

LabTecta®66

Eliminate over 50% of bearing failures with the LabTecta®66 IP66 certified bearing protector



Improved

- Equipment life
- Process uptime
- Operational profit
- Environment

Reduced

- Bearing failures
- Maintenance cost
- Operational losses
- Clean-up costs

Improving Rotating Equipment Reliability by Preventing Bearing Failure

Bearing Protection

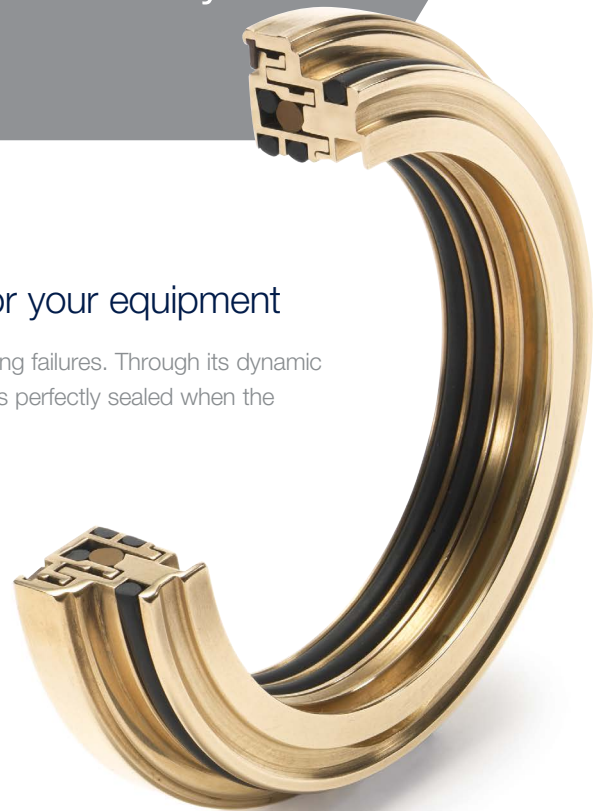
The most cost effective reliability upgrade for your equipment

The LabTecta®66 range can eliminate the cause of 52% of your bearing failures. Through its dynamic lift technology, it allows the equipment to breathe when running, but is perfectly sealed when the equipment isn't running, preventing the ingress of contaminants.

Application specific designs

LabTecta®66 can be used to upgrade applications that are used in difficult locations, or are prone to premature bearing failure.

- Steam turbines (LabTecta®66ST),
- Axial movement (LabTecta®66AX),
- Oil flooded applications (LabTecta®66FS),
- Split-seal designs for easier installation (LabTecta®66RDS),
- Pillow blocks (LabTecta®66PB),
- Top / side entry (LabTecta®66TE / SE)
- Inboard / outboard air purge for difficult environments (LabTecta®66IAP / OAP).



LabTecta®66IAP



LabTecta®66ST



LabTecta®66AX



LabTecta®66FS



LabTecta®66SE



LabTecta®66PB

“52% of Bearing failures are due to contamination of the bearing oil*”

Reducing Bearing Failure

52% of Bearing failures are due to contamination of the bearing oil*. This represents 20.8% of all rotating equipment 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 contamination of the bearing oil.

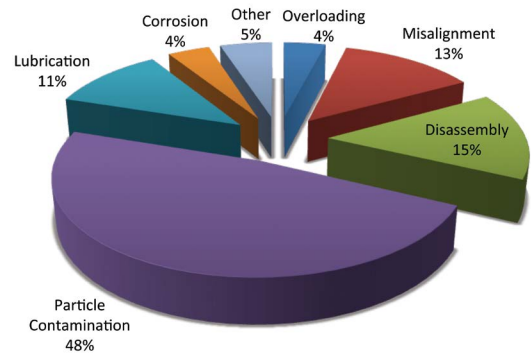
Reducing Water Contamination

Research conducted by a major academic institution has shown that water contamination as low as 0.002% (20ppm) in some oils can reduce bearing life by as much as 48%

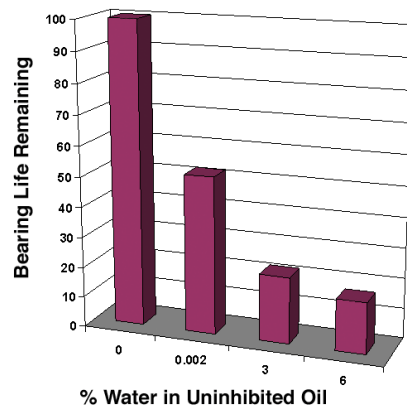
LabTecta®66 reduces bearing failure by:

- Preventing water ingress
- Preventing dust ingress
- Eliminating shaft damage due to rubbing

Causes of Bearing Failure



Water Contamination Reduces Bearing Life Significantly



* Bloch, Heinz; "Pump Users Handbook: Life Extension" 2011.

