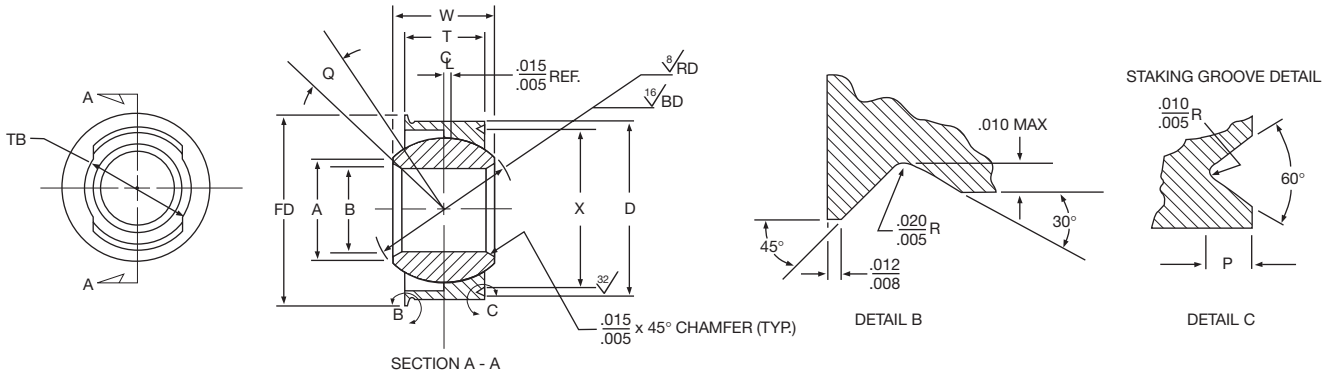
SECTION 3

LOADER SLOT BEARINGS

Plain



Part Number	(B) Bore Diameter	(D) Outside Diameter	(W) Ball Width	(T) Race Width	(BD) Ball Spherical Diameter	(RD) Race Spherical Diameter	(A) Ball Flat Diameter	(TB) Thru Bore	(Q) Mis-alignment	(FD) Flange Diameter	(P) V-Groove Depth	(X) V-Groove Centerline	Radial Static Limit Load◊	Axial Static Limit Load◊	Weight
	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Ref.	Inch	Inch	Inch	lbs.	lbs.	lbs.
	+.0000	+.0000	+.000	+.003	+.0000	+.0005	Ref.	+.003		+.002	+.004	+.003		Ref.	Ref.
	-.0005	-.0005	-.002	-.003	-.0005	-.0000		-.003		-.002	-.004	-.003			
AMB3	.1900	.5625	.281	.218	.4060	.4070	.293	.360	10°	.582	.026	.494	2820	995	.02
AMB4	.2500	.6562	.343	.250	.5000	.5010	.364	.449	12°	.676	.026	.588	4880	1160	.02
AMB5	.3125	.7500	.375	.281	.5625	.5635	.419	.503	11°	.770	.026	.682	8920	1320	.03
AMB6	.3750	.8125	.406	.312	.6250	.6260	.475	.563	10°	.852	.036	.714	14260	1630	.04
AMB7	.4375	.9062	.437	.343	.7180	.7190	.572	.651	9°	.946	.036	.808	20800	1810	.05
AMB8	.5000	1.0000	.500	.390	.8125	.8135	.640	.733	9°	1.040	.036	.902	23800	2000	.07
AMB9	.5625	1.0937	.562	.437	.8750	.8760	.671	.785	9°	1.174	.056	.970	26890	2550	.09
AMB10	.6250	1.1875	.625	.500	.9680	.9690	.739	.875	9°	1.267	.056	1.064	29070	2770	.11
AMB12	.7500	1.4375	.750	.593	1.1870	1.1880	.920	1.056	9°	1.517	.056	1.314	35210	3350	.21
AMB14	.8750	1.5625	.875	.703	1.3120	1.3130	.978	1.138	9°	1.642	.056	1.439	40500	3640	.27
AMB16	1.0000	1.7500	1.000	.797	1.5000	1.5010	1.118	1.300	9°	1.830	.056	1.627	46580	4080	.39

◊ Static limit loads calculated are approximate values, based on the following:
Radial - .0018 inch pin deflection.
Axial - bearing push-out (of housing).

