AESSEAL®
ENVIRONMENTAL TECHNOLOGY

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

www.aesseal.com

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

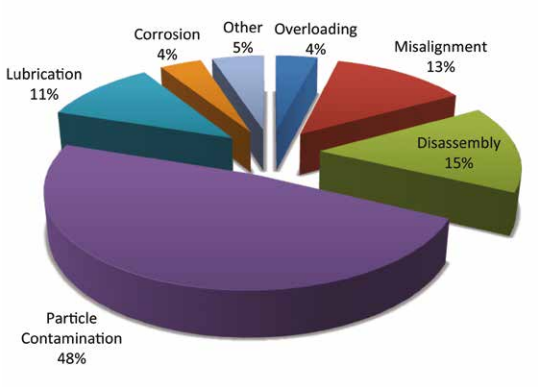
"52% of Bearing failures are due to contamination of the bearing oil*"

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.

Causes of Bearing Failure

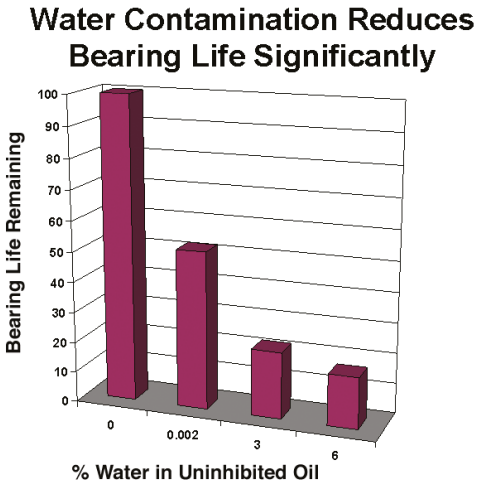


Reducing Water Contamination

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



* 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.

IP66

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:

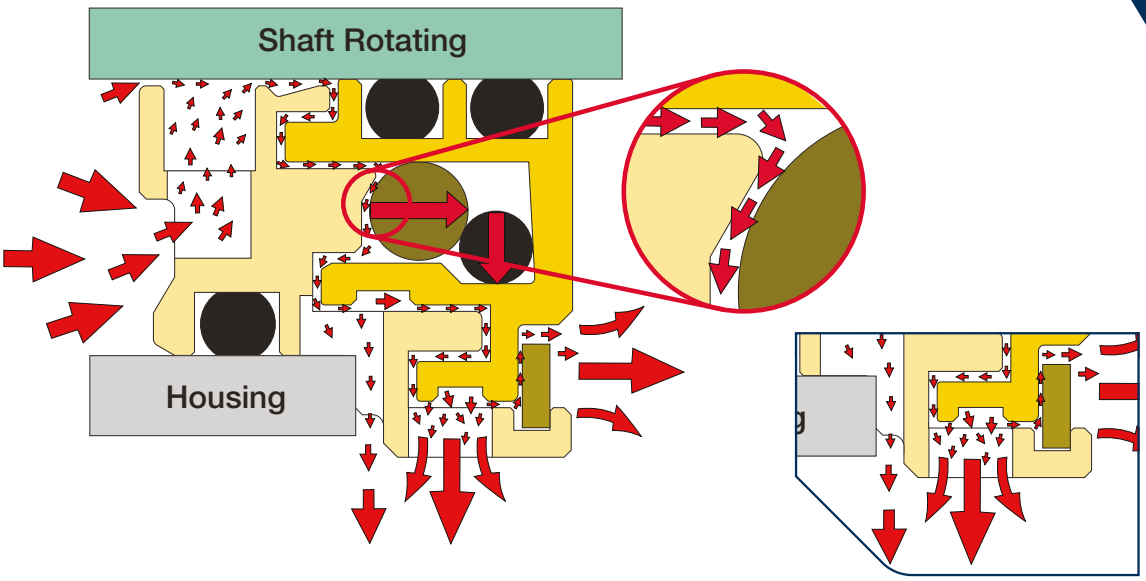
LabTecta®66 uses dynamic lift technology to prevent premature bearing failure.

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.

