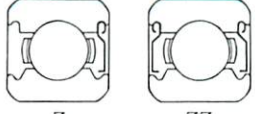
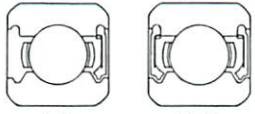
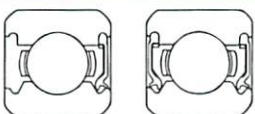
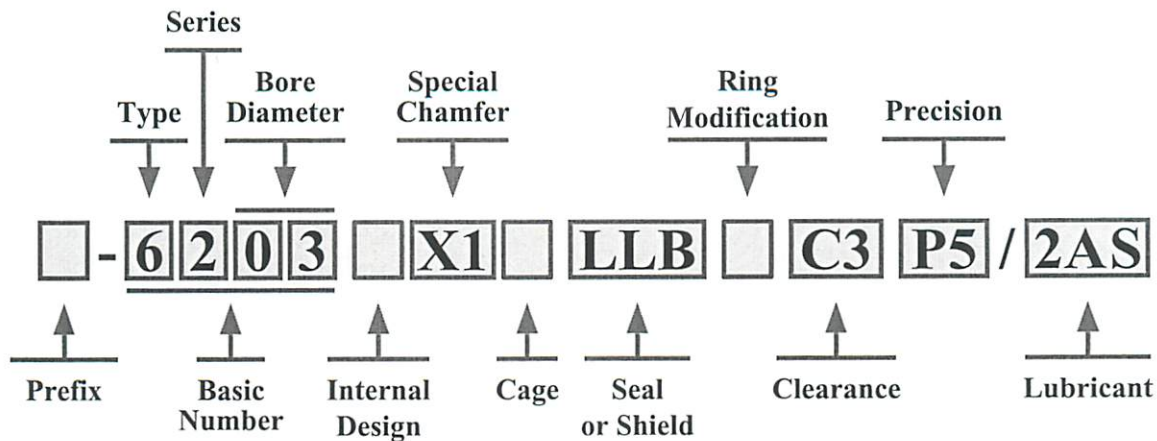


NTN

RADIAL BALL BEARING NUMBERING SYSTEM

SEAL STRUCTURE AND TYPE DESIGNATION	FEATURES
 <p>Z ZZ</p>	<p>The sealed V-slot around the inner ring creates an air and/or grease pocket which increases the labyrinth effect.</p> <p>This is a non-contact, low-friction torque type bearing assembly, which can be used effectively for general protection.</p>
 <p>LB LLB</p>	<p>Both sides of the seal edge have a circular concaved surface which creates several narrow-wide gaps along the V-shaped groove of the inner ring's sealed surface. The unique design ensures a perfect labyrinth effect.</p> <p>This non-contact, low friction bearing assembly requires very little torque and is highly resistant to dust build-up.</p>
 <p>LU LLU</p>	<p>The seal edge forms a double-lip. The inner lip touches the V-slot side of the inner ring's seal surface. There is a slight gap between the inner ring and the outer lip which produces the labyrinth effect. Even if friction causes the inner lip to wear, the outer lip constricts around the inner ring to compensate, and thus constantly preserving the perfect sealing effect.</p> <p>Due to the fact that it is a contact type seal bearing, the torque will be a little greater but the seal will provide the optimum protection from dust penetration.</p>



1. PREFIX
 - TS2: Heat stabilization for up to 320° F (160° C)
 - TS3: Heat stabilization for up to 390° F (200° C)
 - TS4: Heat stabilization for up to 480° F (250° C)
2. TYPE
 - 6: Single row deep groove ball bearings
 - 8, WC8: Single row deep groove ball bearings
 - BL: Maximum capacity
 - DE & DF: Special double row ball bearings
 - SC & SX: Special single row ball bearings
 - R: Inch series
 - TMB: Thermal mechanical bearing
3. INTERNAL DESIGN
 - A: Internal redesign, from A onward
 - U: Universal seal groove for open bearings
4. CHAMFER
 - Xn: Special chamfer, from 1 onward (X1, X2 ...)
5. CAGE
 - No Symbol: Pressed steel cage
 - J: Pressed steel cage
 - T1: Phenolic cage
 - T2: Nylon cage
 - L1: Machined brass cage
6. SEAL OR SHIELD
 - No Symbol: Open Type
 - LB, LLB: Non-contact rubber seal
 - LU, LLU: Double-lip contact rubber seal
 - LH, LLH: Light contact rubber seal
 - LUA, LLUA: Polyacrylic rubber seal
 - LUA1, LLUA1: Fluorocarbon rubber seal
 - Z, ZZ: Shield
 - Z1, ZZ1: Stainless steel shield
 - ZA, ZZA: Removable shield
7. RING MODIFICATION
 - N: Snap ring groove on outer ring, but without snap ring
 - NR: Snap ring groove on outer ring, snap ring included
 - /X.XX: Special bore, XX.XX in mm; Ex. 5/16" bore, /7.938
 - /XX.X: Special O.D., size XX.X in mm
8. INTERNAL CLEARANCE
 - C1: Radial clearance less than C2
 - C2: Radial clearance less than normal
 - C3: Radial clearance greater than normal
 - C4: Radial clearance greater than C3
 - C5: Radial clearance greater than C4
 - CSXX: Special radial clearance; XX is mean value in 0.001 mm units
9. TOLERANCE
 - P6: ISO class 6 (equivalent to ABEC 3)
 - P5: ISO class 5 (equivalent to ABEC 5)
 - P4: ISO class 4 (equivalent to ABEC 7)
 - PXn: Special tolerance, from 1 onward (PX1, PX2 ...)
 - Vn: Special requirement, from 1 onward (V1, V2 ...)
10. PRELUBRICANT (Typical)
 - 1E: Exxon Andok C grease
 - 1W: Anderson Oil Winsor Lube L-245X, MIL-L-6085A
 - 2AS: Shell Alvania #2 grease, MIL-G-18709A
 - 2E: Exxon Unirex N3
 - 3AS: Shell Oil Alvania #3 grease
 - 5C: Chevron SRI #2 grease, MIL-G-3545C
 - 5K: Kyodo Yushi Mullemp SRL
 - 5S: Shell Aeroshell #7 grease, MIL-G-23827A
 - 9B: Mobil 28, MIL-G-81322
 - L627: Exxon Polyrex EM