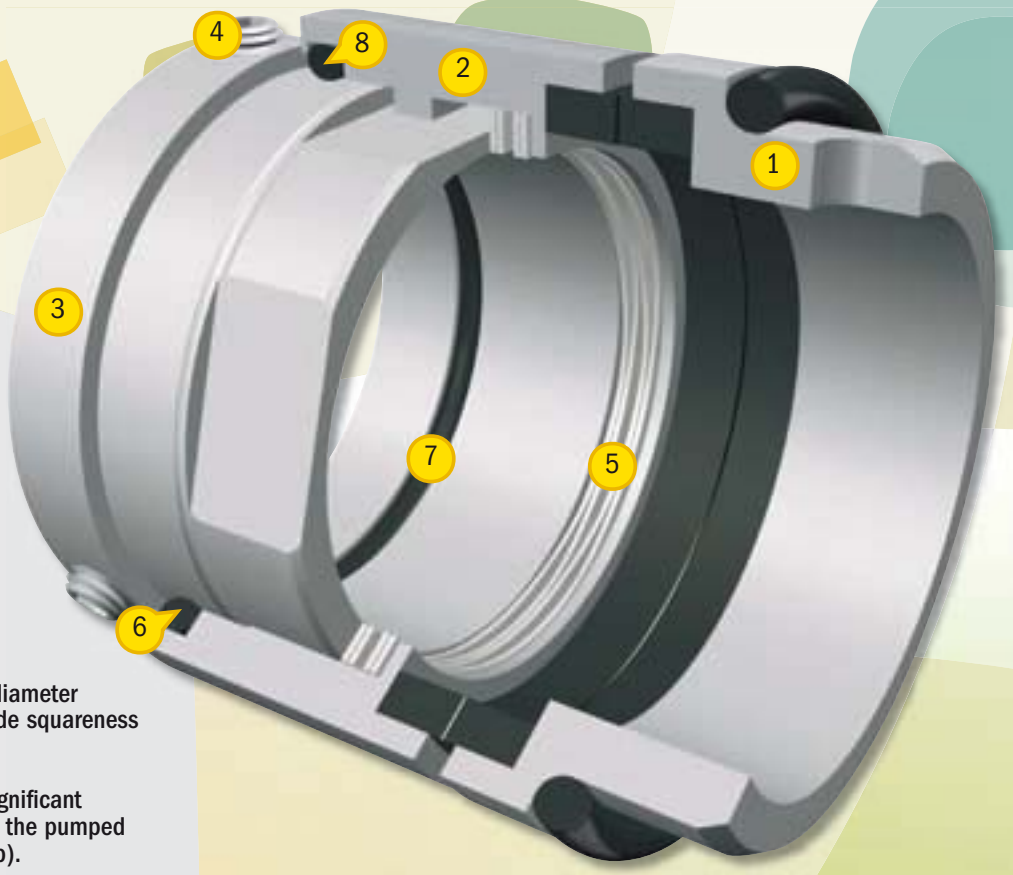
Advantages

- Standard mechanical seal, up to **NF EN 12756/DIN 24960**.
- Independent from the direction of rotation.
- Simplified assembly operation thanks to the special design of the rotary face for the fitting to the compensation sleeve.
- No drive pins, no welding.
- Balanced mechanical seal which provides for a wide range of uses.

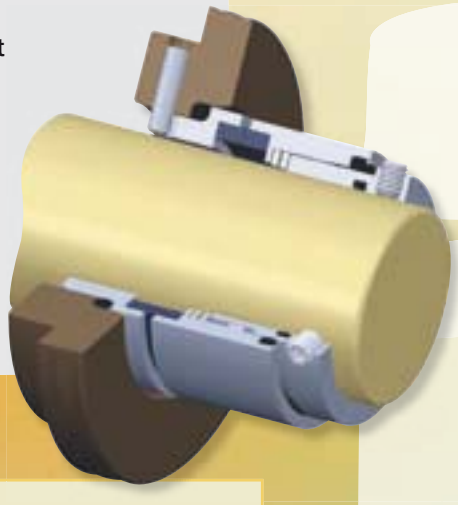
Applications

The areas of applications are huge due to the protection design for the spring washer:

- Pumps conveying slurries for the sugar industry, paper industry, extracting industry, for heavy industries, all simple assemblies possible (cartridge, tandem, quench, etc.).