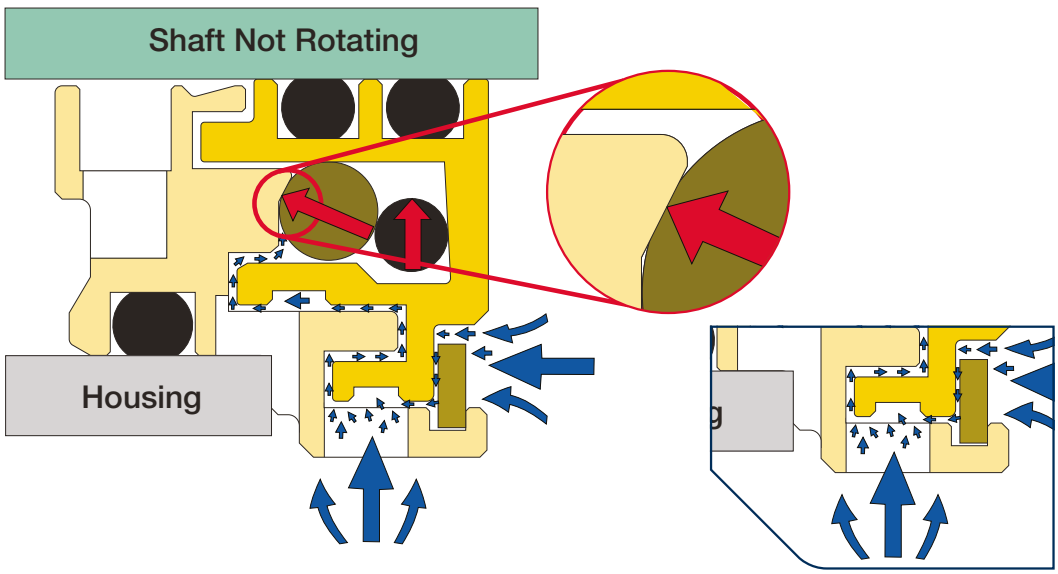
Essential Micro-Gap When Rotating

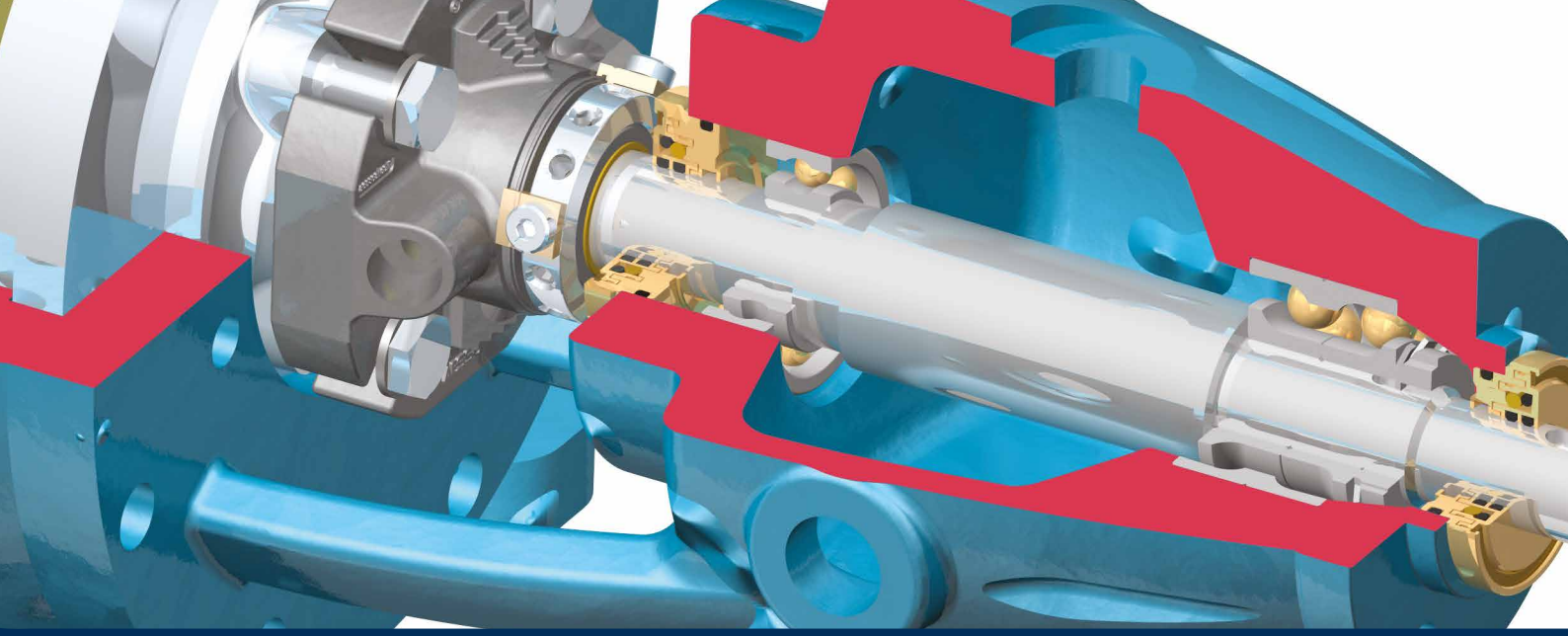
During equipment rotation a micro-gap is created, allowing equipment to breathe.



