



ROD ENDS AND SPHERICAL BEARINGS

Engineering Innovation

Sealmaster® bearing innovation makes a great product even better with this enhanced three-piece rod end. Our proven design – with machined, high-tensile steel housing and one-piece race – has been optimized using finite element analysis (FEA) to add strength in key areas while maintaining industry-standard dimensions. The result is high quality and dependable rod ends and spherical bearings.



Engineering and Technical Support

Our bearing application engineers and technical customer service personnel are ready to assist you with answers and advice. Sealmaster® bearing application engineers have experience with a wide range of requirements and can guide you through product selection. Our technical services group can assist with general inquiries ranging from nomenclature and interchanges to product specifications. We also offer online tools to improve your productivity. These include product selection guides, electronic catalogs, product interchange guides, 2D and 3D CAD templates, and an extensive library of product presentations, instruction sheets, etc. You can access these at: www.RegalPTS.com.

Rod End and Spherical Bearing Product Features...

Machined Steel Housing

- High average tensile strength.
- High fatigue life.
- Large wrench flats to facilitate assembly and installation.
- Full catalog thread depth for maximum thread engagement.

One-piece Race

- Optimized spherical ball/race conformity for balanced load distribution.
- Precision ball/race fit for improved performance.
- Reduced “pound out” in applications with high frequency oscillation, vibration or shock loading.
- Less wear than rod ends with a two-piece race.
- Manufactured in steel, aluminum bronze and self lubricating Delrin*.

Ball

- Alloy steel, heat treated and chrome plated.
- Better wear resistance than carbon steel tin-nickel plated balls.



Dimensional data available at www.RegalPTS.com

Industries and Applications

Sealmaster® rod ends and spherical bearings are used in applications requiring motion transfer. Examples include:

- Cylinders and actuators
- Food processing
- Material handling
- Process control
- Printing
- Off highway and transportation
- Automation and robotics
- HVAC
- Car wash
- Packaging machinery
- Exercise and medical

*Delrin is believed to be the trademark and/or trade name of E. I. Du Pont De Nemours and Company and is not owned or controlled by Regal Beloit Corporation.

Rod End and Spherical Bearing Offering

Rod Ends				
Part	Series	Design	Capacity	Race
TR/TRE	Precision Series	3 PC	Standard	Steel
AR/ARE/ARE-20			Extra	Steel
CFF-T/CFM-T	Commercial Series	2 PC	Standard	Teflon* Lined
TF/TM			Standard	Bronze
CTFD/CTMD			Standard	Delrin*
CFF/CFM		2 PC	Standard	

Rod Ends				
Part	Series	Design	Capacity	Race
SBG	Precision Series	2 PC	Standard	Bronze
SBG-S/SBG-SA			Extra	Alloy Steel
SBG-SS/COR			Stand/Extra	Stainless Steel
BH-LS/BTS-LS			Heavy Duty	Carbon Steel
FLBG		3 PC	Standard	Bronze
COM	Commercial Series	2 PC	Standard	Steel

BTS-LS Sealed Spherical Bearings

- The Sealmaster® sealed design bearing is ideal for applications where bearings are exposed to dust, dirt, moisture and contaminants.
- Helps keep bearings lubricated.
- Integral synthetic rubber “bellows type” seals self-align with the bearing.
- Available in 3/4”, 1”, 1 1/4” and 1 1/2” bore sizes.
- Materials include:
 - Carbon steel race with protective corrosion-resistant coating.
 - Alloy steel, heat-treated, chrome-plated ball.



Standard Options

You can tailor Sealmaster® rod ends and spherical bearings with a variety of standard options, or contact us to discuss custom modifications.

- Y studs – to help facilitate right angle assemblies in a variety of linkage applications.
- Zerk type grease fittings where field re-lubrication is desirable.
- Teflon* lined rod ends.
- Different material combinations.
- Left and right hand threads for turnbuckle configurations.
- Cross-drilled oil hole in ball and race, and groove in ball ID on spherical bearings.

Custom Modifications

- Reduced clearance for applications requiring precision linkage control.
- Specified torque for Teflon* lined rod ends.
- Custom marking and part numbers for OEMs.
- Special dimensions (i.e. length to ball-center, thread sizes, etc.).
- Linkage assemblies.
- Flush (drive type) grease fittings.
- Stainless steel rod ends.

Consult Regal Technical Service at (800) 626-2093 or ApplicationEngineering.PTSolutions@regalbeloit.com for more information.



*Teflon is believed to be the trademark and/or trade name of The Chemours Company FC, LLC and is not owned or controlled by Regal Beloit Corporation.



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APPLICATION CONSIDERATIONS

The proper selection and application of 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/or its affiliates ("Regal") 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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