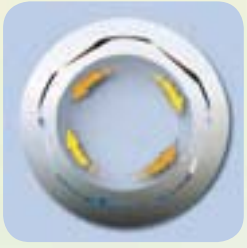
1. Stationary face with chamfered notch and positioned by O-ring.
2. Pentagonal drive which provides for higher mechanical strength for frequent on and off cycles.
3. Compensation sleeve.
4. Fastening by means of two large diameter screws positioned at 90° to provide squareness and drive safety.
5. Single spring washer to provide significant bottoming (spring located outside the pumped fluid and which avoids clogging-up).
6. Half-open groove for the fitting of the O-rings made of different materials.
7. Static O-ring under the drive sleeve (no wear to the shaft).
8. Dynamic O-ring operating constantly on a clean surface.



Standard configuration

O-rings made of fluorinated elastomer (FKM)	(code LATTY®: V)
Spring made of inox 1.4571	(code LATTY®: G2)
Metal holders made of inox 1.4462	(code LATTY®: G7)
Compensation sleeve made of inox 1.4462	(code LATTY®: G7)

Pentagonal drive

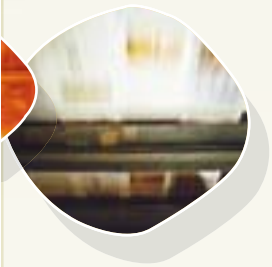


The pentagonal drive system which is independent from the direction of rotation eliminates the use of welded pins, significantly reduces clearances and caulking risks in the case of frequent starting cycles.

Operating parameters:

Shaft diameters	18 mm to 150 mm and 0.750" to 4.000"
Pressure	25 bar*
Temperature	from -20 °C to +160 °C*
Speed	20 m/s*

**Parameters not associated*



Main characteristics:
Multiple uses, simplicity, efficiency!

LATTY®*seal* B 231_B

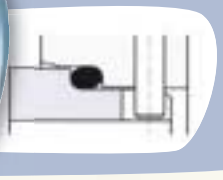
Rotary part

Hard carbon with resin impregnation

Stationary face

LATTY®*seal* B 23110 B.S2

Castchrome Molybdene

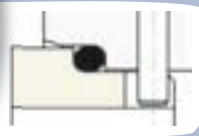


LATTY®*seal* B 23110 B.U3

Massive silicium carbide (Si-Sic)

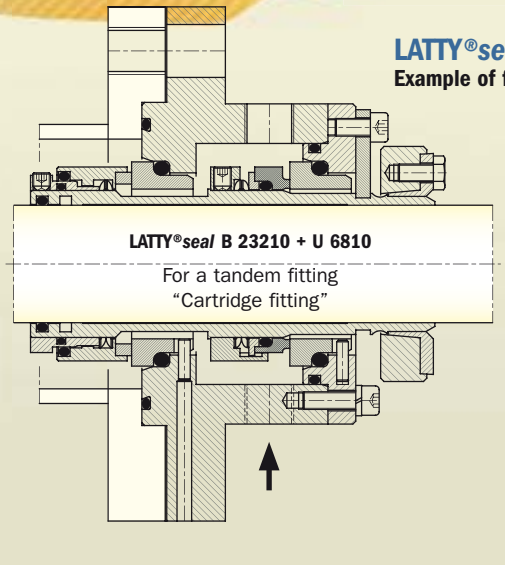
LATTY®*seal* B 23110 B.V

Ceramics (aluminium carbide)



LATTY®*seal* B 23112 B.U3

Shrunk fit silicium carbide stationary (Si-Sic)