“ LabTecta®66 can reduce bearing oil contamination to as low as 0.0003% ”

The effect of water contamination





LabTecta®66 Features & Benefits

- **Zenith Barrier** - Prevents loss of oil from the bearing chamber
- **Multi tiered labyrinth** - Keeps water, dust & contaminants out, improving bearing life
- **Water Expulsion Port** - Further protects against water ingress
- **Withstands jet washing** - Meets the requirements of IP66 for applications where jet washing takes place
- **Sealed to the requirements of IP66** - Meets the requirements of IEEE std 841-2001 for electrical motors. Improves safety and reliability
- **Non wearing** - Eliminates shaft wear in operation
- **Maintenance free** - No routine maintenance required
- **ATEX Certification** - ATEX certified to directive 94/9/EC

LabTecta®66 is Sealed to IP66

Proven protection through 3rd party testing

Ingress Protection code rating

The premier third-party standard for Ingress Protection.

Protection Rating against solids

Level 6 — Defined as “No ingress of dust; complete protection against contact.”

Protection Rating against water

Level 6 — Defined as “Water projected in powerful jets (0.5” / 12.5mm nozzle) against the enclosure from all practicable angles shall have no harmful effects”. Tested with at least 26 US gallons (100 litres) per minute for at least 3 minutes, while equipment is both static & rotating.

IP 66

ATEX Certification

LabTecta®66 is available with full ATEX certification, the world's first bearing protectors to be certified to the latest harmonised standards, complying with ATEX directive 94/9/EC. **Certificate Number: Sira 13ATEX6360U**



The Problem with Lip-Seals – What is the True Cost?

Extensive testing shows conclusively that lip-seals cannot effectively protect your bearing oil. Recognized problems with lip-seals include:

- Have a short effective lifespan
- Ineffectiveness at keeping contamination from bearing housings
- Serious wear of shafts, causing extensive equipment damage and added cost
- The loss of lubrication, leading to catastrophic bearing and equipment failure

For these reasons API 610 11th edition, section 6.10.2.6 states “Lip-type seals shall not be used”

Comparison of Lip-Seal versus LabTecta®66

Requirement	Lip Seal	LabTecta®66
Ability to keep oil in bearing	No lasting ability	Yes
Protection against water ingress	No lasting protection	IP66
Protection against ingress of particles	No lasting protection	IP66
Shaft wear	Significant	None

Non Contacting. No Wear. No Loss of Protection

Seal Type	New	100 hours Use	1000 hours Use	1 Year Use
Lip Seal	Effective Sealing	Deterioration of Lip Seal	Visible Shaft Wear*	Significant loss of protection
Bearing Isolator	Effective Sealing	No Change	No Change	No Change

*After a little over a 100 hours shaft wear can be perceived



Lip-seals wear grooves in shafts

Dynamic Lift O-ring:

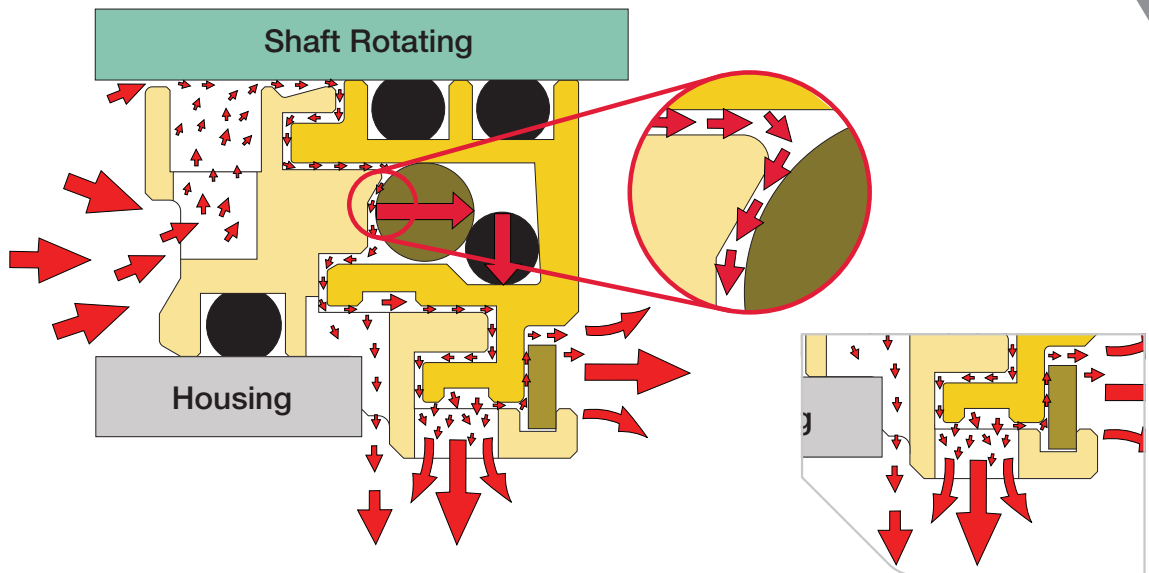
LabTecta®66 uses dynamic lift technology to prevent premature bearing failure.