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.



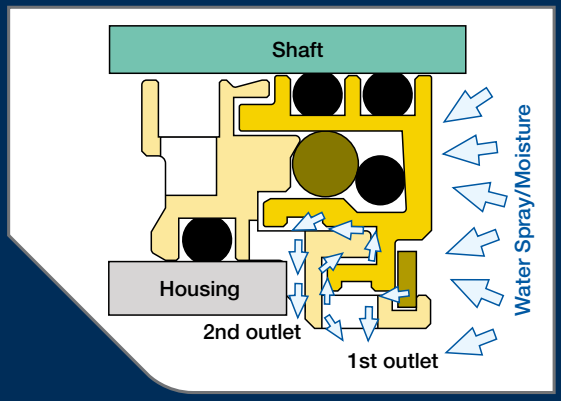


Design Features

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.



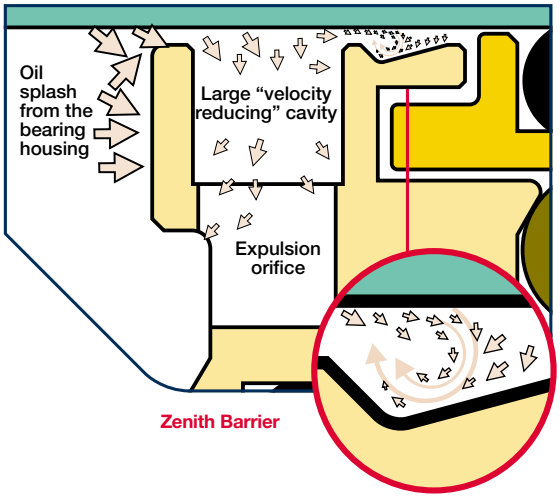
Contaminants are expelled in one of the two expulsion spaces

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.

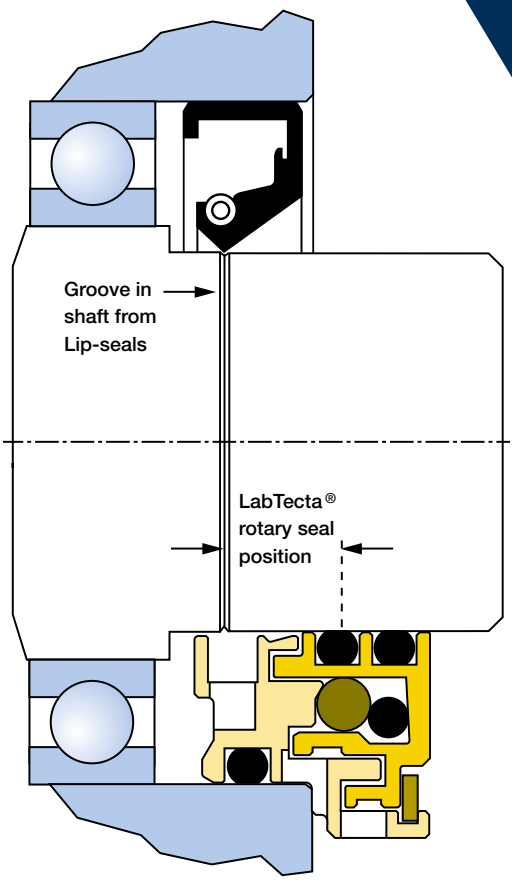
“Our purpose is to give our customers such exceptional service that they need never consider alternative sources of supply.”

