

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)
- Inboard / outboard air purge for difficult environments (LabTecta®66IAP / LabTecta®66OAP).



LabTecta®66ST



LabTecta®66FS



LabTecta®66PB



LabTecta®66AX



LabTecta®66RDS



LabTecta®66IAP

“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.

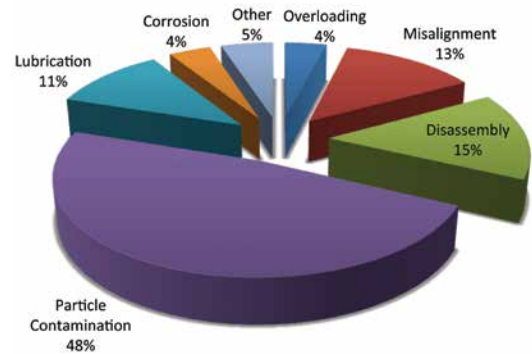
Reducing Water Contamination

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%

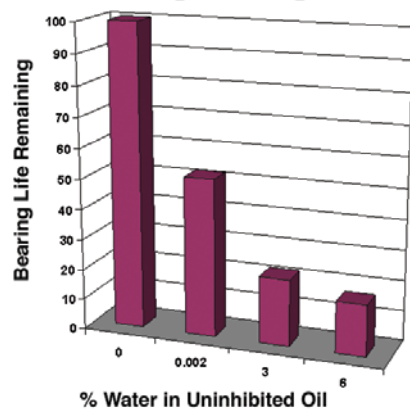
LabTecta®66 reduces bearing failure by:

- 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 841-2009 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 2014/34/EU

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 2014/34/EU. **Certificate Number: CML 18ATEX6110X**



* ATEX certification available upon request at point of order

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:

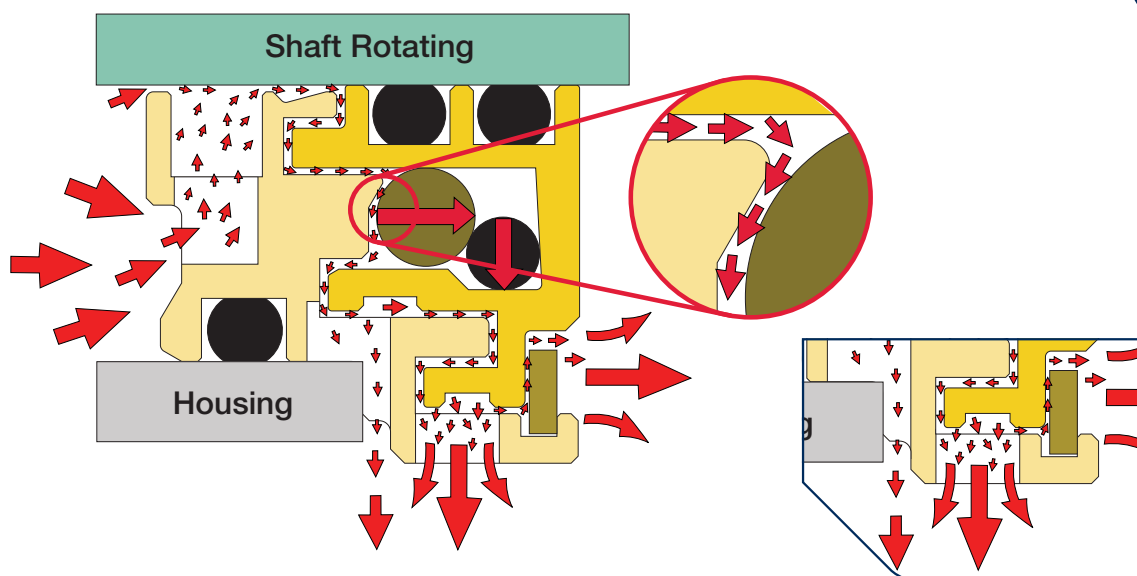
LabTecta®66 uses dynamic lift technology to prevent premature bearing failure.

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.