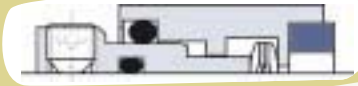
LATTY®*seal* B 23
Example of fitting

LATTY®*seal* B 23210 + U 6810
For a tandem fitting
"Cartridge fitting"

LATTY®*seal* B 232_U3

Rotary part

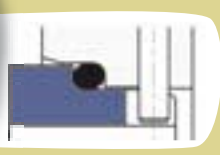
Shrunk fit silicium carbide stationary (Si-Sic)



Stationary face

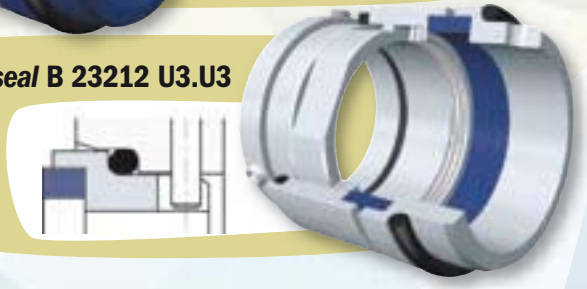
LATTY®*seal* B 23210 U3.U3

Massive silicium carbide (Si-Sic)

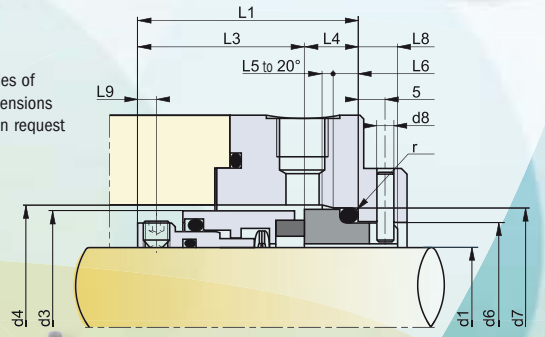


LATTY®*seal* B 23212 U3.U3

Shrunk fit silicium carbide stationary (Si-Sic)



Tables of dimensions upon request



Optional materials:

Face materials

Carbon graphite with metal impregnation:	(A)
Tungsten carbide with nickel binder:	(U2)
Silicium carbide obtained by sintering process (Sic):	(U6)

O-rings:

Ethylen propylen:	(E)
Perfluorcarbon elastomer (FFKM):	(K) or (K2)
Coated with PTFE:	(M1) or (M6)

Metal components

Hastelloy® C 276:	(T5)
Hastelloy® C 22:	(T7)

® Hastelloy, registered trademark of Haynes International Corp.