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 841-2021
- Improve electrical safety by preventing water ingress
- Eliminate motor shaft damage due to rubbing
- Are maintenance free

** IEEE Petrochem Paper PCIC-94-01

IEEE 841-2021 (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.

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:

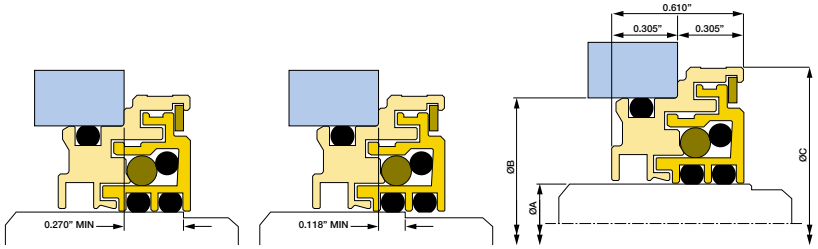
Dry running	20 m/s (3940 ft/min)
Oil Splash Lubrication	20 m/s (3940 ft/min)
Grease	20 m/s (3940 ft/min)

(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

DIM A	DIM B	DIM C	STOCK CODE
0.750	1.500	1.829	L1I06-PP-001-I12-
	1.625	1.829	L1I06-PP-001-I13-
	1.750	1.889	L1I06-PP-001-I14-
	1.875	2.014	L1I06-PP-001-I15-
0.875	1.625	1.954	L1I07-PP-001-I13-
	1.750	1.954	L1I07-PP-001-I14-
	1.875	2.014	L1I07-PP-001-I15-
	2.000	2.139	L1I07-PP-001-I16-
0.937	1.687	2.016	L1I081PP-001-I141
	1.812	2.016	L1I081PP-001-I151
	1.937	2.076	L1I081PP-001-I161
	2.062	2.201	L1I081PP-001-I171
1.000	1.750	2.079	L1I08-PP-001-I14-
	1.875	2.079	L1I08-PP-001-I15-
	2.000	2.139	L1I08-PP-001-I16-
	2.125	2.264	L1I08-PP-001-I17-
1.062	1.812	2.141	L1I091PP-001-I151
	1.937	2.141	L1I091PP-001-I161
	2.062	2.201	L1I091PP-001-I171
	2.187	2.326	L1I091PP-001-I181
1.125	1.875	2.204	L1I09-PP-001-I15-
	2.000	2.204	L1I09-PP-001-I16-
	2.125	2.264	L1I09-PP-001-I17-
	2.250	2.389	L1I09-PP-001-I18-
1.187	1.937	2.266	L1I101PP-001-I161
	2.062	2.266	L1I101PP-001-I171
	2.187	2.326	L1I101PP-001-I181
	2.312	2.451	L1I101PP-001-I191
1.250	2.000	2.329	L1I10-PP-001-I16-
	2.125	2.329	L1I10-PP-001-I17-
	2.250	2.389	L1I10-PP-001-I18-
	2.375	2.514	L1I10-PP-001-I19-
1.312	2.062	2.391	L1I111PP-001-I171
	2.187	2.391	L1I111PP-001-I181
	2.312	2.451	L1I111PP-001-I191
	2.437	2.576	L1I111PP-001-I201
1.375	2.125	2.454	L1I11-PP-001-I17-
	2.250	2.454	L1I11-PP-001-I18-
	2.375	2.514	L1I11-PP-001-I19-
	2.500	2.639	L1I11-PP-001-I20-
1.437	2.187	2.516	L1I121PP-001-I181
	2.312	2.516	L1I121PP-001-I191
	2.437	2.576	L1I121PP-001-I201
	2.562	2.701	L1I121PP-001-I211
1.500	2.250	2.579	L1I12-PP-001-I18-
	2.375	2.579	L1I12-PP-001-I19-
	2.500	2.639	L1I12-PP-001-I20-
	2.625	2.764	L1I12-PP-001-I21-
1.562	2.312	2.641	L1I131PP-001-I191
	2.437	2.641	L1I131PP-001-I201
	2.562	2.701	L1I131PP-001-I211
	2.687	2.826	L1I131PP-001-I221
1.625	2.375	2.704	L1I13-PP-001-I19-
	2.500	2.704	L1I13-PP-001-I20-
	2.625	2.764	L1I13-PP-001-I21-
	2.750	2.889	L1I13-PP-001-I22-
1.687	2.437	2.766	L1I141PP-001-I201
	2.562	2.766	L1I141PP-001-I211
	2.687	2.826	L1I141PP-001-I221
	2.812	2.951	L1I141PP-001-I231
1.750	2.500	2.829	L1I14-PP-001-I20-
	2.625	2.829	L1I14-PP-001-I21-
	2.750	2.889	L1I14-PP-001-I22-
	2.875	3.014	L1I14-PP-001-I23-
1.812	2.562	2.891	L1I151PP-001-I211
	2.687	2.891	L1I151PP-001-I221
	2.812	2.937	L1I151PP-001-I231
	2.937	3.076	L1I151PP-001-I241
1.875	2.625	2.954	L1I15-PP-001-I21-
	2.750	2.954	L1I15-PP-001-I22-
	2.875	3.014	L1I15-PP-001-I23-
	3.000	3.139	L1I15-PP-001-I24-
1.937	2.687	3.016	L1I161PP-001-I221
	2.812	3.016	L1I161PP-001-I231
	2.937	3.076	L1I161PP-001-I241
	3.062	3.201	L1I161PP-001-I251