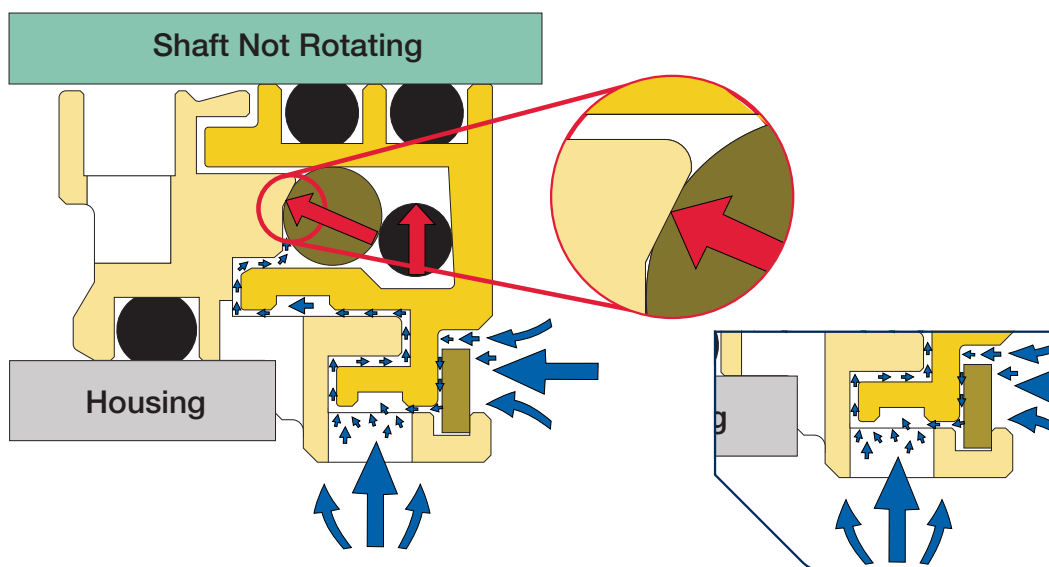
Essential Micro-Gap When Rotating

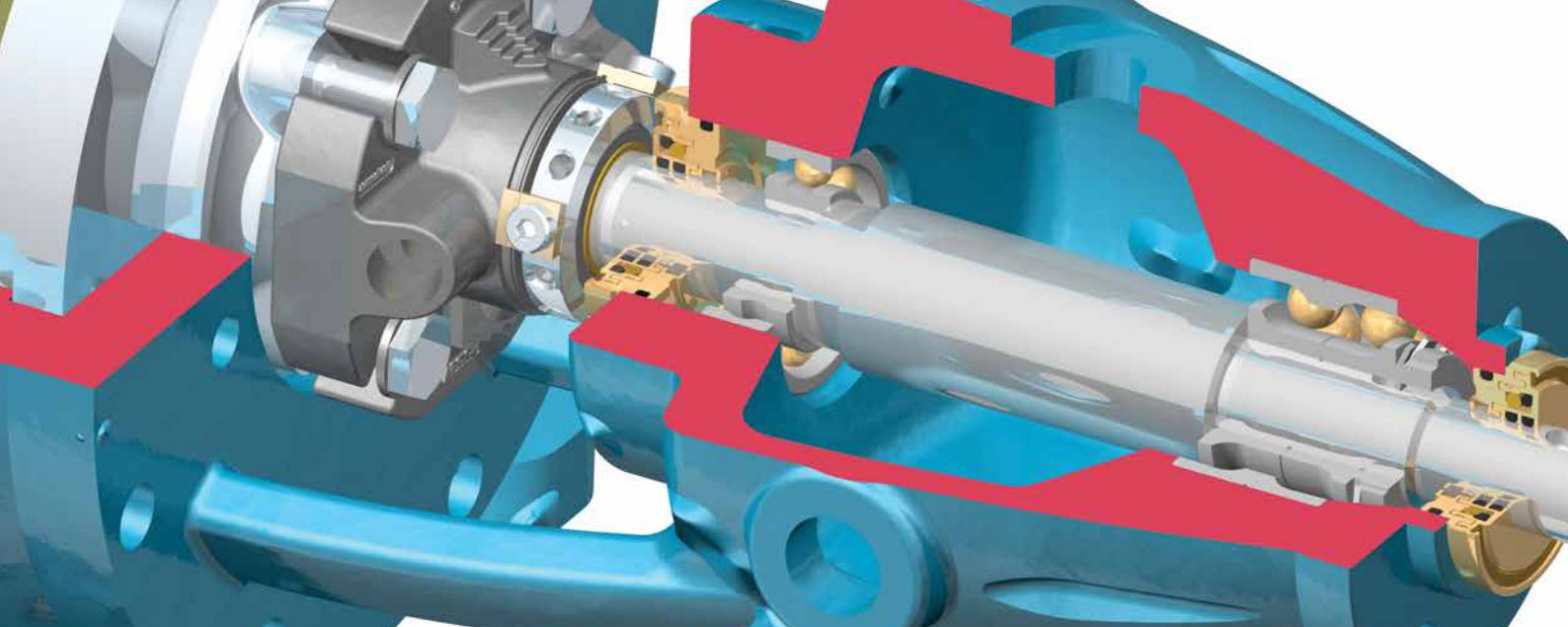
During equipment rotation a micro-gap is created, allowing equipment to breathe.



