



EXPERIENCE THE EXCEPTIONAL

# LabTecta<sup>®</sup> 66PB

Bearing Protector Engineered for Misalignment



- Eliminate the cause of over 50% of bearing failures
- Extended bearing and equipment life
- Better protection against bearing contamination
- Reduced lubrication requirements
- Reduced operating temperature

[www.aesseal.com](http://www.aesseal.com)

# LabTecta®66PB – 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. Competitor designs and labyrinth rings use large clearances in order to accommodate the angular misalignment but can 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. This allows you to benefit from the LabTecta®66 technology that can eliminate the cause of over 50% of bearing failures.

Major benefits are:

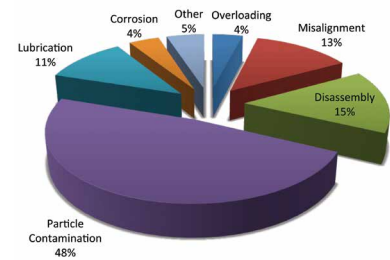
- Extended bearing and equipment life
- LabTecta®66 contamination prevention technology
- Reduced lubrication requirements
- Better lubrication retention
- Reduced operating temperature



## Eliminate the cause of over 50% of bearing failures

A major study into equipment reliability has shown **48%** of all bearing failures are due to particle contamination of the bearing oil, with an additional **4%** due to corrosion caused by water contamination.

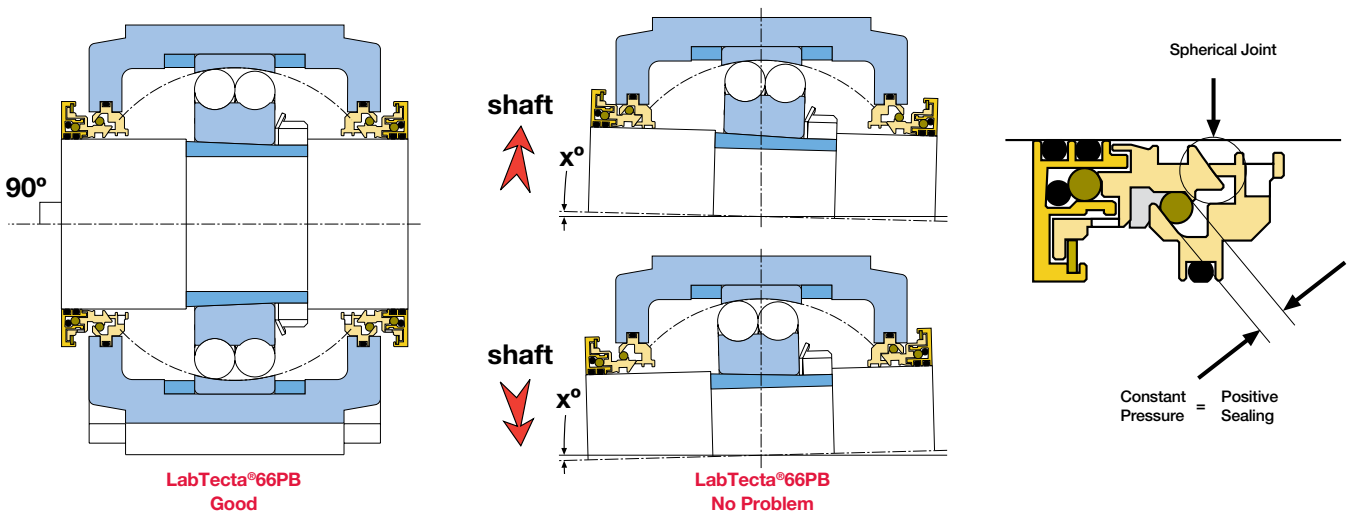
This gives a total of **52% of bearing failures** caused by contamination of the bearing oil. The LabTecta®66 product family can prevent these failures.



