



NSK

OLB SEAL FOR ADVANCED BEARING PROTECTION

For pillow block assemblies used in robust and sometimes severe applications, environmental contamination is an ever-present risk to achieving optimum bearing performance. With the goal of achieving utmost reliability, uptime and bearing life, NSK introduces our new OLB seal - an advanced solution that's uniquely designed to keep water and contaminants out while keeping clean bearing lubrication inside the housing.

PROVEN BENEFITS

- › High-performance seal preserves optimum bearing lubrication and prevents ingress of contaminants
- › Compact design - no significant increase in assembly width
- › Maintenance-free - no grease required
- › Longer seal life - non-contact design eliminates wear
- › Interchangeable, drop-in solution with no housing modifications required

CONDITIONS

CO CONTAMINATION

HS HIGH SPEEDS

HT HIGH TEMPERATURES

WT WATER EXPOSURE

APPLICATIONS

- › Construction machinery
- › Mining machinery
- › Steel machinery
- › Papermaking
- › Conveyors

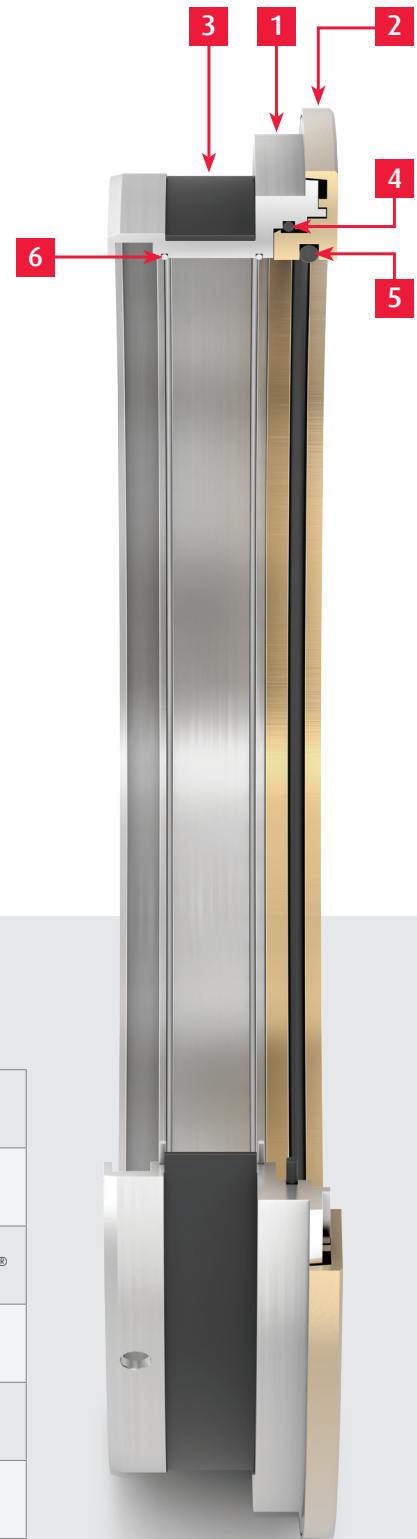
STAY IN MOTION. STAY IN CONTROL.

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DESIGN FEATURES

- › Non-contact, stator and rotor mechanical seal design with bronze rotor and aluminum stator
- › Internal design features a labyrinth of two collection chambers, excluding higher volumes of contaminant
- › Includes a drainage port for expelling contaminants and further reducing risk of ingress
- › Rotor design includes Viton® drive O-rings for seal alignment – to the shaft, and of seal internal geometry
- › Stator design includes a Viton® pillow block sealing sleeve and two Teflon® shaft alignment cords
- › An oil return offers enhanced return flow inside the assembly and higher volume capacity with no leakage
- › Easy installation - seals are delivered with special evaporating grease to facilitate locating the seals on the shaft



SEAL CHARACTERISTICS

CHARACTERISTICS	PERFORMANCE
Grease lubrication	excellent
Oil lubrication	excellent
Friction torque	very good
Speed	equal to bearing rating
Temperature range	up to 400°F
	PROTECTION
Dust	excellent
Large particles	excellent
Water	very good

SEAL ASSEMBLY

1	Stator - Aluminum
2	Rotor - Bronze
3	Pillow block sealing sleeve - Viton®
4	Unitizing O-ring - Viton®
5	Drive O-ring - Viton®
6	Alignment cord - Teflon®