As the equipment rotates, centrifugal force causes a temporary micro gap to be created, (allowing the expansion of the oil / air mixture in the bearing housing).

When equipment stops, the centrifugal force ceases and the micro-gap is closed. This stops atmosphere from being sucked back into the bearing-housing, preventing moisture laden air from coming in.

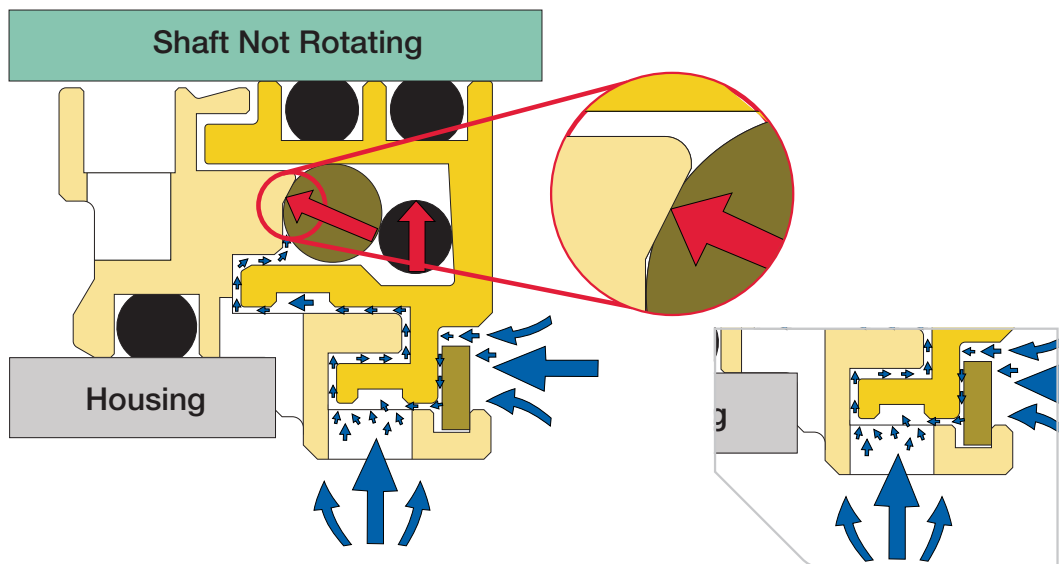
Essential Micro-Gap When Rotating

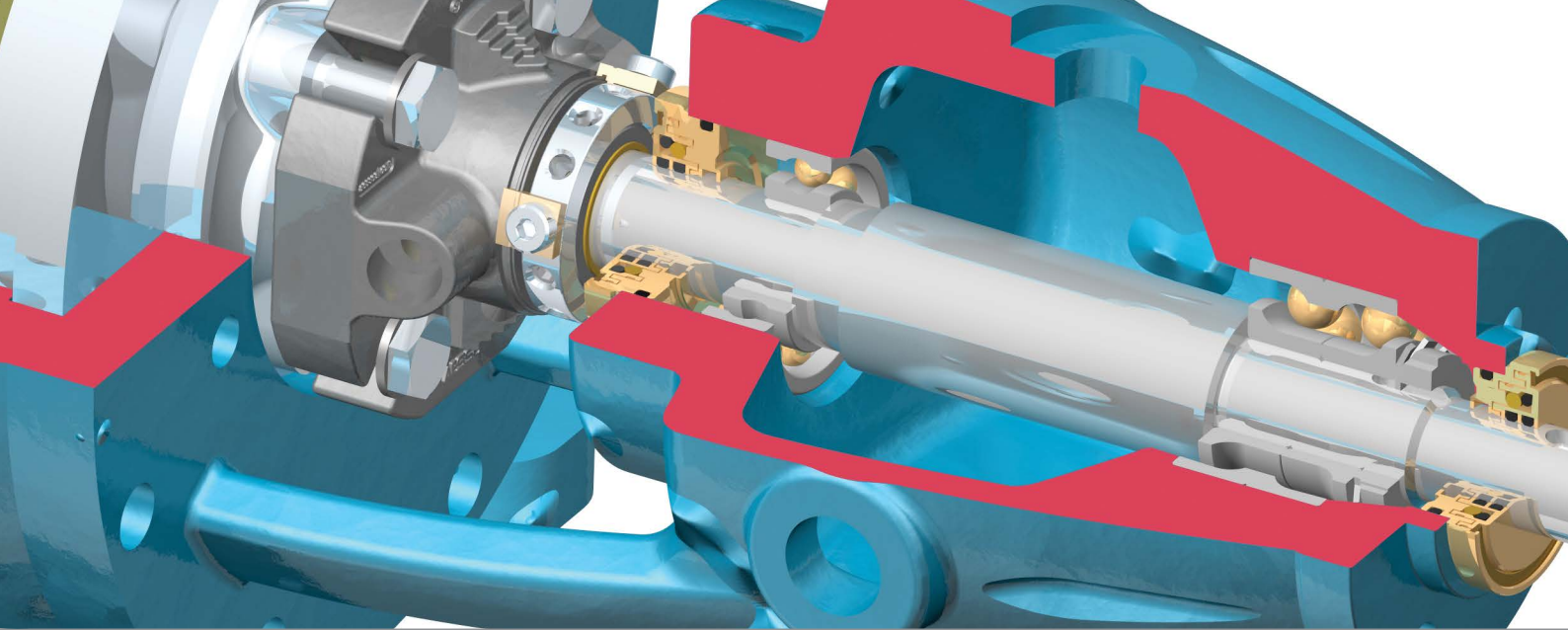
During equipment rotation a micro-gap is created, allowing equipment to breathe.