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.



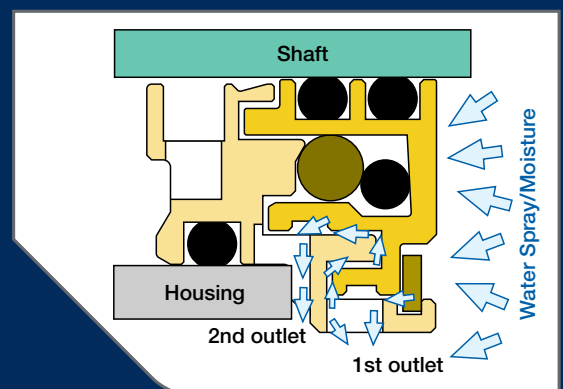


Design Features

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.



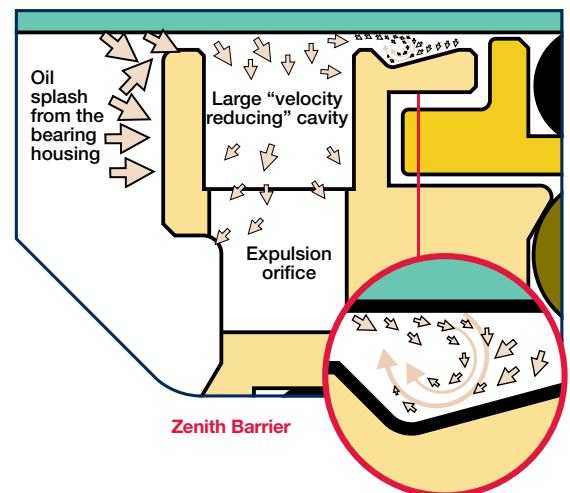
Contaminants are expelled in one of the two expulsion spaces

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 2014/34/EU, LabTecta®66 is the first range of bearing protection products to be certified to the latest harmonised EN Standards.



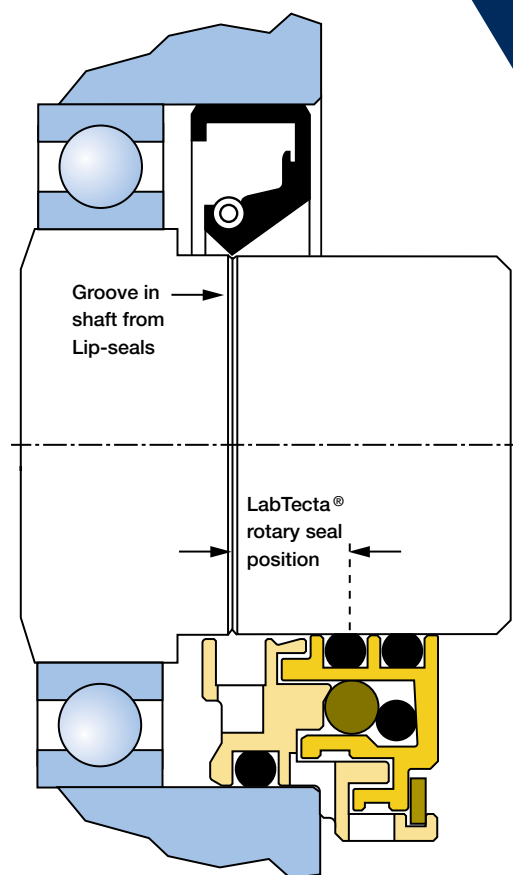
“Our purpose is to give our customers such exceptional service that they need never consider alternative sources of supply.”

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 841-2009
- Improve electrical safety by preventing water ingress
- Eliminate motor shaft damage due to rubbing
- Are maintenance free



IEEE 841-2009 (the premier standard for electrical motors) requires an ingress protection rating of IP55 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: FKM (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)

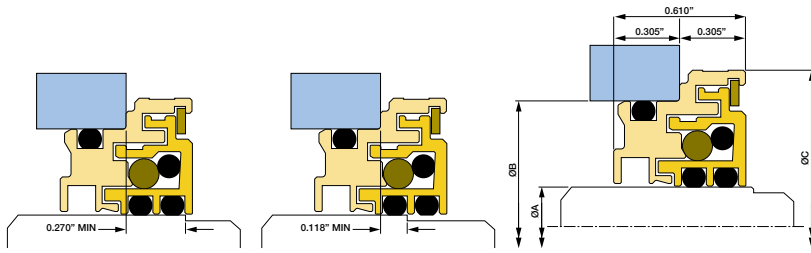
(API 7th Edition and earlier/Flow through oil mist systems only) (For faster shaft speed applications, contact Bearing Protection division)

