For pillow block assemblies utilized 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, up-time and bearing life, NSK has introduced 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 Temperature
- **WT**: Water Exposure

**OLB SEAL FOR ADVANCED BEARING PROTECTION**
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

APPLICATIONS

- Construction machinery
- Mining machinery
- Steel machinery
- Paper machinery
- Conveyors

SEAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>CHARACTERISTICS</th>
<th>PERFORMANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grease lubrication</td>
<td>excellent</td>
</tr>
<tr>
<td>Oil lubrication</td>
<td>excellent</td>
</tr>
<tr>
<td>Friction torque</td>
<td>very good</td>
</tr>
<tr>
<td>Speed</td>
<td>equal to bearing rating</td>
</tr>
<tr>
<td>Temperature range</td>
<td>up to 400° F</td>
</tr>
<tr>
<td>PROTECTION</td>
<td></td>
</tr>
<tr>
<td>Dust</td>
<td>excellent</td>
</tr>
<tr>
<td>Large particles</td>
<td>excellent</td>
</tr>
<tr>
<td>Water</td>
<td>very good</td>
</tr>
</tbody>
</table>

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