Notes:

- Nitride or Malcomize spherical race ID.
- Balls rotate freely under finger pressure @ 72°F.
- Balls are fully interchangeable. No selective assembly allowed.
- Operating temperature range -65°F to 350°F.

Materials (AMB)

Part No.	Ball	Race
Catalog No.	Stellite® #6	17-4PH
	AMS 5387	AMS 5643
	Rc37 min.	Rc34-40

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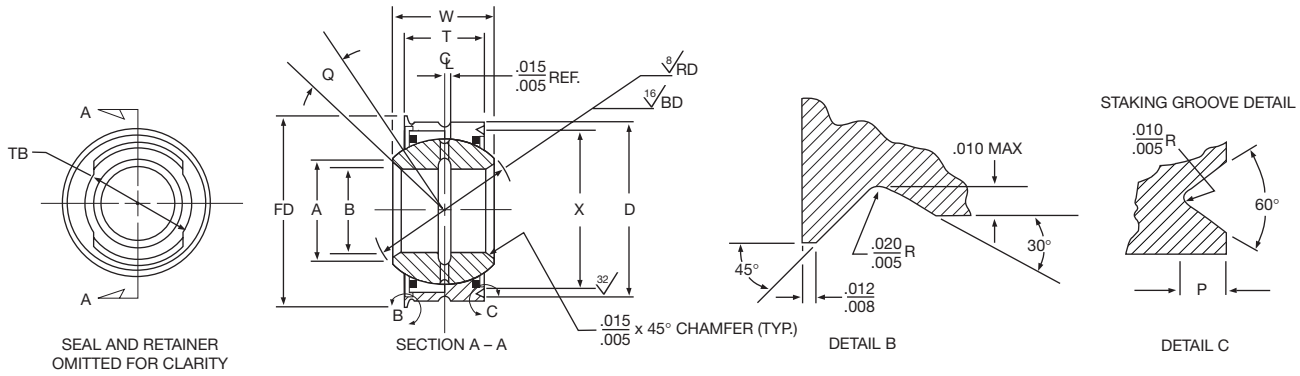
NHBB Part Numbering

AMB X X XX X X

- " "-Bearing Assembly (No Suffix Required)
- "B"-Replacement Ball Component Only
- Dry Film Lubricant
- "1"-Race Spherical Surface
- "2"-Ball Bore
- "3"-Ball Spherical Surface
- Chamfer/V-Groove And Flange/Double V-Groove
- " "-Chamfered Outer Race (No Suffix Required)
- "V"-V-Groove And Flange
- "V V"-Double V-Groove No Flange
- Bore Size In 1/16" Increments
- Basic Part Number