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 – 0.750" - 5.875"



Twice the chance of fitting onto an unmarked shaft surface

Item	Description	Material
1	LabTecta®66 Rotary	Phosphor Bronze
2	Outboard Rotor O-Ring	FKM
3	Arknian™ Shut Off Device	Compound Elastomer
4	Arknian™ Energizer	FKM
5	Face Shield	Composite Material
6	Stator Housing	Phosphor Bronze
7	Stator Housing O-Ring	FKM
8	Inboard Rotor O-Ring	FKM

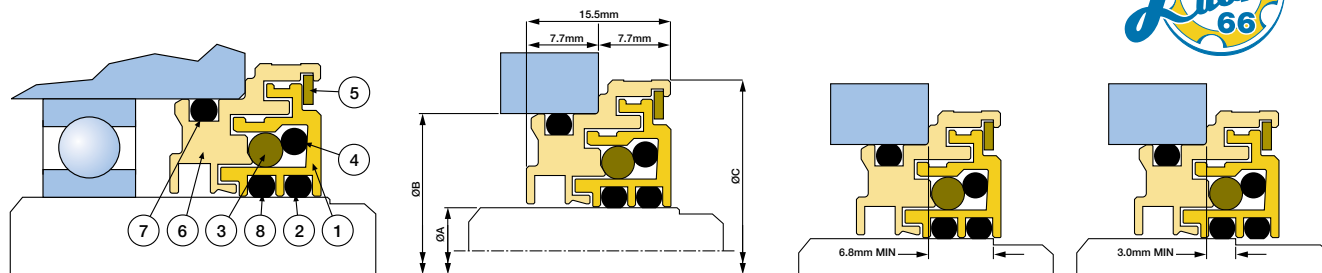
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	1.625	1.829	L1106-PP-001-I13-
	1.750	1.889	L1106-PP-001-I14-
	1.875	2.014	L1106-PP-001-I15-
0.875	1.625	1.954	L1107-PP-001-I13-
	1.750	1.954	L1107-PP-001-I14-
	1.875	2.014	L1107-PP-001-I15-
	2.000	2.139	L1107-PP-001-I16-
0.937	1.687	2.016	L1108-PP-001-I141
	1.812	2.016	L1108-PP-001-I151
	1.937	2.076	L1108-PP-001-I161
	2.062	2.201	L1108-PP-001-I171
1.000	1.750	2.079	L1108-PP-001-I14-
	1.875	2.079	L1108-PP-001-I15-
	2.000	2.139	L1108-PP-001-I16-
	2.125	2.264	L1108-PP-001-I17-
1.062	1.812	2.141	L1109-PP-001-I151
	1.937	2.141	L1109-PP-001-I161
	2.062	2.201	L1109-PP-001-I171
	2.187	2.326	L1109-PP-001-I181
1.125	1.875	2.204	L1109-PP-001-I15-
	2.000	2.204	L1109-PP-001-I16-
	2.125	2.264	L1109-PP-001-I17-
	2.250	2.389	L1109-PP-001-I18-
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	2.062	2.266	L1110-PP-001-I171
	2.187	2.326	L1110-PP-001-I181
	2.312	2.451	L1110-PP-001-I191
1.250	2.000	2.329	L1110-PP-001-I16-
	2.125	2.329	L1110-PP-001-I17-
	2.250	2.389	L1110-PP-001-I18-
	2.375	2.514	L1110-PP-001-I19-
1.312	2.062	2.391	L1111-PP-001-I171
	2.187	2.391	L1111-PP-001-I181
	2.312	2.451	L1111-PP-001-I191
	2.437	2.576	L1111-PP-001-I201
1.375	2.125	2.454	L1111-PP-001-I17-
	2.250	2.454	L1111-PP-001-I18-
	2.375	2.514	L1111-PP-001-I19-
	2.500	2.639	L1111-PP-001-I20-
1.437	2.187	2.516	L1112-PP-001-I181
	2.312	2.516	L1112-PP-001-I191
	2.437	2.576	L1112-PP-001-I201
	2.562	2.701	L1112-PP-001-I211
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	2.375	2.579	L1112-PP-001-I19-
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	2.625	2.764	L1112-PP-001-I21-
1.562	2.312	2.641	L1113-PP-001-I191
	2.437	2.641	L1113-PP-001-I201
	2.562	2.701	L1113-PP-001-I211
	2.687	2.826	L1113-PP-001-I221
1.625	2.375	2.704	L1113-PP-001-I19-
	2.500	2.704	L1113-PP-001-I20-
	2.625	2.764	L1113-PP-001-I21-
	2.750	2.889	L1113-PP-001-I22-
1.687	2.437	2.766	L1114-PP-001-I201
	2.562	2.766	L1114-PP-001-I211
	2.687	2.826	L1114-PP-001-I221
	2.812	2.951	L1114-PP-001-I231
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	2.625	2.829	L1114-PP-001-I21-
	2.750	2.889	L1114-PP-001-I22-
	2.875	3.014	L1114-PP-001-I23-
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	2.812	2.937	L1115-PP-001-I231
	2.937	3.076	L1115-PP-001-I241
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	2.750	2.954	L1115-PP-001-I22-
	2.875	3.014	L1115-PP-001-I23-
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	2.812	3.016	L1116-PP-001-I231
	2.937	3.076	L1116-PP-001-I241
	3.062	3.201	L1116-PP-001-I251

