INTERNAL BALANCED MECHANICAL SEAL

LATTYseal B23

Industrial Sealing Solutions

GROUPE LATTY®

SEALING CONTROLLED
IN THE MOST SEVERE CONDITIONS

What if GROUPE LATTY's sealing solutions **could truly transform the performance of your installations?**

Is the **safety of your equipment** sufficiently guaranteed to avoid unexpected downtime and protect your processes?

Is your **water consumption** still sustainable given today's requirements for resource efficiency and control?

Does your **mean time between failures (MTBF)** meet your operational continuity goals, or do you experience too many maintenance interventions?

Does your total **cost of ownership (TCO)** reflect optimised operation, or are you paying the hidden price of leaks and efficiency losses?

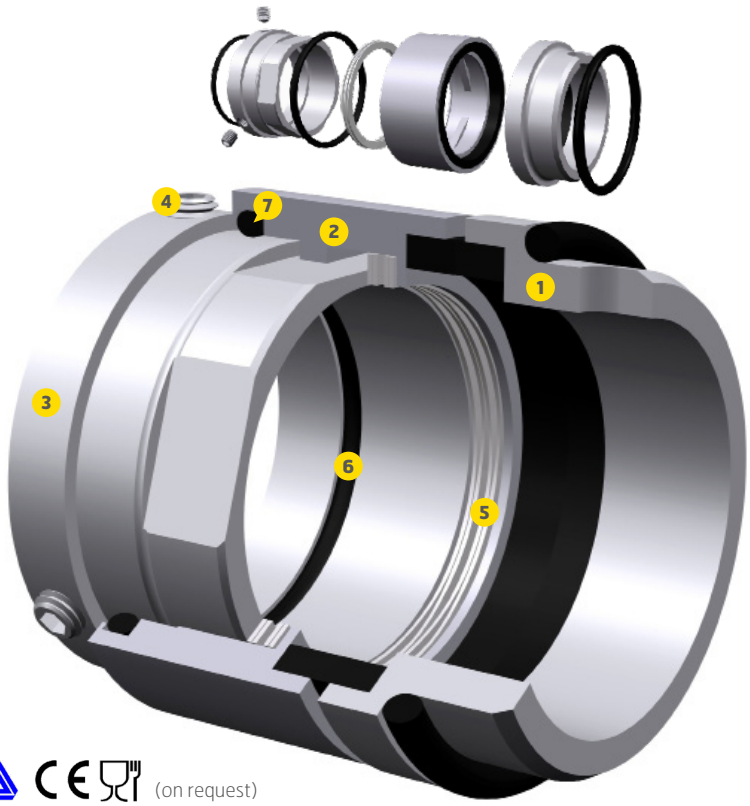
Faced with these multiple challenges, our **LATTYseal B23** mechanical seal **provides a comprehensive and proven solution.**

ADVANTAGES

- **Ideal for clogging and crystallising fluids**, thanks to the pentagonal drive and protected spring.
- **Low operating costs** thanks to the repairability of the shrink-fitted friction surfaces.
- **Longer service life and wide range** of applications thanks to the compensated design.
- **Suitable for corrosive and chemically aggressive fluids** thanks to the Duplex 1.4462 metal body
- **Robust design:** no welds or drive pins
- **Pump shaft protected** by sleeve
- **Simple assembly,** sleeve/rotating element connection by interlocking.
- **Independent of direction of rotation.**

Balanced mechanical seal
with protected spring

1. Fixed stationery with anti-rotation pin slot with O ring sealing.
2. Drive pentagonal allowing increase mechanical resistance during stop/start operations.
3. Compensation sleeve enabling operation above 10 bar(g).
4. Positive drive via two large-diameter grubscrews positioned at 90° ensuring perpendicularity and drive safety.
5. Wave spring face loading reducing axial space requirements (spring protected and anti-clogging).
6. Static O-ring under drive sleeve (no shaft wear).
7. Dynamic O-ring working continuously on a clean surface.



