

YSSB/YSSB-V

High Misalignment Series, Stainless Steel,
Swaged Race, PTFE Lined (Optional V-Groove)



Spherical Bearings

YSSB/YSSB-V Series provides a high misalignment alternative (for extra range of motion and tight mounting applications) within our line of corrosion resistant precision stainless steel spherical bearings. Choose from plain (for press fit applications) or V-Groove (staked fit) mounting styles.

They feature a stainless steel outer race and are PTFE lined for extended wear life. They are swaged and machined around a thru hardened and precision ground stainless steel ball. Suited for many corrosive environment applications requiring stainless steel. The PTFE liner minimizes wear within the bearing's inner surface, reducing maintenance and increasing bearing life.

The YSSB/YSSB-V Series is just one of many products found within our broad line of spherical bearings. For full product line detail, contact us for a comprehensive catalog or visit www.tuthill.com and download individual product data sheets and other product information.



Description:

YSSB/YSSB-V
Spherical Bearings
High Misalignment Series,
Stainless Steel,
Swaged Race, PTFE Lined,
(Optional V-Groove)

Applications:

Numerous corrosive and "clean room or food grade" applications, including:

- Food equipment
- Racing
- Medical equipment
- Marine equipment
- Light industrial applications

Features:

- Suited for numerous non-rotational applications — for mounting into plates or shocks where room for attaching full rod ends is not available
- Stainless steel provides optimized corrosion resistance
- PTFE lined design minimizes wear between working surfaces (lower maintenance, increased life)
- Offered in plain (press fit) or V-Groove (staked fit) mounting styles
- Can be used in a wide range of temperatures: -65°F — 250°F (-54°C — 121°C)

Other Related Products:

- NSSB/NSSB-V
Stainless Steel, Swaged Race, Narrow Series, PTFE Lined, (Optional V-Groove)
- WSSB/WSSB-V
Stainless Steel, Swaged Race, Wide Series, PTFE Lined, (Optional V-Groove)

YSSB/YSSB-V

High Misalignment Series,
Stainless Steel, Swaged Race,
PTFE Lined, (Optional V-Groove)

Material

Ball

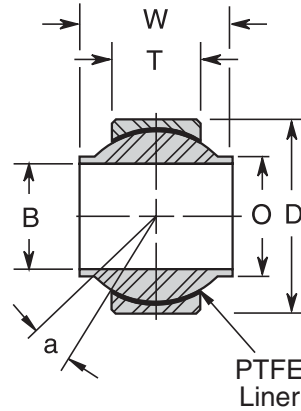
- 440c Stainless Steel
- Rc 55 min.

Race

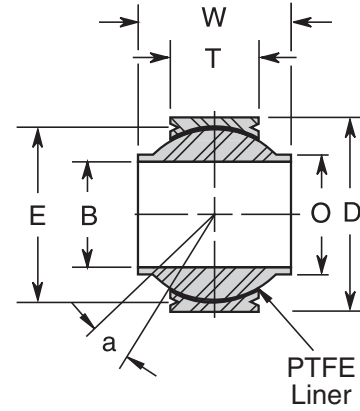
- 17-4 PH Stainless Steel, Heat Treated

Liner

- PTFE Liner, Permanently Bonded to Race I.D.



YSSB



YSSB-V

YSSB/YSSB-V CHART

Part Number		B	D	W	E	T	O	a°		Static Radial Limit Load (Pounds)	Static Axial Limit Load (Pounds)	Dynamic Oscillating Radial Load (Pounds)	Approx. Weight (Pounds)
Standard	V-Groove	+0.0015 -0.0005	+0.0000 -0.0005	+0.000 -0.002	+0.000 -0.010	±0.005	+0.000 -0.010	REF	REF				
		Ball Bore	Outside Diameter	Ball Width	V-Groove Diameter	Race Width	Shoulder Diameter	Ball Diameter	Misalign Angle				
YSSB4	YSSB4V	.2500	.7400	.593	.675	.255	.390	.593	23	7,100	450	3,800	.036
YSSB5	YSSB5V	.3125	.9060	.813	.811	.345	.512	.781	23	16,000	2,000	7,200	.070
YSSB6	YSSB6V	.3750	.9060	.813	.811	.345	.512	.781	23	16,000	2,000	7,200	.068
YSSB7	YSSB7V	.4375	1.0000	.875	.905	.345	.618	.875	22	19,300	2,000	8,100	.095
YSSB8	YSSB8V	.5000	1.1250	.937	1.030	.401	.730	1.000	19	26,100	3,200	10,900	.159
YSSB10	YSSB10V	.6250	1.3750	1.200	1.255	.567	.856	1.250	20	44,500	7,000	20,000	.245
YSSB12	YSSB12V	.7500	1.5625	1.280	1.442	.620	.970	1.375	18	54,800	8,700	24,200	.315

Chart notes: This part is also available with an optional 52100 heat treated and hard chrome plated ball. To specify, use part number YSBT10. See technical section for "V" groove dimensions and staking instructions.

Linking Motion
& Control...
The Tuthill
Solution



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Controls Group

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• Review "Installation of Spherical Bearing" section of Tuthill Technical/Application Data brochure for installation instructions. Please refer to the Warning statement and appropriate installation usage information in the Tuthill Technical/Application Data brochure.
• For application assistance/technical questions, please contact (tlgtech@tuthill.com) or phone (260-749-5105)