Causes of Bearing Failure

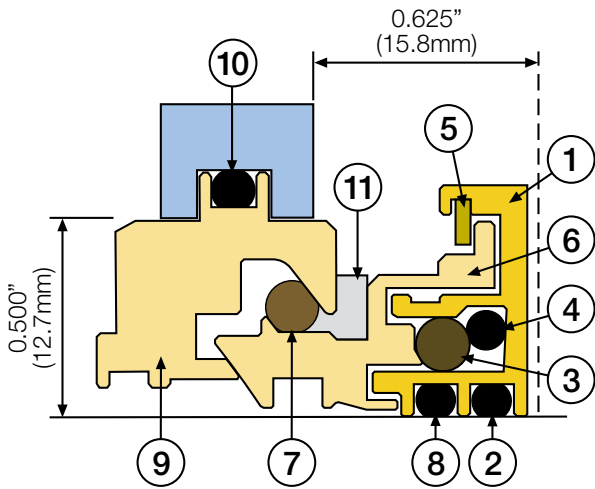
## Misalignment? – No problem

The LabTecta®66PB 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®66PB accepts the same degree of angular misalignment as any standard seal offered by the OEM.

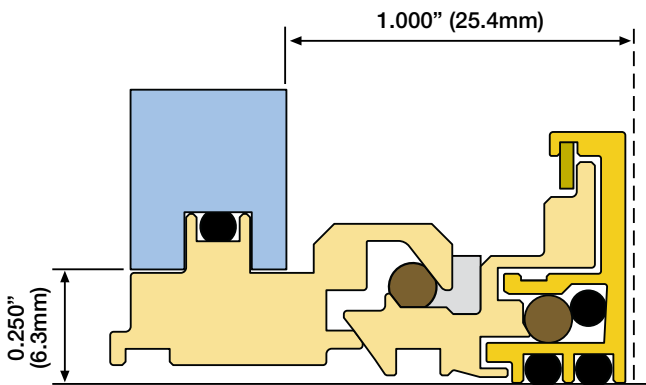
LabTecta®66PB – Designed to suit Plummer / Pillow block applications



Standard cross section

Item	Description	Material
1	LabTecta®66 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 at time of printing.



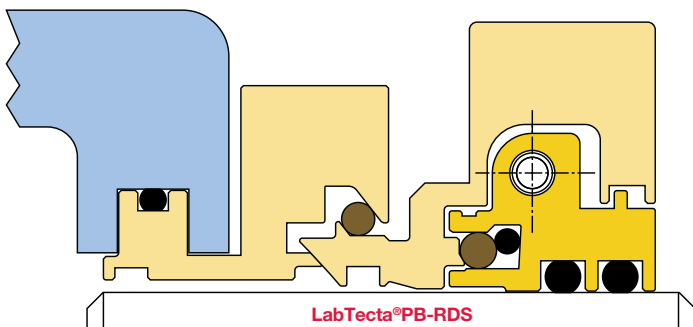
Thin cross section design variant

SKF® SNL	Most housings available – Please contact the Bearing Protection Division
SKF® SAF	507, 510, 511, 513, 515, 516, 517, 518, 520, 522, 524, 526, 528, 530, 532, 534
FAG SNV	Most housings available – Please contact the Bearing Protection Division

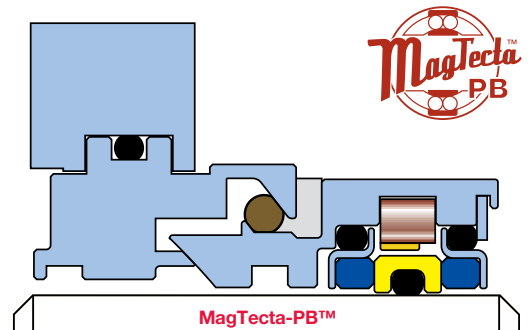
All other models will require dimensions prior to manufacture. Refer to back page for more information.