Effective Vapour-Seal When Not Rotating

Once equipment stops the micro-gap closes, forming a perfect seal. Atmosphere and water vapour are prevented from entering the bearing chamber.



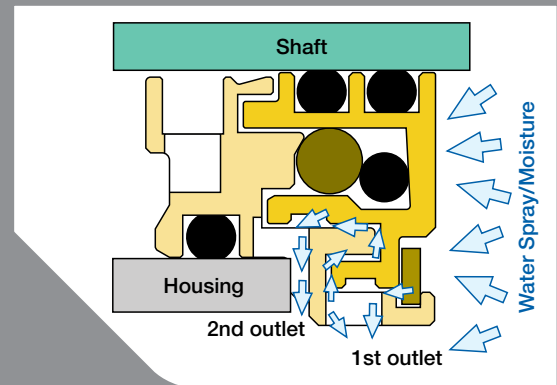


Design Features

Multi Tiered Labyrinth

Designed to keep Contaminants Out

The labyrinth design of the LabTecta®66 features a multi tiered expulsion system, stopping any water that has passed the micro labyrinth from entering further into the bearing protector.



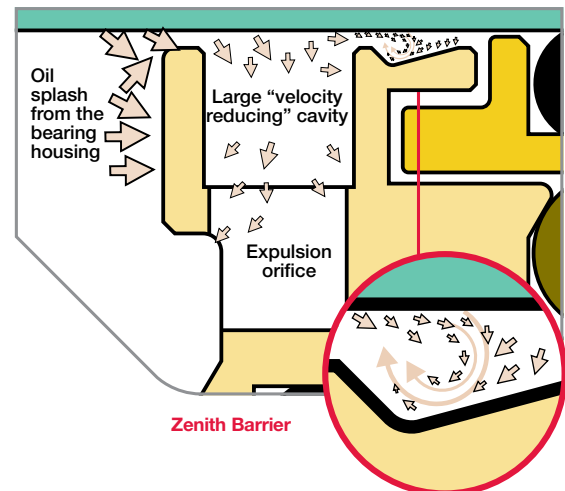
Contaminants are expelled in one of the two expulsion spaces

Zenith Barrier

Designed to keep Oil In

Most of the oil splash from the bearing housing is expelled back through the velocity-reducing stator cavity and expulsion orifice.

Any oil that remains is subjected to centrifugal forces from the rotating shaft. Combined with the profile of the stator and the close proximity to the shaft, this creates a standing vortex, acting as a secondary physical barrier to further oil egress.



Atex Certified

Complying with ATEX directive 94/9/EC, LabTecta®66 is the first range of bearing protection products to be certified to the latest harmonised EN Standards.