(on request)

NF EN 12756

MATERIALS

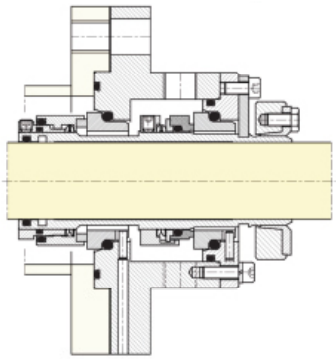
Friction surfaces
- Carbon graphite resin impregnation (B1) / sintered silicon carbide (U6)
- Carbon graphite metal impregnation: (A)*
- Nickel-bonded tungsten carbide: (U2)*
- Carbon graphite for dry friction: (C4)*

O-rings
- Ethylene propylene: (E1)
- Fluorinated elastomer FKM: (V4)
- Perfluorinated elastomer (FFKM): (K) or (K2)*
- PTFE-coated: (M1) or (M6)*

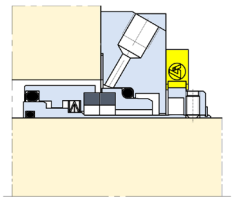
Metal components
- Duplex 1.4462: (G7)
- Stainless steel 1.4571: (G2)
- Hastelloy C 276: (T5)*
- Hastelloy C 22: (T7)*

**only on request*

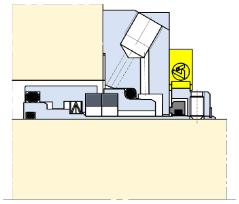
EXAMPLES OF ADAPTATIONS



LATTYseal B23210 + U6810
For tandem application, cartridge mounting



LATTYseal B23612
Cartridge mounting



LATTYseal B23612 Q
Cartridge mounting with quench

CONDITIONS OF USE*	
Shaft diameters	18 mm to 100 mm**
Pressure	25 bar(g)
Temperature	-20°C to +160°C
Speed	20 m/s

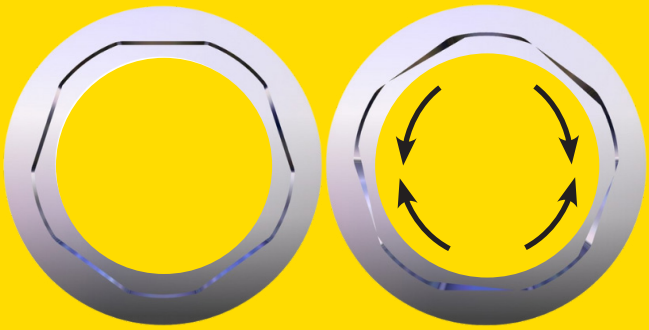
**Speed, temperature and pressure parameters cannot be combined.*
*** Other diameters available on request.*

APPLICATIONS

Recommended for industries that transport bulk products, such as: food processing, paper manufacturing, mining and quarrying, sugar production and other heavy industries.

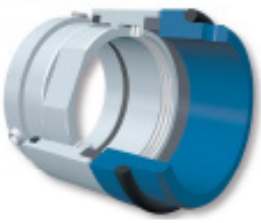
Pentagonal drive

In the event of frequent start-up cycles, the removal of welded pins and the low operating clearances of the pentagonal system significantly reduce the risk of galling and breakage of the mechanical seal.



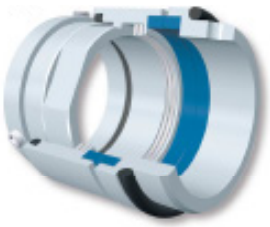
LATTYSEAL B231
Dynamic carbon friction faces