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

Alternative Designs



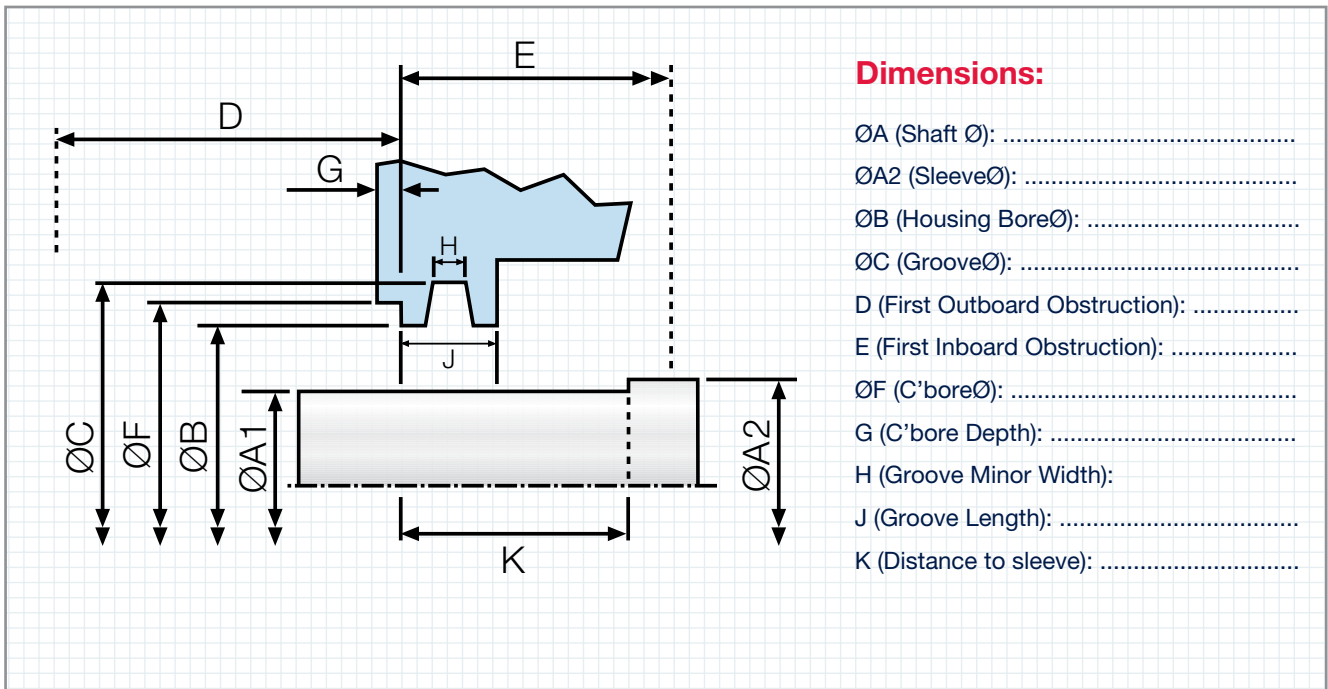
LabTecta®PB-RDS



MagTecta-PB™

# LabTecta®66PB – Additional Designs

## Sketch Housing Dimensions:



### Dimensions:

- ØA (Shaft Ø): .....
- ØA2 (SleeveØ): .....
- ØB (Housing BoreØ): .....
- ØC (GrooveØ): .....
- D (First Outboard Obstruction): .....
- E (First Inboard Obstruction): .....
- ØF (C'boreØ): .....
- G (C'bore Depth): .....
- H (Groove Minor Width): .....
- J (Groove Length): .....
- K (Distance to sleeve): .....

### 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** E-mail: **sales@labtecta.com**

Further information about the AESSEAL® LabTecta®66 range is available in the standard LabTecta®66 brochure.

E-mail: **sales@labtecta.com** to request a copy or download it from our website: **www.labtecta.com**

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

**WARNING**

#### UK Sales & Technical advice:

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#### USA Sales & Technical advice:

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