The single row deep groove ball bearing is the most popular type of roller bearings. Due to the deep grooves in the raceways of both inner and outer rings, the balls are supported in radial as well as axial direction, allowing also the bearing to compensate for small misalignments. They are non-separable, suitable for high speeds and they have an excellent load carrying capacity in radial as well as both axial directions.

**Versions**

- ZZ: one (Z) or two (ZZ) sides shielded
- RS: one (RS) or two (2RS) sides sealed
- NR: snap ring groove with snap ring on outer
- N: ring snap ring groove

The angular contact ball bearings are designed to carry radial as well as single direction axial loads. They can be mounted in pairs, depending on the application.

**Versions**

- Single Row Contact angle: B (40°)
- Bearings for paired use: BCB
The self-aligning ball bearing have two rows of balls and a spherical outer raceway. This allows alignments caused by shaft deflection or variations in housing alignment.

Series
1200 | 1300 | 2200 | 2300

Versions
Cylindrical bore or tapered (suffix K)
With tapered bore 1.12 and adapter sleeve

The single acting thrust ball bearings are designed to carry only one directional axial load. Double acting thrust ball bearings can carry axial loads in 2 directions.

Series
SINGLE ACTING:  51100 | 51200  
                51300 | 51400  
DOUBLE ACTING:  52200 | 52300 | 52400
APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc., and its affiliates with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer’s risk.

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