DIM A	DIM B	DIM C	STOCK CODE
2.000	2.750	3.079	L1I16-PP-001-I22-
	2.875	3.079	L1I16-PP-001-I23-
	3.000	3.139	L1I16-PP-001-I24-
	3.125	3.264	L1I16-PP-001-I25-
2.062	2.812	3.141	L1I171PP-001-I231
	2.937	3.141	L1I171PP-001-I241
	3.062	3.201	L1I171PP-001-I251
	3.187	3.326	L1I171PP-001-I261
2.125	2.875	3.204	L1I17-PP-001-I23-
	3.000	3.204	L1I17-PP-001-I24-
	3.125	3.264	L1I17-PP-001-I25-
	3.250	3.389	L1I17-PP-001-I26-
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	3.062	3.266	L1I181PP-001-I251
	3.187	3.326	L1I181PP-001-I261
	3.312	3.451	L1I181PP-001-I271
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	3.125	3.329	L1I18-PP-001-I25-
	3.250	3.389	L1I18-PP-001-I26-
	3.375	3.514	L1I18-PP-001-I27-
2.312	3.062	3.391	L1I191PP-001-I251
	3.187	3.391	L1I191PP-001-I261
	3.312	3.451	L1I191PP-001-I271
	3.437	3.576	L1I191PP-001-I281
2.375	3.125	3.454	L1I19-PP-001-I25-
	3.250	3.454	L1I19-PP-001-I26-
	3.375	3.514	L1I19-PP-001-I27-
	3.500	3.639	L1I19-PP-001-I28-
2.437	3.187	3.516	L1I201PP-001-I261
	3.312	3.516	L1I201PP-001-I271
	3.437	3.576	L1I201PP-001-I281
	3.562	3.701	L1I201PP-001-I291
2.500	3.250	3.579	L1I20-PP-001-I26-
	3.375	3.579	L1I20-PP-001-I27-
	3.500	3.639	L1I20-PP-001-I28-
	3.625	3.764	L1I20-PP-001-I29-
2.562	3.312	3.641	L1I211PP-001-I271
	3.437	3.641	L1I211PP-001-I281
	3.562	3.701	L1I211PP-001-I291
	3.687	3.826	L1I211PP-001-I301
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	3.500	3.704	L1I21-PP-001-I28-
	3.625	3.764	L1I21-PP-001-I29-
	3.750	3.889	L1I21-PP-001-I30-
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	3.875	4.014	L1I22-PP-001-I31-
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	3.687	3.891	L1I231PP-001-I301
	3.812	3.951	L1I231PP-001-I311
	3.937	4.076	L1I231PP-001-I321
2.875	3.625	3.954	L1I23-PP-001-I29-
	3.750	3.954	L1I23-PP-001-I30-
	3.875	4.014	L1I23-PP-001-I31-
	4.000	4.139	L1I23-PP-001-I32-
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	3.812	4.016	L1I241PP-001-I311
	3.937	4.076	L1I241PP-001-I321
	4.062	4.201	L1I241PP-001-I331
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	4.125	4.264	L1I24-PP-001-I33-
3.062	3.812	4.141	L1I251PP-001-I311
	3.937	4.141	L1I251PP-001-I321
	4.062	4.201	L1I251PP-001-I331
	4.187	4.326	L1I251PP-001-I341
3.125	3.875	4.204	L1I25-PP-001-I31-
	4.000	4.204	L1I25-PP-001-I32-
	4.125	4.264	L1I25-PP-001-I33-
	4.250	4.389	L1I25-PP-001-I34-