Sealed



Part Number	(B) Bore Diameter	(D) Outside Diameter	(W) Ball Width	(T) Race Width	(BD) Ball Spherical Diameter	(RD) Race Spherical Diameter	(A) Ball Flat Diameter	(TB) Thru Bore	(Q) Mis-alignment	(FD) Flange Diameter	(P) V-Groove Depth	(X) V-Groove Centerline	Radial Static Limit Load◊	Axial Static Limit Load◊	Weight
	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Ref.	Inch	Inch	Inch	lbs.	lbs.	lbs.
	+.0000	+.0000	+.000	+.002	+.0000	+.0005	+.003			+.002	+.004	+.003			Ref.
	-.0005	-.0005	-.002	-.002	-.0003	-.0000	-.003			-.002	-.004	-.003			
AMBG4	.2500	.7500	.375	.280	.5625	.5635	.419	.515	11°	.770	.026	.682	3650	1320	.04
AMBG5	.3125	.8125	.375	.300	.6250	.6260	.500	.574	7° 30'	.852	.036	.714	8370	1630	.04
AMBG6	.3750	.8750	.406	.312	.6865	.6875	.554	.635	8°	.915	.036	.777	14200	1750	.05
AMBG7	.4375	.9375	.437	.360	.7500	.7510	.610	.698	6° 30'	.977	.036	.839	19900	1880	.06
AMBG8	.5000	1.0000	.500	.410	.8125	.8135	.640	.740	7°	1.040	.036	.902	22750	2000	.08
AMBG9	.5625	1.1250	.562	.460	.9060	.9070	.710	.814	7° 30'	1.205	.056	1.002	25690	2620	.11
AMBG10	.6250	1.2500	.625	.510	1.0000	1.0010	.780	.900	7° 30'	1.330	.056	1.127	26530	2910	.15
AMBG12	.7500	1.5000	.750	.624	1.1875	1.1885	.920	1.075	7°	1.580	.056	1.377	33640	3500	.25
AMBG14	.8750	1.7500	.875	.730	1.3750	1.3760	1.060	1.238	7°	1.830	.056	1.627	39140	4080	.40
AMBG16	1.0000	1.8750	1.000	.812	1.5625	1.5635	1.200	1.410	8°	1.955	.056	1.752	45790	4370	.49
AMBG18	1.1250	2.1250	1.125	.936	1.7500*	1.7510	1.340	1.556	7° 30'	2.205	.056	2.002	50420	7960	.73
AMBG20	1.2500	2.3125	1.250	1.030	1.9375*	1.9385	1.480	1.720	8°	2.392	.056	2.189	56870	8670	.94
AMBG22	1.3750	2.5625	1.375	1.124	2.1250*	2.1260	1.620	1.885	7° 30'	2.642	.056	2.439	62560	9610	1.27
	+.0010	+.0000	+.000		+.0000	+.0006									
	-.0000	-.0008	-.003		-.0005	-.0000									
AMBG24	1.5000	2.8125	1.500	1.250	2.3125*	2.3135	1.760	2.030	7° 30'	2.892	.056	2.689	67280	10540	1.70
AMBG26	1.6250	3.0000	1.625	1.350	2.5000*	2.5010	1.900	2.190	7° 30'	3.080	.056	2.877	73060	11250	2.07
AMBG28	1.7500	3.1875	1.750	1.450	2.6875	2.6885	2.040	2.350	8°	3.267	.056	3.064	78840	11950	2.49
AMBG30	1.8750	3.3750	1.875	1.560	2.8750	2.8760	2.180	2.505	7° 30'	3.455	.056	3.252	84150	12650	2.96
AMBG32	2.0000	3.6250	2.000	1.680	3.1250	3.1260	2.401	2.725	7°	3.705	.056	3.502	88980	13590	3.72

* Ball spherical diameter tolerance +.0000/-.0004.
◊ Static limit loads are calculated approximate values, based on the following: Radial - .0018 inch pin deflection. Axial - bearing push-out (of housing).

Notes:

- Nitride or Malcomize spherical race ID.
- Balls rotate freely under finger pressure @ 72°F.
- Balls are fully interchangeable. No selective assembly allowed.
- Operating temperature range -65°F to 350°F.

Materials (AMBG)

Part Number	Ball	Race	Seal	Retainer	Pellet/Patch
Catalog No. + D	BeCu ASTM B196 Rc36 min.	17-4PH AMS 5643 Rc34-40	TEFLON®	17-4PH AMS 5643 Rc40-44	Nylon
Catalog No. + C	Stellite® #6 AMS 5387 Rc37 min.	”	”	”	”

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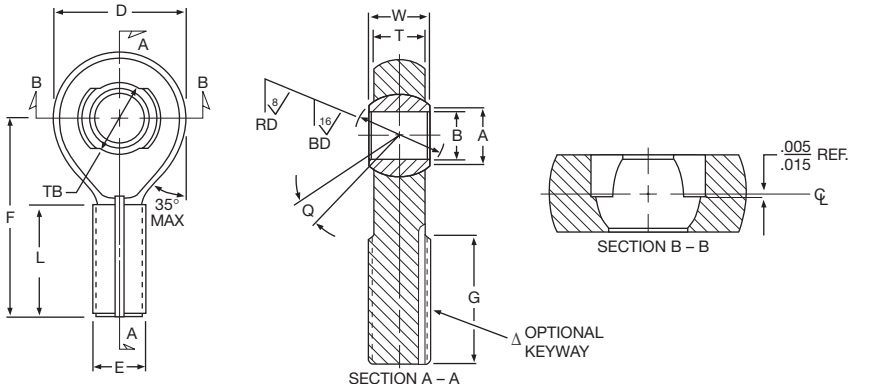
NHBB Part Numbering