DIM A	DIM B	DIM C	STOCK CODE
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	2.937	3.141	L1117-PP-001-I241
	3.062	3.201	L1117-PP-001-I251
	3.187	3.326	L1117-PP-001-I261
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	3.000	3.204	L1117-PP-001-I24-
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	3.250	3.389	L1117-PP-001-I26-
2.187	2.937	3.266	L1118-PP-001-I241
	3.062	3.266	L1118-PP-001-I251
	3.187	3.326	L1118-PP-001-I261
	3.312	3.451	L1118-PP-001-I271
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	3.375	3.514	L1118-PP-001-I27-
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	3.437	3.576	L1119-PP-001-I281
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DIM A	DIM B	DIM C	STOCK CODE
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	4.687	4.826	L11291-PP-001-I381
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	4.625	4.764	L1129-PP-001-I37-
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	4.562	4.766	L11301-PP-001-I371
	4.687	4.826	L11301-PP-001-I381
	4.812	4.951	L11301-PP-001-I391
3.750	4.500	4.829	L1130-PP-001-I36-
	4.625	4.829	L1130-PP-001-I37-
	4.750	4.889	L1130-PP-001-I38-
	4.875	5.014	L1130-PP-001-I39-
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	4.687	4.891	L11311-PP-001-I381
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	4.937	5.076	L11311-PP-001-I401
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	4.812	5.016	L11321-PP-001-I391
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	5.062	5.201	L11331-PP-001-I411
	5.187	5.326	L11331-PP-001-I421
4.125	4.875	5.204	L1133-PP-001-I39-
	5.000	5.204	L1133-PP-001-I40-
	5.125	5.264	L1133-PP-001-I41-
	5.250	5.389	L1133-PP-001-I42-
4.187	4.937	5.266	L11341-PP-001-I401
	5.062	5.266	L11341-PP-001-I411
	5.187	5.326	L11341-PP-001-I421
	5.312	5.451	L11341-PP-001-I431
4.250	5.000	5.329	L1134-PP-001-I40-
	5.125	5.329	L1134-PP-001-I41-
	5.250	5.389	L1134-PP-001-I42-
	5.375	5.514	L1134-PP-001-I43-
4.312	5.062	5.391	L11351-PP-001-I411
	5.187	5.391	L11351-PP-001-I421
	5.312	5.451	L11351-PP-001-I431
	5.437	5.576	L11351-PP-001-I441

DIM A	DIM B	DIM C	STOCK CODE
4.375	5.125	5.454	L1135-PP-001-I41-
	5.250	5.454	L1135-PP-001-I42-
	5.375	5.514	L1135-PP-001-I43-
	5.500	5.639	L1135-PP-001-I44-
4.437	5.187	5.516	L11361-PP-001-I421
	5.312	5.516	L11361-PP-001-I431
	5.437	5.576	L11361-PP-001-I441
	5.562	5.701	L11361-PP-0

LabTecta®66 Dimensions — 16.0mm - 145.0mm

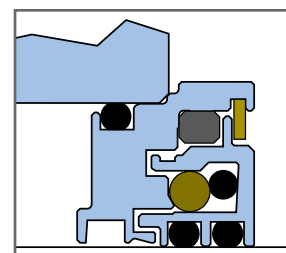


Twice the chance of fitting onto an unmarked shaft surface

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
150.0	153.9		L1M125PP-001-M150
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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