DIM A	DIM B	DIM C	STOCK CODE
3.187	3.937	4.266	L1I261PP-001-I321
	4.062	4.266	L1I261PP-001-I331
	4.187	4.326	L1I261PP-001-I341
	4.312	4.451	L1I261PP-001-I351
3.250	4.000	4.329	L1I26-PP-001-I32-
	4.125	4.329	L1I26-PP-001-I33-
	4.250	4.389	L1I26-PP-001-I34-
	4.375	4.514	L1I26-PP-001-I35-
3.312	4.062	4.391	L1I271PP-001-I331
	4.187	4.391	L1I271PP-001-I341
	4.312	4.451	L1I271PP-001-I351
	4.437	4.576	L1I271PP-001-I361
3.375	4.125	4.454	L1I27-PP-001-I33-
	4.250	4.454	L1I27-PP-001-I34-
	4.375	4.514	L1I27-PP-001-I35-
	4.500	4.639	L1I27-PP-001-I36-
3.437	4.187	4.516	L1I281PP-001-I341
	4.312	4.516	L1I281PP-001-I351
	4.437	4.576	L1I281PP-001-I361
	4.562	4.701	L1I281PP-001-I371
3.500	4.250	4.579	L1I28-PP-001-I34-
	4.375	4.579	L1I28-PP-001-I35-
	4.500	4.639	L1I28-PP-001-I36-
	4.625	4.764	L1I28-PP-001-I37-
3.562	4.312	4.641	L1I291PP-001-I351
	4.437	4.641	L1I291PP-001-I361
	4.562	4.701	L1I291PP-001-I371
	4.687	4.826	L1I291PP-001-I381
3.625	4.375	4.704	L1I29-PP-001-I35-
	4.500	4.704	L1I29-PP-001-I36-
	4.625	4.764	L1I29-PP-001-I37-
	4.750	4.889	L1I29-PP-001-I38-
3.687	4.437	4.766	L1I301PP-001-I361
	4.562	4.766	L1I301PP-001-I371
	4.687	4.826	L1I301PP-001-I381
	4.812	4.951	L1I301PP-001-I391
3.750	4.500	4.829	L1I30-PP-001-I36-
	4.625	4.829	L1I30-PP-001-I37-
	4.750	4.889	L1I30-PP-001-I38-
	4.875	5.014	L1I30-PP-001-I39-
3.812	4.562	4.891	L1I311PP-001-I371
	4.687	4.891	L1I311PP-001-I381
	4.812	4.951	L1I311PP-001-I391
	4.937	5.076	L1I311PP-001-I401
3.875	4.625	4.954	L1I31-PP-001-I37-
	4.750	4.954	L1I31-PP-001-I38-
	4.875	5.014	L1I31-PP-001-I39-
	5.000	5.139	L1I31-PP-001-I40-
3.937	4.687	5.016	L1I321PP-001-I381
	4.812	5.016	L1I321PP-001-I391
	4.937	5.076	L1I321PP-001-I401
	5.062	5.201	L1I321PP-001-I411
4.000	4.750	5.079	L1I32-PP-001-I38-
	4.875	5.079	L1I32-PP-001-I39-
	5.000	5.139	L1I32-PP-001-I40-
	5.125	5.264	L1I32-PP-001-I41-
4.062	4.812	5.141	L1I331PP-001-I391
	4.937	5.141	L1I331PP-001-I401
	5.062	5.201	L1I331PP-001-I411
	5.187	5.326	L1I331PP-001-I421
4.125	4.875	5.204	L1I33-PP-001-I39-
	5.000	5.204	L1I33-PP-001-I40-
	5.125	5.264	L1I33-PP-001-I41-
	5.250	5.389	L1I33-PP-001-I42-
4.187	4.937	5.266	L1I341PP-001-I401
	5.062	5.266	L1I341PP-001-I411
	5.187	5.326	L1I341PP-001-I421
	5.312	5.451	L1I341PP-001-I431
4.250	5.000	5.329	L1I34-PP-001-I40-
	5.125	5.329	L1I34-PP-001-I41-
	5.250	5.389	L1I34-PP-001-I42-
	5.375	5.514	L1I34-PP-001-I43-
4.312	5.062	5.391	L1I351PP-001-I411
	5.187	5.391	L1I351PP-001-I421
	5.312	5.451	L1I351PP-001-I431
	5.437	5.576	L1I351PP-001-I441