LATTYseal B23112 B U6

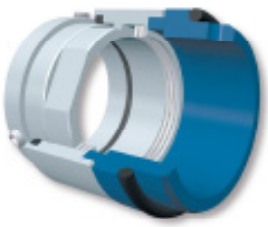


LATTYseal B23110 B U6*

LATTYSEAL B232
SILICON DYNAMIC FRICTION FACES

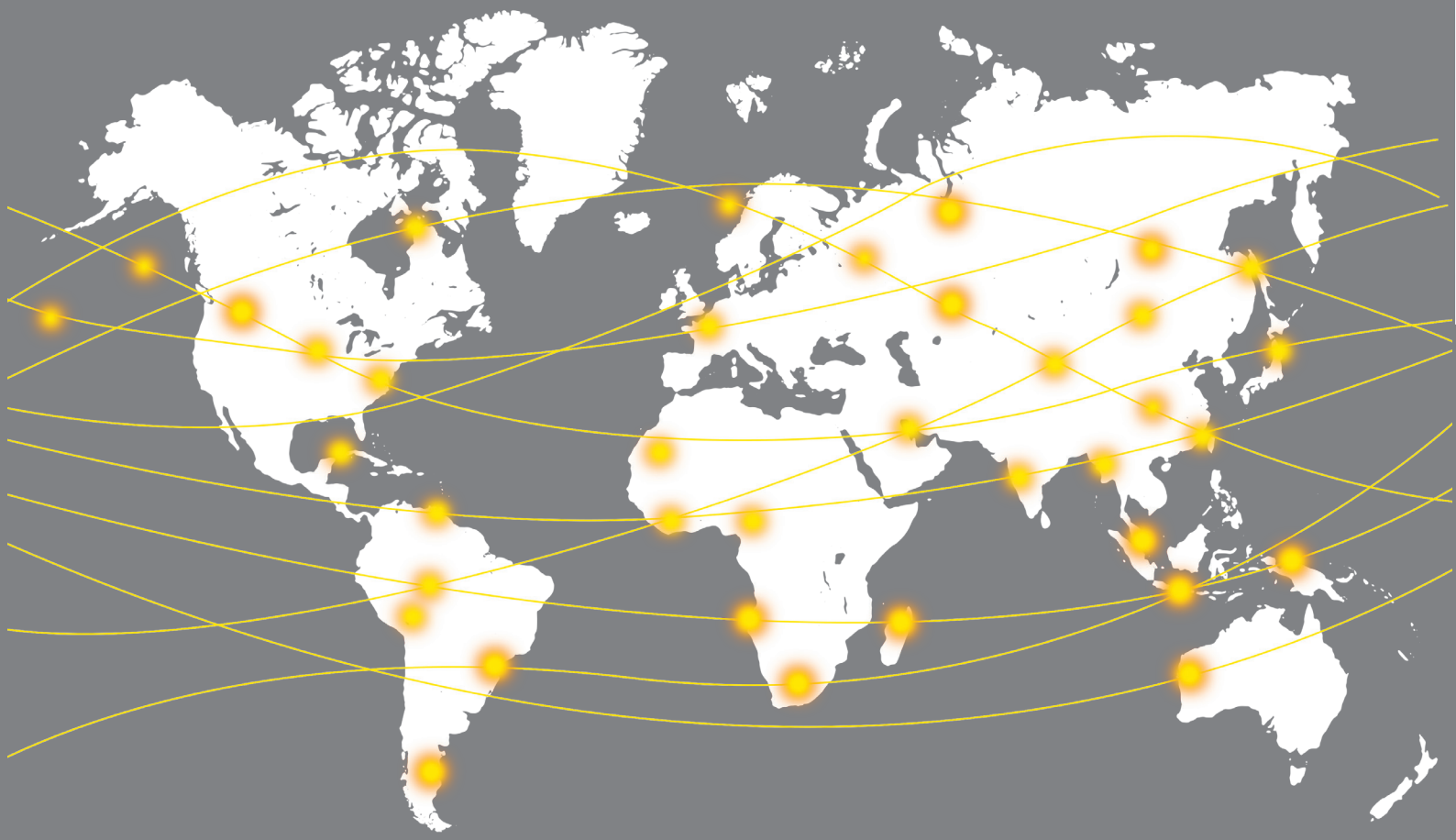


LATTYseal B23212 U6 U6



LATTYseal B23210 U6 U6*

** only on request*



The subsidiaries and service centres of the GROUPE LATTY are at your disposal worldwide to respond to your requests.
Find all our contact details on our website.

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