AESSEAL®
ENVIRONMENTAL TECHNOLOGY

LabTecta®WBH
LabTecta®DWU

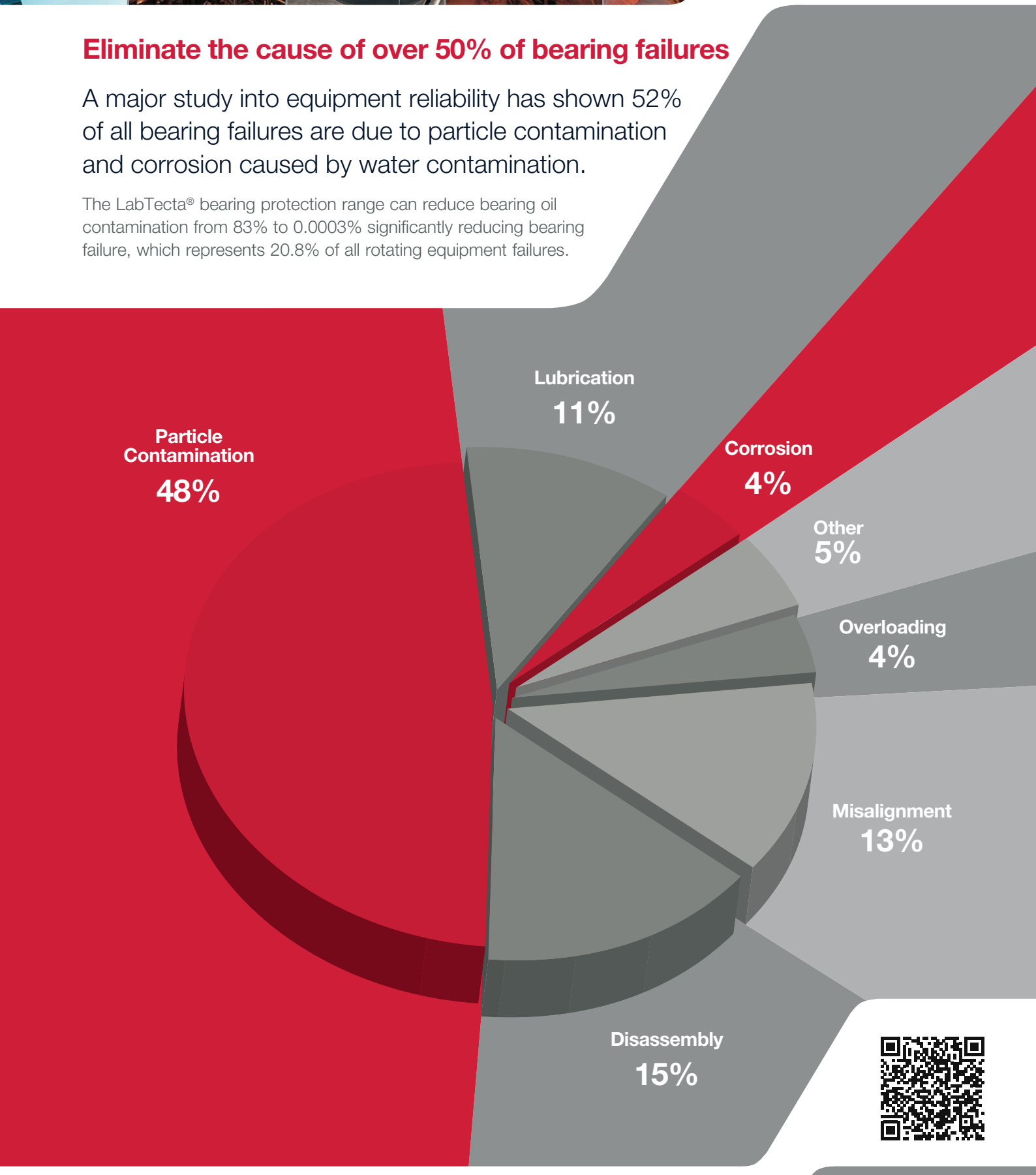
Bearing protection suitable for use with Warman® WBH® and Warman® DWU® pumps

- Advanced labyrinth seal design
- Robust heavy duty design
- Maintenance-free
- IP66 & IP69K ingress protection
- Proven to increase equipment reliability

Eliminate the cause of over 50% of bearing failures

A major study into equipment reliability has shown 52% of all bearing failures are due to particle contamination and corrosion caused by water contamination.