DIM A	DIM B	DIM C	STOCK CODE
4.375	5.125	5.454	L1I35-PP-001-I41-
	5.250	5.454	L1I35-PP-001-I42-
	5.375	5.514	L1I35-PP-001-I43-
	5.500	5.639	L1I35-PP-001-I44-
4.437	5.187	5.516	L1I361PP-001-I421
	5.312	5.516	L1I361PP-001-I431
	5.437	5.576	L1I361PP-001-I441
	5.562	5.701	L1I361PP-001-I451
4.500	5.250	5.579	L1I36-PP-001-I42-
	5.375	5.579	L1I36-PP-001-I43-
	5.500	5.639	L1I36-PP-001-I44-
	5.625	5.764	L1I36-PP-001-I45-
4.562	5.312	5.641	L1I371PP-001-I431
	5.437	5.641	L1I371PP-001-I441
	5.562	5.701	L1I371PP-001-I451
	5.687	5.826	L1I371PP-001-I461
4.625	5.375	5.704	L1I37-PP-001-I43-
	5.500	5.704	L1I37-PP-001-I44-
	5.625	5.764	L1I37-PP-001-I45-
	5.750	5.889	L1I37-PP-001-I46-
4.687	5.437	5.766	L1I381PP-001-I441
	5.562	5.766	L1I381PP-001-I451
	5.687	5.826	L1I381PP-001-I461
	5.812	5.951	L1I381PP-001-I471
4.750	5.500	5.829	L1I38-PP-001-I44-
	5.625	5.829	L1I38-PP-001-I45-
	5.750	5.889	L1I38-PP-001-I46-
	5.875	6.014	L1I38-PP-001-I47-
4.812	5.562	5.891	L1I391PP-001-I451
	5.687	5.891	L1I391PP-001-I461
	5.812	5.951	L1I391PP-001-I471
	5.937	6.076	L1I391PP-001-I481
4.875	5.625	5.954	L1I39-PP-001-I45-
	5.750	5.954	L1I39-PP-001-I46-
	5.875	6.014	L1I39-PP-001-I47-
	6.000	6.139	L1I39-PP-001-I48-
4.937	5.687	6.016	L1I401PP-001-I461
	5.812	6.016	L1I401PP-001-I471
	5.937	6.076	L1I401PP-001-I481
	6.062	6.201	L1I401PP-001-I491
5.000	5.750	6.079	L1I40-PP-001-I46-
	5.875	6.079	L1I40-PP-001-I47-
	6.000	6.139	L1I40-PP-001-I48-
	6.125	6.264	L1I40-PP-001-I49-
5.125	5.875	6.204	L1I41-PP-001-I47-
	6.000	6.204	L1I41-PP-001-I48-
	6.125	6.264	L1I41-PP-001-I49-
	6.250	6.389	L1I41-PP-001-I50-
5.250	6.000	6.329	L1I42-PP-001-I48-
	6.125	6.329	L1I42-PP-001-I49-
	6.250	6.389	L1I42-PP-001-I50-
	6.375	6.514	L1I42-PP-001-I51-
5.375	6.125	6.454	L1I43-PP-001-I49-
	6.250	6.454	L1I43-PP-001-I50-
	6.375	6.514	L1I43-PP-001-I51-
	6.500	6.639	L1I43-PP-001-I52-
5.500	6.250	6.579	L1I44-PP-001-I50-
	6.375	6.579	L1I44-PP-001-I51-
	6.500	6.639	L1I44-PP-001-I52-
	6.625	6.764	L1I44-PP-001-I53-
5.625	6.375	6.704	L1I45-PP-001-I51-
	6.500	6.704	L1I45-PP-001-I52-
	6.625	6.764	L1I45-PP-001-I53-
	6.750	6.889	L1I45-PP-001-I54-
5.750	6.500	6.829	L1I46-PP-001-I52-
	6.625	6.829	L1I46-PP-001-I53-
	6.750	6.889	L1I46-PP-001-I54-
	6.875	7.014	L1I46-PP-001-I55-
5.875	6.625	6.954	L1I47-PP-001-I53-
	6.750	6.954	L1I47-PP-001-I54-
	6.875	7.014	L1I47-PP-001-I55-
	7.000	7.139	L1I47-PP-001-I56-