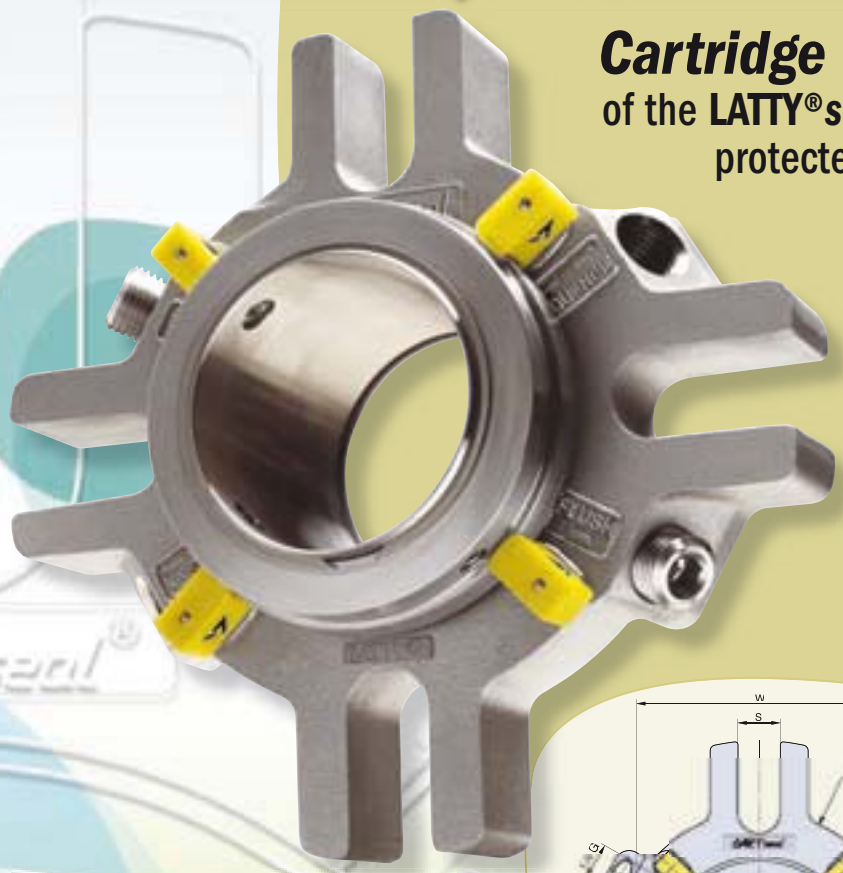
Codes ( ) are internal abbreviations

CARTseal® B 236

by LATTY®

Cartridge Version

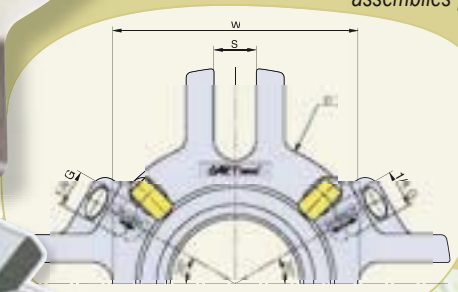
of the **LATTY®*seal* B 23** pentagonal drive, protected spring, mechanical seal.

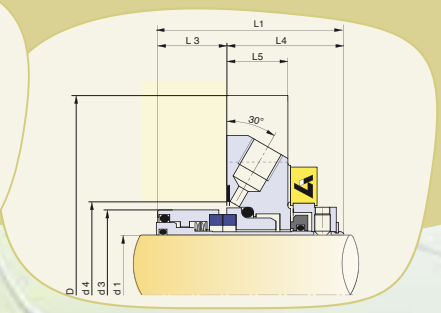


Carbide of Silicium Sintered SiC (U6)

The complete range of high performance with Carbide of Silicium, Sintered SiC (designation as U6 at LATTY®) already equip as standard the carbide versions of **CARTseal® B 236**.
This sintered carbide face material, completely protects the excellent behaviour of friction, thermal conductivity and resistance to temperature shocks. It gives a superior chemical resistance to base acids, which permits a wide range of applications within difficult environments.

- **The areas of applications are huge due to the protection design for the spring washer:**
Pumps conveying slurries for the sugar industry, paper industry, extracting industry, for heavy industries, all simple assemblies possible (cartridge, tandem, quench, etc.).



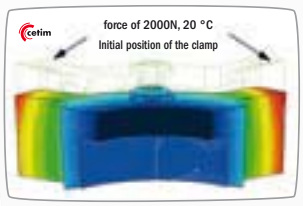


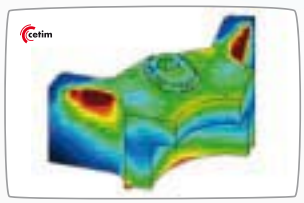
Deformation of the moulded flange of the CARTseal®B 236

At our request, the CETIM determined the evolution of the stresses and movements occurring during clamping of the moulded clamps for mechanical seals.

Modelling was carried out on a dimensional sample under 25 bars of pressure and at temperatures of up to 200 °C.
Under these conditions, the stresses in the clamp generated by applying the required tightening force to obtain sealing are acceptable.

According to report 784184/6J1 by CETIM of December 2005.





LATTY® international s.a.
Your source for all sealing solutions
PLANT AND OFFICE
1, rue Xavier Latty 28160 Brou - France
Tel.: +33 (0)2 37 44 77 77 - Fax: +33 (0)2 37 44 77 99
e-mail: customerservice@latty.com

Codif. 80278 - (11-2006) - CONNECTIS - CHARTRES