The LabTecta® bearing protection range can reduce bearing oil contamination from 83% to 0.0003% significantly reducing bearing failure, which represents 20.8% of all rotating equipment failures.



The LabTecta®WBH and LabTecta®DWU has been specifically designed for the Warman®WBH® and Warman®DWU® pump range

Slurry Leakage

Why bearing protection is needed to stop slurry getting into the adjoining bearing housing

LabTecta®WBH/DWU Features & Benefits

- Advanced labyrinth seal design
- PTFE grease inhibitor band for superior egress protection
- Robust heavy duty design
- Shut-off valve to prevent contamination from bearing chamber breathing
- Proven to increase equipment reliability
- Full range of end covers and stub shafts also available

LabTecta®WBH/DWU uses IP66 and IP69K technology

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.

Protection Rating against water

Level 9K — 80°C / 176°F Water jet at 80 to 100bar (1160 to 1450psi) and flow rate of 14 to 16c/m (3 to 3.5 gall/hr) from a distance of 10 to 15cm (3.9 to 5.9”) at 0, 40°, 60° and 90° for 30s each (DIN40050 Part 9 testing)

IP66/9K

Dynamic Lift O-ring:

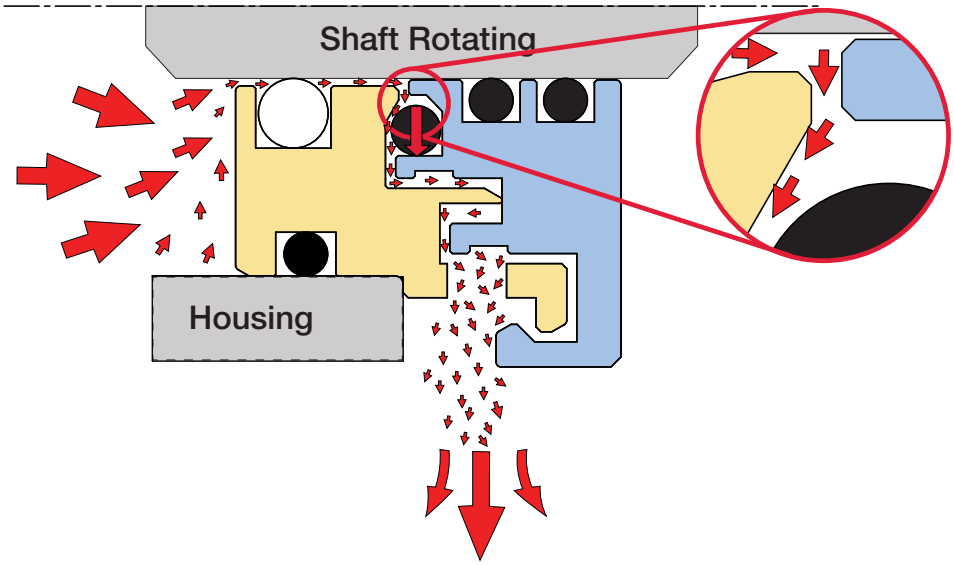
LabTecta®WBH/DWU uses dynamic lift technology to prevent premature bearing failure.

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.