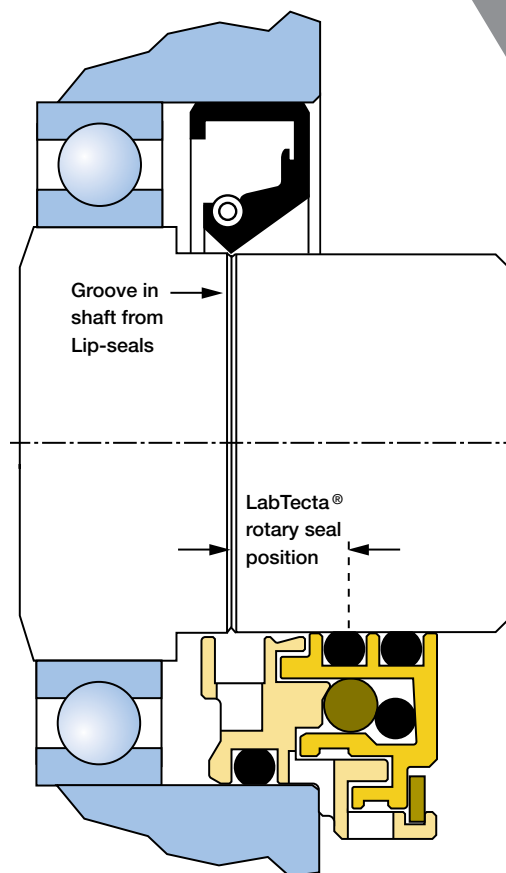
“ Our purpose is to give our customers such exceptional service that they need never consider alternative sources of supply. ”

No Need to Refurbish a Lip-Seal Damaged Shaft

Never refurbish or replace a lip-seal worn shaft: the permanent upgrade could be cheaper.

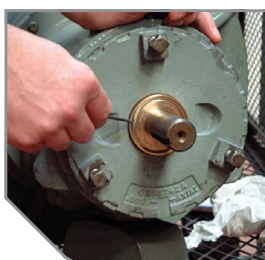
Lip-seals wear shafts, causing expensive damage. LabTecta®66 can permanently eliminate this expense. Additionally, you can often upgrade to a LabTecta®66 without replacing or refurbishing the shaft damaged by the old lip-seal.

Why pay for a replacement shaft when upgrading to LabTecta®66 costs less?



Eliminate Shaft Refurbishment Costs
Because LabTecta®66 is positioned differently on the shaft there is no need to refurbish before you upgrade

Field Repairable in Just Three Minutes for Minimal Cost



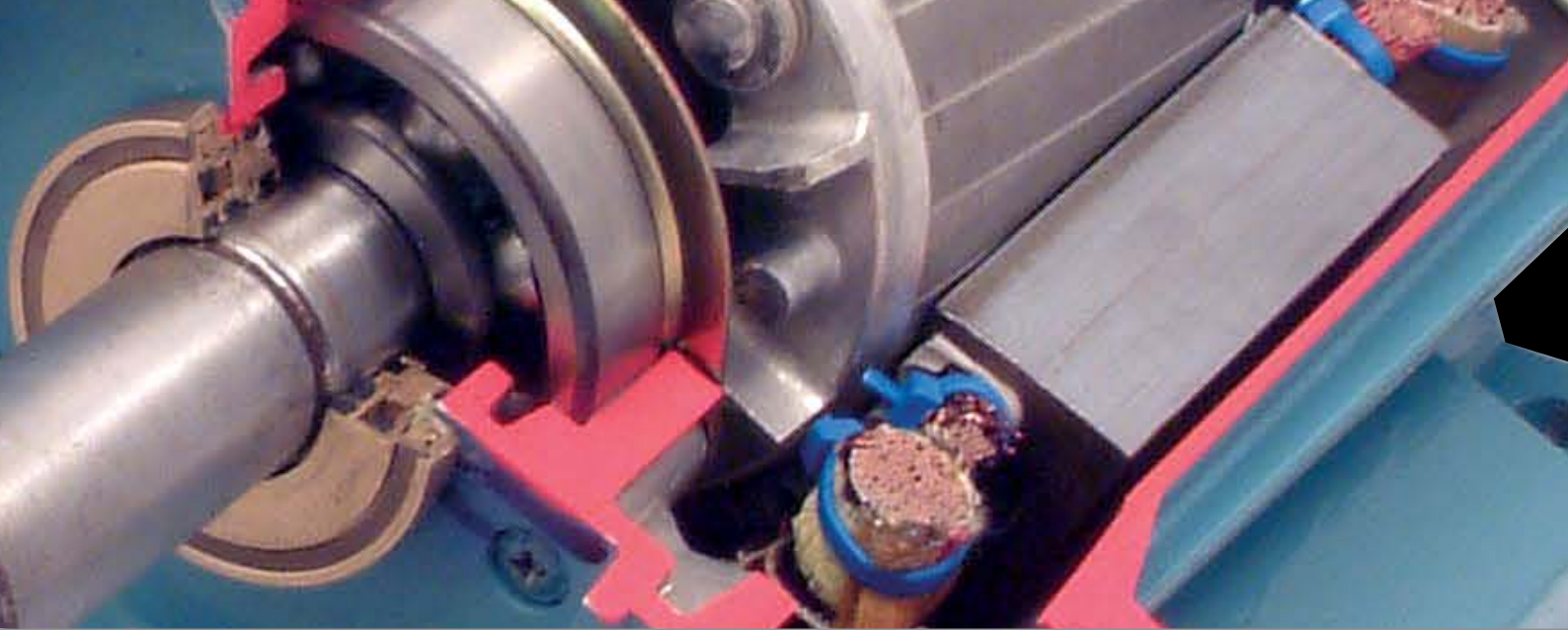
The LabTecta®66 is field repairable in three minutes for the cost of an inexpensive spares kit. No special disassembly tools are required, just one small conventional screwdriver and/or an 'O' Ring extraction tool.



