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2009



THE QUEEN'S AWARDS
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INNOVATION
2009



ENVIRONMENTAL TECHNOLOGY

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LabTecta-PB™

PATENT PENDING in over 39 countries.



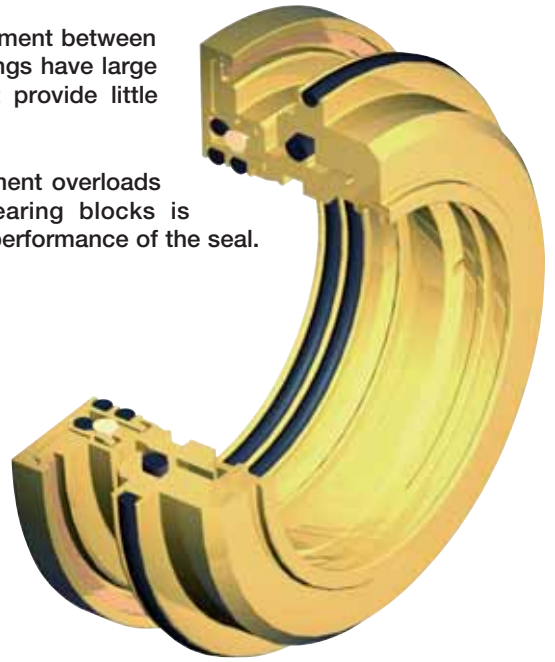
“Engineered for Misalignment”

LabTecta-PB™ - Plummer/Pillow block design

Until now, sealing split bearing blocks has always been an issue. Alignment between the shaft and bearing block can vary significantly. Existing labyrinth rings have large clearances in order to accommodate the angular misalignment but provide little protection against contamination.

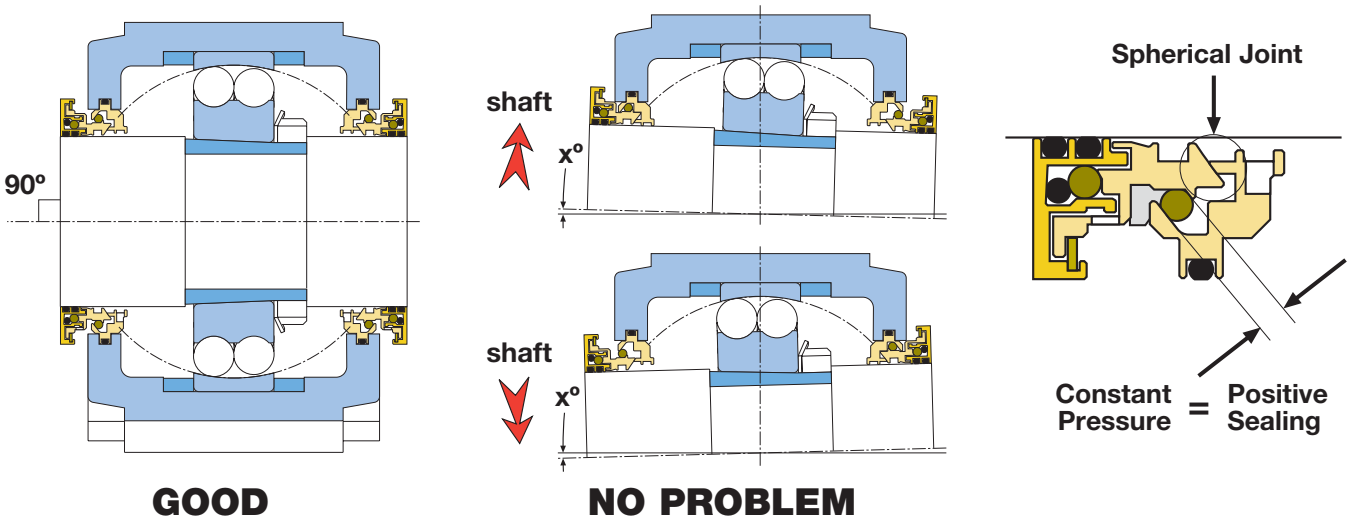
Contact sealing solutions have very short lives because the misalignment overloads the sealing surfaces. The revolutionary AESSEAL® design for bearing blocks is specifically engineered to absorb the misalignment and maximize the performance of the seal. Major benefits are:

- Extended bearing and equipment life
- Better protection against bearing contamination
- Reduced lubrication requirements
- Better lubrication retention
- Reduced operating temperature