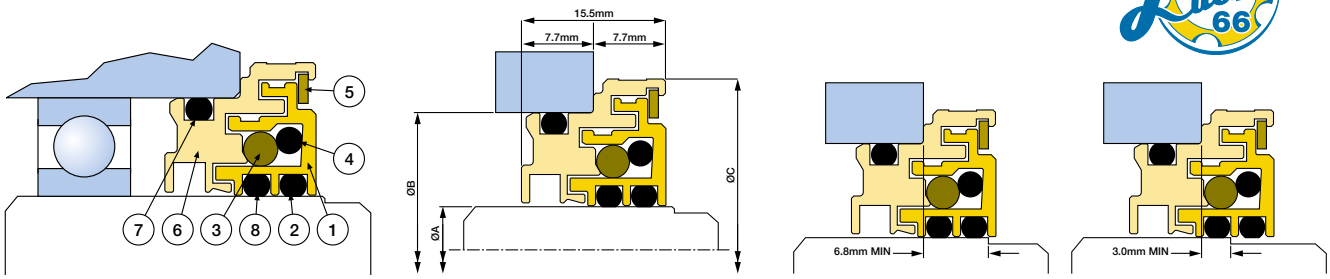
Dimensional Information (inches)
larger sizes available upon request

Not all sizes are inventoried. contact the LabTecta®66 team for details

UK: Email: sales@labtecta.com Phone: +44 (0) 1709 369966 Fax: +44 (0) 1709 720788

USA: Email: usasales@labtecta.com Phone: +1 865 531 0192 Fax: +1 865 531 0571

LabTecta®66 Dimensions — 16.0mm - 145.0mm



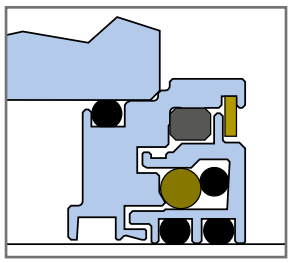
Twice the chance of fitting onto an unmarked shaft surface

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

Dimensional Information (mm) larger sizes available upon request



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! **WARNING**

> **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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ISO 9001, ISO 14001, ISO/IEC 20000, ISO/IEC 27001,ISO/TS 29001, ISO 37001, ISO 45001 & ISO 50001

Use double mechanical seals with hazardous products. Always take safety precautions:

- Guard your equipment
- Wear protective clothing

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Containment Seals (2CW-CS or 2NC-CS)

Monitoring the containment seal's (CS) integrity is important. Review the guidance to understand risks, apply best practices & ensure safe, reliable operation.

UK Sales & Technical advice:

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11/2025