No press / special tools needed for repair



No torches / heat needed for repair

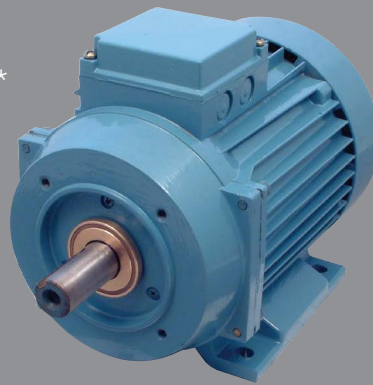


Protecting Electrical Motors

Approximately 51% of motor failures** are caused by bearing failure.

LabTecta®66 products;

- Protect against the major cause of bearing failure
- Meet the requirements of IEEE standard 841-2001
- Improve electrical safety by preventing water ingress
- Eliminate motor shaft damage due to rubbing
- Are maintenance free



IEEE 841-2001 (the premier standard for electrical motors) requires an ingress protection rating of IP66 and the use of a non-contacting rotating device to seal contaminants from the bearing chamber.

** IEEE Petrochem Paper PCIC-94-01

Technical Data

Standard Sizes:

16mm - 145mm (0.750" – 5.875")

Typical incremental Size:

1mm & 0.062"

Materials:

Stator Housing Phosphor Bronze

Rotary Phosphor Bronze

Elastomer Options: Viton (standard), others available on request.

Maximum Shaft Peripheral Speed:

Dry running 20 m/s (3940 ft/min)

Oil Splash Lubrication 20 m/s (3940 ft/min)

Grease 20 m/s (3940 ft/min)

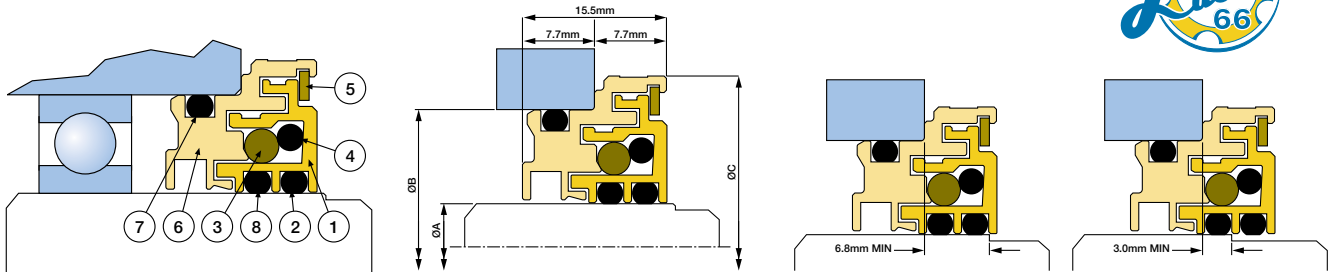
(API 7th Edition and earlier/Flow through oil mist systems only) (For faster shaft speed applications, contact Bearing Protection division)

Operating Process Temperature range: -20°C to 180°C (-4°F to 356°F)

Dependent upon: Bearing Isolator material of construction, particularly elastomers – consult AESSEAL® Bearing Protection Division if in doubt.