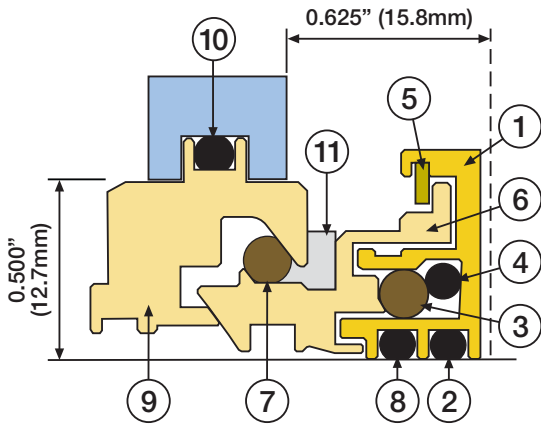
Misalignment? - No problem

The LabTecta-PB™ utilizes a unique two piece stator design that provides a self-aligning joint that allows the seal to align both to the bearing block and the shaft. The joint also provides constant pressure on the static elastomer to provide positive sealing throughout the range of motion.



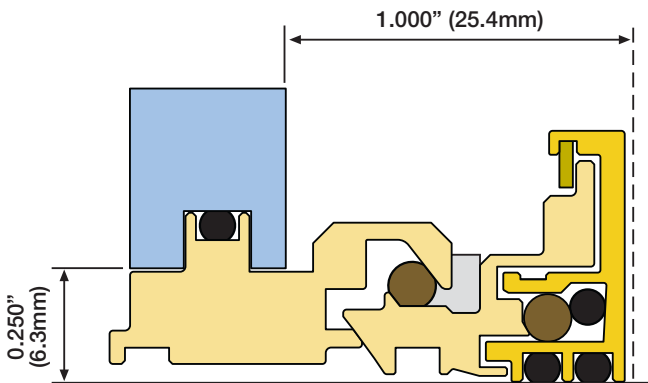
The LabTecta-PB™ accepts the same degree of angular misalignment as ANY standard seal offered by the OEM.

LabTecta-PB™ - Designed to suit Plummer/Pillow block applications



Standard cross section

Dimensions may vary dependent upon size and model. If in doubt, contact the Bearing Protection Division.



Thin cross section design variant

| Item | Description | Material |
|------|--------------------------|-----------------------|
| 1 | LabTecta™ Rotary | Phosphor Bronze |
| 2 | Outboard Rotor O Ring | Viton® |
| 3 | Arknian™ Shut Off Device | Compound Elastomer |
| 4 | Arknian™ Energizer | Viton® |
| 5 | Face Shield | Composite Material |
| 6 | Stator Housing | Phosphor Bronze |
| 7 | Stator Housing O Ring | Viton® |
| 8 | Inboard Rotor O Ring | Viton® |
| 9 | Adaptor | Phosphor Bronze |
| 10 | Adaptor O Ring | Viton® |
| 11 | Flexi-Ring | Oil Resistant Silicon |

Pillow block dimensions are already available for the following models as of January 2008:

| | |
|----------|--|
| SKF® SNL | All housings |
| SKF® SAF | 507, 510, 511, 513, 515, 516, 517, 518, 520, 522, 524, 526, 528, 530, 532, 534 |
| FAG SNV | All housings |

All other models will require dimensions prior to manufacture. Refer to back page for more information.



Pulp & Paper Industry, Canada. LabTecta-PB™ installed on a dryer roll (Case Ref: 3369)

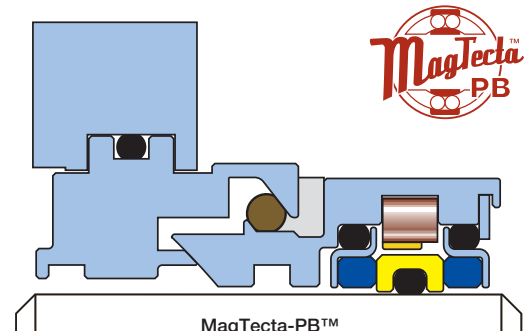
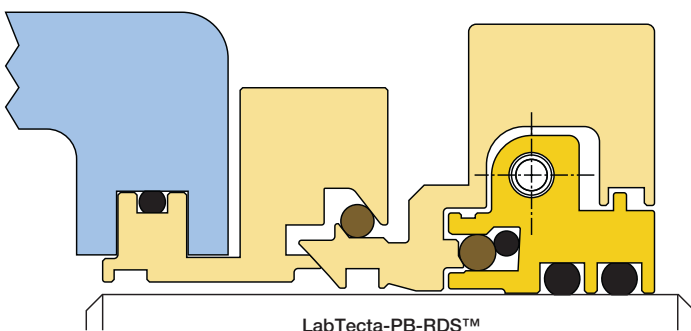


