john crane

Your Name
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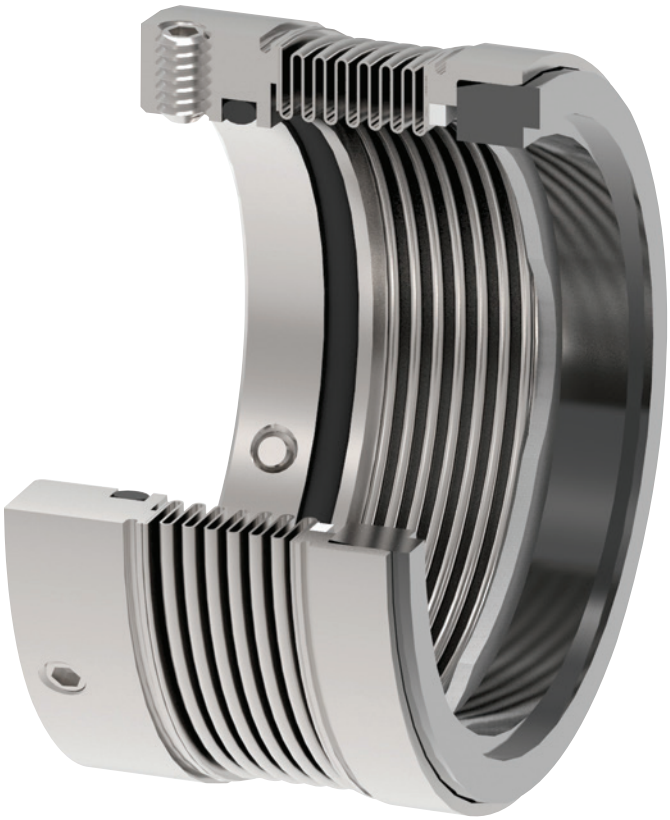
TYPE GL1B

METAL BELLOWS SEAL



DESIGN BENEFITS

- Double-ply formed Inconel® bellows combines strength with axial flexibility
- Smooth open bellows profile ideal for slurries and fibrous liquids
- Available in component or cartridge arrangements
- Static O-ring, eliminates fretting
- Hydraulically balanced dual rotation seal
- Minimum welds required in construction

PRODUCT DESCRIPTION

The GL1B is a general duty, double ply Inconel, rolled metal bellows, single seal. The seal meets the dimensional requirements of DIN 24960 L1K.

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Application Flexibility

The GL1B seal is used for general sealing duties in pumps, mixers, blenders, agitators, compressors and other rotary shaft equipment in pulp and paper, chemical processing, food processing, wastewater treatment and other demanding applications. The combination of the rolled bellows design and materials of construction make this seal suitable for a variety of abrasive applications.

Robust Materials of Construction

The GL1B comes standard with a sintered silicon carbide mating ring and either a carbon or silicon carbide primary ring. A wide variety of O-rings are available to suit your particular application requirements.

The double-ply formed bellows are of high strength, yet flexible, Inconel construction and are suitable for a wide range of applications.

Design Benefits

The open profile design of the bellows allows easy cleaning, making it particularly suitable within the pharmaceutical and food processing industries

With compliance to DIN 24960, ISO 3069 and ANSI B73, it can be fitted to most process pump designs

As a bellows seal it has a lighter spring load, as there is no O-ring drag to overcome. This results in lower face loads, less frictional heat, longer seal life and lower temperatures as the bellows acts as a natural heat sink.

Performance Capabilities

Temperature	Pressure	Speed
-40° to 500°F/-40° to 260°C *(depending on materials used)*	Vacuum to 230 psig/16 barg Special designs available to 435 psig/30 barg *(Consult John Crane Engineering for maximum pressure rating for your application).*	Up to 5,000 fpm/25 ms^{-1}

Together, we will work with you to keep your mission-critical operations up and running with support and guidance from our experienced team.

Consult John Crane Engineering for your specific seal selection.
Inconel is registered trademark of Inco Alloys International Inc.

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