LabTecta®66 Dimensions – 16.0mm - 145.0mm

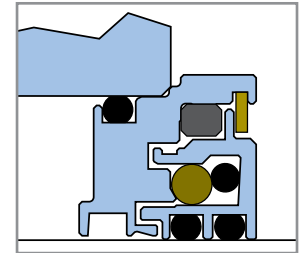


Twice the chance of fitting onto an unmarked shaft surface

DIM A	DIM B	DIM C	STOCK CODE
16.0	36.0	43.4	L1M016PP-001-M036
41.0	44.9	L1M016PP-001-M041	
34.0	43.4	L1M016PP-001-M034	
38.0	43.4	L1M016PP-001-M038	
18.0	38.0	45.4	L1M018PP-001-M038
43.0	46.9	L1M018PP-001-M043	
36.0	45.4	L1M018PP-001-M036	
40.0	45.4	L1M018PP-001-M040	
20.0	40.0	47.4	L1M020PP-001-M040
45.0	48.9	L1M020PP-001-M045	
38.0	47.4	L1M020PP-001-M038	
42.0	47.4	L1M020PP-001-M042	
22.0	42.0	49.4	L1M022PP-001-M042
47.0	50.9	L1M022PP-001-M047	
40.0	49.4	L1M022PP-001-M040	
44.0	49.4	L1M022PP-001-M044	
24.0	44.0	51.4	L1M024PP-001-M044
49.0	52.9	L1M024PP-001-M049	
42.0	51.4	L1M024PP-001-M042	
46.0	51.4	L1M024PP-001-M046	
25.0	45.0	52.4	L1M025PP-001-M045
50.0	53.9	L1M025PP-001-M050	
43.0	52.4	L1M025PP-001-M043	
47.0	52.4	L1M025PP-001-M047	
28.0	48.0	55.4	L1M028PP-001-M048
53.0	56.9	L1M028PP-001-M053	
46.0	55.4	L1M028PP-001-M046	
50.0	55.4	L1M028PP-001-M050	
30.0	50.0	57.4	L1M030PP-001-M050
55.0	58.9	L1M030PP-001-M055	
48.0	57.4	L1M030PP-001-M048	
52.0	57.4	L1M030PP-001-M052	
32.0	52.0	59.4	L1M032PP-001-M052
57.0	60.9	L1M032PP-001-M057	
50.0	59.4	L1M032PP-001-M050	
54.0	59.4	L1M032PP-001-M054	
33.0	53.0	60.4	L1M033PP-001-M053
58.0	61.9	L1M033PP-001-M058	
51.0	60.4	L1M033PP-001-M051	
55.0	60.4	L1M033PP-001-M055	
35.0	55.0	62.4	L1M035PP-001-M055
60.0	63.9	L1M035PP-001-M060	
53.0	62.4	L1M035PP-001-M053	
57.0	62.4	L1M035PP-001-M057	
38.0	58.0	65.4	L1M038PP-001-M058
63.0	66.9	L1M038PP-001-M063	
56.0	65.4	L1M038PP-001-M056	
60.0	65.4	L1M038PP-001-M060	
40.0	60.0	67.4	L1M040PP-001-M060
65.0	68.9	L1M040PP-001-M065	
58.0	67.4	L1M040PP-001-M058	
62.0	67.4	L1M040PP-001-M062	
43.0	63.0	70.4	L1M043PP-001-M063
68.0	71.9	L1M043PP-001-M068	
61.0	70.4	L1M043PP-001-M061	
65.0	70.4	L1M043PP-001-M065	

DIM A	DIM B	DIM C	STOCK CODE
45.0	65.0	72.4	L1M045PP-001-M065
70.0	73.9	L1M045PP-001-M070	
71.0	74.9	L1M045PP-001-M071	
75.0	78.9	L1M045PP-001-M075	
48.0	68.0	75.4	L1M048PP-001-M068
73.0	76.9	L1M048PP-001-M073	
74.0	77.9	L1M048PP-001-M074	
78.0	81.9	L1M048PP-001-M078	
50.0	70.0	77.4	L1M050PP-001-M070
75.0	78.9	L1M050PP-001-M075	
76.0	79.9	L1M050PP-001-M076	
80.0	83.9	L1M050PP-001-M080	
52.0	72.0	79.4	L1M052PP-001-M072
77.0	80.9	L1M052PP-001-M077	
78.0	81.9	L1M052PP-001-M078	
82.0	85.9	L1M052PP-001-M082	
53.0	73.0	80.4	L1M053PP-001-M073
78.0	81.9	L1M053PP-001-M078	
79.0	82.9	L1M053PP-001-M079	
83.0	86.9	L1M053PP-001-M083	
55.0	75.0	82.4	L1M055PP-001-M075
80.0	83.9	L1M055PP-001-M080	
81.0	84.9	L1M055PP-001-M081	
85.0	88.9	L1M055PP-001-M085	
58.0	78.0	85.4	L1M058PP-001-M078
83.0	86.9	L1M058PP-001-M083	
84.0	87.9	L1M058PP-001-M084	
88.0	91.9	L1M058PP-001-M088	
60.0	80.0	87.4	L1M060PP-001-M080
85.0	88.9	L1M060PP-001-M085	
86.0	89.9	L1M060PP-001-M086	
90.0	93.9	L1M060PP-001-M090	
63.0	83.0	90.4	L1M063PP-001-M083
88.0	91.9	L1M063PP-001-M088	
89.0	92.9	L1M063PP-001-M089	
93.0	96.9	L1M063PP-001-M093	
65.0	85.0	92.4	L1M065PP-001-M085
90.0	93.9	L1M065PP-001-M090	
91.0	94.9	L1M065PP-001-M091	
95.0	98.9	L1M065PP-001-M095	
68.0	88.0	95.4	L1M068PP-001-M088
93.0	96.9	L1M068PP-001-M093	
94.0	97.9	L1M068PP-001-M094	
98.0	101.9	L1M068PP-001-M098	
70.0	90.0	97.4	L1M070PP-001-M090
95.0	98.9	L1M070PP-001-M095	
96.0	99.9	L1M070PP-001-M096	
100.0	103.9	L1M070PP-001-M100	
75.0	95.0	102.4	L1M075PP-001-M095
100.0	103.9	L1M075PP-001-M100	
101.0	104.9	L1M075PP-001-M101	
105.0	108.9	L1M075PP-001-M105	
80.0	100.0	107.4	L1M080PP-001-M100
105.0	108.9	L1M080PP-001-M105	
106.0	109.9	L1M080PP-001-M106	
110.0	113.9	L1M080PP-001-M110	