Pulp & Paper Industry, Argentina. 70mm LabTecta-PB™ installed on a SKF® SNL 516-613 pillow block roll (Case Ref: 3217)

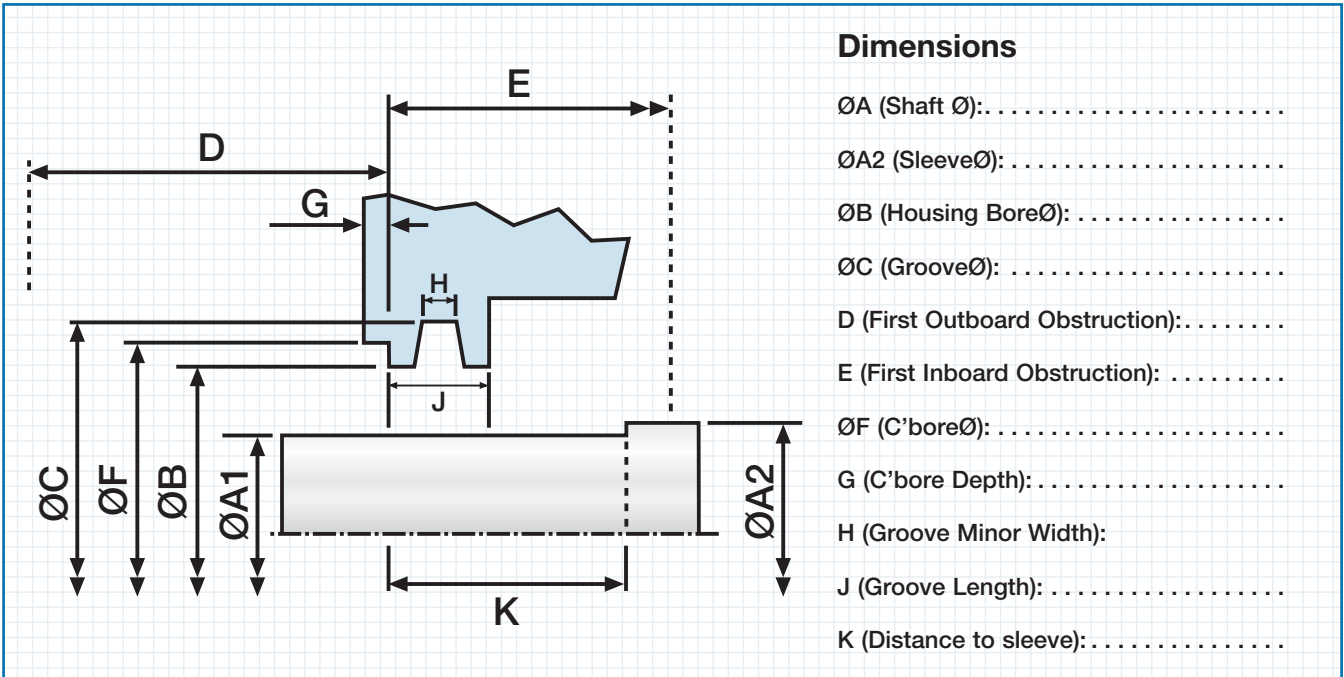


70mm LabTecta-PB™ with Air Purge installed on a centrifugal fan pillow block SKF® SNL 516-613 in Argentina (Case Ref: 3218)

Alternative Designs



Housing Dimensions



Application Data

Block Manufacturer:

Block Number:

Speed:

Bearing Type:

Shaft: Horizontal Vertical

Max. Axial Movement:

Max. Angular Misalignment:

Seal Material: Bronze Stainless Steel

Lubrication Type/System:

Other:

Complete the information above and send to:

UK Fax: +44 (0) 1709 720788 USA Fax: +1 865 531 0571 Email: sales@labtecta.com

Further information about the AESSEAL® LabTecta™ range is available in the standard LabTecta™ brochure. Email sales@labtecta.com to request a copy or download it from our website - www.labtecta.com

THIS DOCUMENT IS DESIGNED TO PROVIDE DIMENSIONAL INFORMATION AND AN INDICATION OF AVAILABILITY. FOR FURTHER INFORMATION AND SAFE OPERATING LIMITS CONTACT OUR TECHNICAL SPECIALISTS AT THE LOCATIONS BELOW.



USE DOUBLE MECHANICAL SEALS WITH HAZARDOUS PRODUCTS. ALWAYS TAKE SAFETY PRECAUTIONS:

- GUARD YOUR EQUIPMENT
- WEAR PROTECTIVE CLOTHING



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YOUR POINT OF CONTACT FOR SEALING APPLICATIONS!

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