

## **Bearings / Bushings:**

### **Commercial Grade / Non Precision:**

**Ball bearings in a plastic raceway:** Economical light duty stainless steel balls in engineered plastic raceways. These bearings are ideal for wet environments where corrosion is a concern. They are free spinning and maintenance free. All plastic raceways are designed, engineered, and molded in our facility. Standard ball materials are 302 or 316 series stainless steel. Applications include food processing, clean rooms, packaging machinery, and general material handling. These bearings are identified by a 1 in the prefix of the part number. These bearings are not recommended for powered applications. Example - 1A5

### **Plated Steel / Plastic Housings**

Designed for light to moderate loads, these commercial grade ball bearings have hardened steel balls and machined inner and outer raceways. They are available with light oil or grease lubricant for driven systems. Plastic housings are available in conductive or non-conductive material with or without labyrinth seals. The labyrinth seal(s) provide protection to the bearing from dust, dirt, and airborne contaminants. These bearings are identified by a 2 in the prefix of the part number. Example - 2A4

### **Stainless Steel / Plastic Housings**

Designed for light to moderate loads, commercial grade stainless steel balls and raceways provide an excellent solution for corrosive operating environments. For maximum protection against contamination, some housings are available with labyrinth seal systems. Example - 2A5

### **Precision Grade / ABEC-1**

Designed for higher speeds and heavier loads, ABEC-1 precision bearings are available in chromium steel and optional 440, 304 or 316 stainless steel. ABEC-1 ball bearings and raceways are hardened, precision ground, and incorporate a ball retainer to eliminate bearing to bearing contact. Bearings are factory lubricated. Several seal/shield configurations are offered. Standard configuration is the Non-Contact Rubber Seal (LLB). Options include; the Contact Seal (2RS) and Non-Contact Metal Shields (ZZ). Bearing housings are available in metal or plastic. Plastic housings are made with conductive or non-conductive materials and available with or without labyrinth seals. Labyrinth seals provide additional bearing protection against dirt, dust, and other airborne contaminants. ABEC-1 bearings provide the highest load and speed capabilities, the lowest noise levels, and the longest life span of any available bearing unit. These bearings are identified by a 3 in the prefix of the part number. Example - 3A4

**Bushings:** Non ball bearing style units are designed for low speed, light to medium load applications. Bushing surface materials include; Ultra (Acetal plastic with Teflon Additives), CS2 Acetal, UHMW, and ABS plastic. Bushing insert materials include nylon, stainless steel, carbon steel and Ultra.