DIM A	DIM B	DIM C	STOCK CODE
85.0	105.0	112.4	L1M085PP-001-M105
110.0	113.9	L1M085PP-001-M110	
111.0	114.9	L1M085PP-001-M111	
115.0	118.9	L1M085PP-001-M115	
90.0	110.0	117.4	L1M090PP-001-M110
115.0	118.9	L1M090PP-001-M115	
116.0	119.9	L1M090PP-001-M116	
120.0	123.9	L1M090PP-001-M120	
95.0	115.0	122.4	L1M095PP-001-M115
120.0	123.9	L1M095PP-001-M120	
121.0	124.9	L1M095PP-001-M121	
125.0	128.9	L1M095PP-001-M125	
100.0	120.0	127.4	L1M100PP-001-M120
125.0	128.9	L1M100PP-001-M125	
126.0	129.9	L1M100PP-001-M126	
130.0	133.9	L1M100PP-001-M130	
105.0	125.0	132.4	L1M105PP-001-M125
130.0	133.9	L1M105PP-001-M130	
131.0	134.9	L1M105PP-001-M131	
135.0	138.9	L1M105PP-001-M135	
110.0	130.0	137.4	L1M110PP-001-M130
135.0	138.9	L1M110PP-001-M135	
136.0	139.9	L1M110PP-001-M136	
140.0	143.9	L1M110PP-001-M140	
115.0	135.0	142.4	L1M115PP-001-M135
140.0	143.9	L1M115PP-001-M140	
141.0	144.9	L1M115PP-001-M141	
145.0	148.9	L1M115PP-001-M145	
120.0	140.0	147.4	L1M120PP-001-M140
145.0	148.9	L1M120PP-001-M145	
146.0	149.9	L1M120PP-001-M146	
150.0	153.9	L1M120PP-001-M150	
125.0	145.0	152.4	L1M125PP-001-M145
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151.0	154.9	L1M125PP-001-M151	
155.0	158.9	L1M125PP-001-M155	
130.0	150.0	157.4	L1M130PP-001-M150
155.0	158.9	L1M130PP-001-M155	
156.0	159.9	L1M130PP-001-M156	
160.0	163.9	L1M130PP-001-M160	
135.0	155.0	162.4	L1M135PP-001-M155
160.0	163.9	L1M135PP-001-M160	
161.0	164.9	L1M135PP-001-M161	
165.0	168.9	L1M135PP-001-M165	
140.0	160.0	167.4	L1M140PP-001-M160
165.0	168.9	L1M140PP-001-M165	
166.0	169.9	L1M140PP-001-M166	
170.0	173.9	L1M140PP-001-M170	
145.0	165.0	172.4	L1M145PP-001-M165
170.0	173.9	L1M145PP-001-M170	
171.0	174.9	L1M145PP-001-M171	
175.0	178.9	L1M145PP-001-M175	



LabTecta®66SS

The LabTecta®66SS is available in full stainless steel construction giving even greater flexibility in more chemically demanding environments. This unique design incorporates all the benefits of the standard LabTecta®66. With the addition of a bumper / spacer to prevent incidental metal to metal contact in misaligned equipment.



The use of stainless steel bearing isolators in misaligned equipment will lead to equipment seizure and sparking. 

USE WITH CAUTION!

Dimensional Information (mm) larger sizes available upon request

I firmly conclude this ingenious field-repairable isolator will prove highly cost effective and lead to demonstrable equipment failure reductions.

Heinz P. Bloch P.E.
Independent Professional Engineer

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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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