AMBG X X V X XX X

- X: “ ”-Bearing Assembly (No Suffix Required); “B”-Replacement Ball Component Only
- XX: “N”-No Lubrication Holes Or Grooves. Use With Code “C” Only; “G”-Circumferential Lube Groove On Race O.D. With Equally Spaced Lube Holes; “A”-Circumferential Lube Groove On Ball O.D. And Bore With Equally Spaced Lube Holes And Transverse Grooves On Ball O.D.; “GA”-Both “G” And “A” As Detailed Above
- X: “D”-Beryllium Copper/ASTM B196 (Rc37 Min) Ball**; “C”-Stellite 6/AMS 5387 (Rc37 Min) Ball
- V: V-Groove And Flange
- X: Bore Size In 1/16” Increments
- AMBG: Basic Part Number

**BeCu Balls 18+ up Rc36 min.

Rod End – 2-Piece Male Thread



Δ For keyway details, refer to engineering section, page 68.

Part Number	(B) Bore Diameter	(D) Head Diameter	(W) Ball Width	(T) Body Width	(BD) Ball Spherical Diameter	(RD) Rod End Spherical Diameter	(A) Ball Flat Diameter	(Q) Mis-alignment	(TB) Thru Bore	(F) Ball C/L To End	(E) Thread Size	(L) Thread Length	(G) Keyway Flat	Limit Static Radial Load	Ultimate Static Radial Load	Weight
	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Ref.	Inch	Inch		Inch	Inch	lbs.	lbs.	lbs.
	+.0000	+.010	+.000	+.010	+.0000	+.0005	Ref.		+.003	+.010		+.031	+.020			Ref.
	-.0005	-.010	-.002	-.010	-.0005	-.0000			-.003	-.010	UNJF-3A	-.031	-.020			
AMBM3	.1900	.680	.281	.228	.4060	.4070	.293	10°	.360	1.315	1/4-28	.775	.896	2820	4950	.04
AMBM4	.2500	.827	.343	.260	.5000	.5010	.364	10°	.449	1.443	1/4-28	.775	.896	3380	7200	.05
AMBM5	.3125	.984	.375	.291	.5625	.5635	.419	10°	.503	1.948	5/16-24	1.187	1.308	5440*	11250	.08
AMBM6	.3750	1.131	.406	.322	.6250	.6260	.475	9°	.563	2.030	3/8-24	1.187	1.308	8380*	15750	.12
AMBM7	.4375	1.294	.437	.353	.7180	.7190	.530	8°	.651	2.250	7/16-20	1.281	1.402	11320*	19350	.17
AMBM8	.5000	1.459	.500	.400	.8125	.8135	.600	8°	.733	2.544	1/2-20	1.468	1.589	15420*	25200	.25
AMBM10	.6250	1.763	.625	.510	.9680	.9690	.739	8°	.857	2.832	5/8-18	1.562	1.683	24910*	40500	.46
AMBM12	.7500	2.140	.750	.603	1.1870	1.1880	.920	8°	1.056	3.193	3/4-16	1.687	1.808	35210	58500	.77
AMBM14	.8750	2.372	.875	.713	1.3120	1.3130	.980	8°	1.138	3.677	7/8-14	2.000	2.121	40500	78300	1.14
AMBM16	1.0000	2.681	1.000	.807	1.5000	1.5010	1.118	9°	1.300	3.968	1-12	2.100	2.221	46580	101250	1.65

*Shank limited.

NHBB Part Numbering

AMBM L (XX) W X X

- " "-Rod End Assembly (No Suffix Required)
  "B"-Replacement Ball Component Only
- Dry Film Lubricant
  "1"-Race Spherical Surface
  "2"-Ball Bore
  "3"-Ball Spherical Surface
- Add "W" For Keyway
- Bore Diameter in multiples of 1/16 inch
- Add "L" For Left Hand Thread
- Basic Part Number

Notes:

- Nitride or Malcomize spherical body ID.
- Balls rotate freely under finger pressure @ 72°F.
- Balls are fully interchangeable. No selective assembly allowed.
- After limit load, slight crazing of the Nitride/Malcomized surface treatment may occur.

Materials

Part No.	Ball	Body
Catalog No.	Stellite® #6, AMS 5387, Rc37 min.	17-4PH AMS 5643 or AMS 5355, Rc34-40

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