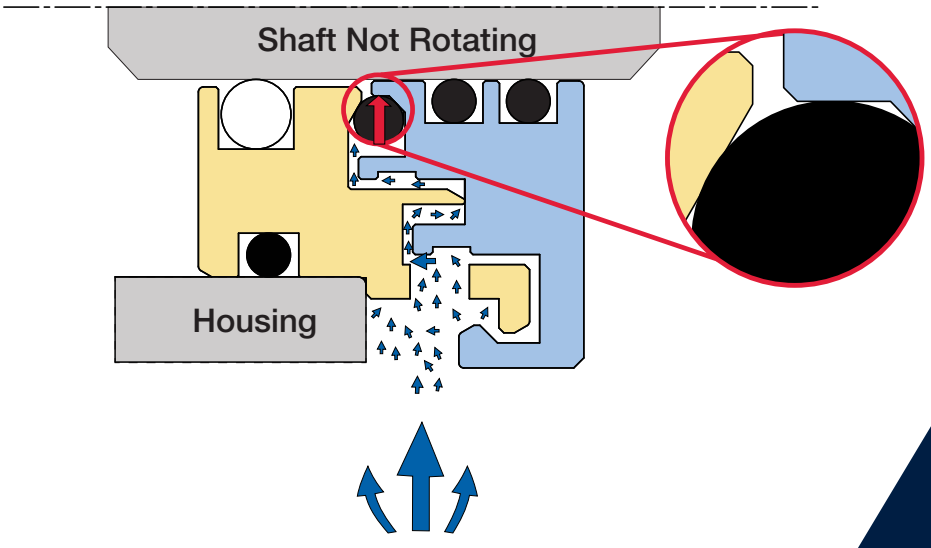
Essential Micro-Gap When Rotating

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.



Proven to increase equipment reliability

LabTecta®WBH

Bearing Assembly	End	Shaft size (mm)	Housing bore (mm)	LabTecta®WBH Stock Code
25 MD	PUMP	45	71	LM0450SP001M0710W---
	DRIVE	35	61	LM0350SP001M0610W---
40 MC	PUMP	45	71	LM0450SP001M0710W---
	DRIVE	35	61	LM0350SP001M0610W---
50 NC	PUMP	50	76	LM0500SP001M0700W---
	DRIVE	40	66	LM0400SP001M0660W---
75 NPC	PUMP	50	76	LM0500SP001M0700W---
	DRIVE	40	66	LM0400SP001M0660W---
75 PC	PUMP	70	96	LM0700SP001M0960W---
	DRIVE	55	81	LM0550SP001M0810W---
100 PQC	PUMP	70	96	LM0700SP001M0960W---
	DRIVE	55	81	LM0550SP001M0810W---
100 QC	PUMP	85	111	LM0850SP001M1110W---
	DRIVE	70	96	LM0700SP001M0960W---
150 QRC	PUMP	85	111	LM0850SP001M1110W---
	DRIVE	70	96	LM0700SP001M0960W---
150 RC	PUMP	115	141	LM1150SP001M1410W---
	DRIVE	100	126	LM1000SP001M1260W---
200 ESC	PUMP	115	141	LM1150SP001M1410W---
	DRIVE	100	126	LM1000SP001M1260W---
200 SC	PUMP	165	191	LM1650SP001M1910W---
	DRIVE	130	156	LM1300SP001M1560W---
250 SC	PUMP	165	191	LM1650SP001M1910W---
	DRIVE	130	156	LM1300SP001M1560W---
300 TC	PUMP	220	246	LM2200SP001M2460W---
	DRIVE	180	206	LM1800SP001M2060W---

LabTecta®DWU

Bearing Assembly	End	Shaft size (mm)	Housing bore (mm)	LabTecta®DWU Stock Code
75 NC	PUMP	50	76	LM0500SP001M0700W---
	DRIVE	40	66	LM0400SP001M0660W---
125 PC	PUMP	70	96	LM0700SP001M0960W---
	DRIVE	55	81	LM0550SP001M0810W---
150 QC	PUMP	85	111	LM0850SP001M1110W---
	DRIVE	70	96	LM0700SP001M0960W---
200 RC	PUMP	100	126	LM1000SP001M1260W---
	DRIVE	115	141	LM1150SP001M1410W---

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ENVIRONMENTAL TECHNOLOGY

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www.aesseal.com

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For further information and safe operating limits contact our technical specialists at the locations below.

THE QUEEN'S AWARDS FOR ENTERPRISE: INNOVATION 2021

THE QUEEN'S AWARDS FOR ENTERPRISE: SUSTAINABLE DEVELOPMENT 2022

AESSEAL plc is certified to:

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:

WARNING

- **Guard your equipment**
- **Wear protective clothing**

UK Sales & Technical advice:
AESSEAL plc
Mill Close
Bradmarsh Business Park
Rotherham,
S60 1BZ, UK

Tel: +44 (0) 1709 369966
E-mail: **enquiries@aesseal.info**
www.aesseal.com

NET ZERO

Net Zero champions globally

INVESTOR IN PEOPLE

USA Sales & Technical advice:
AESSEAL Inc.
355 Dunavant Drive
Rockford,
TN. 37853,
USA

Tel: +1 865 531 0192
E-mail: **usa@aesseal.com**
www.aesseal.com

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