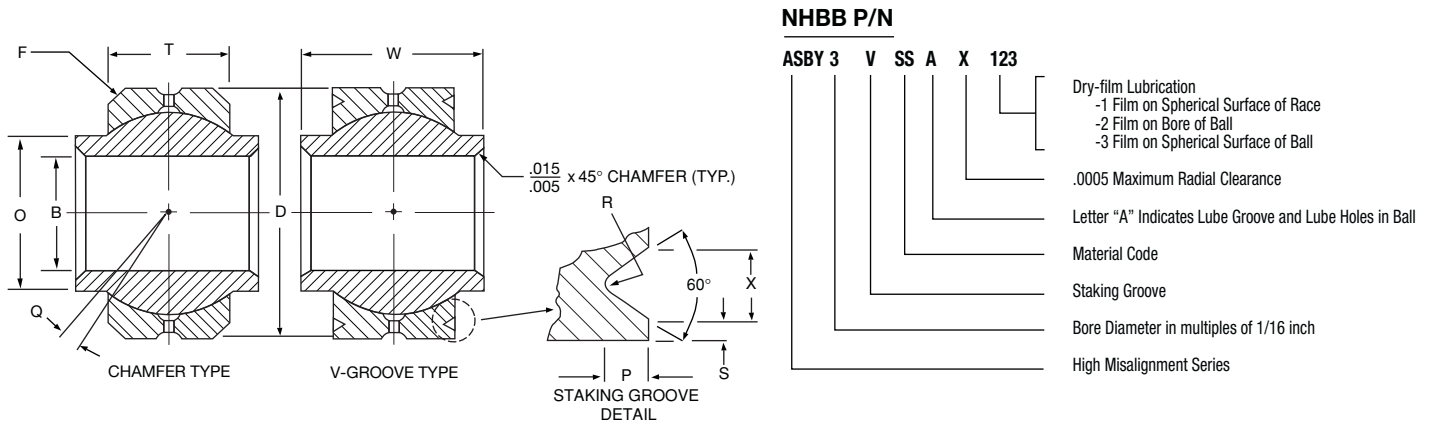


SPHERICAL BEARINGS – Metal-to-Metal

High Misalignment



Part Number V-Grooved*	(B) Bore Diameter	(D) Outside Diameter	(W) Ball Width	(T) Race Width	(O) Shoulder Diameter	Ball Diameter	(F) Race Chamfered x 45°	(Q) Mis- alignment	(P)	(R)	(S)	(X)	Limit Static Radial Load		Weight
	Inch +.0000 -.0005	Inch +.0000 -.0005	Inch +.000 -.005	Inch +.010 -.000	Inch Ref.	Inch Ref.	Inch +.000 -.010	Ref.	Inch +.000 -.015	Inch +.000 -.010	Inch +.000 -.010	Inch +.000 -.010	lbs. Bronze Race	lbs. Steel Race	
ASBY3V	.1900	.5625	.500	.205	.319	.437	.020	15°	.030	.015	.020	.045	2470	4060**	.018
ASBY4V	.2500	.7400	.593	.250	.390	.593	.022	24°	.030	.015	.020	.045	4680	7040**	.036
ASBY5V	.3125	.6875	.625	.250	.418	.593	.022	20°	.030	.015	.020	.045	4680	8430	.029
ASBY6V	.3750	.9060	.813	.340	.512	.781	.032	23°	.030	.015	.020	.045	9060	15860**	.068
ASBY7V	.4375	1.0000	.875	.340	.618	.875	.032	22°	.030	.015	.020	.045	10150	18270	.095
ASBY8V	.5000	1.1250	.937	.396	.730	1.000	.032	20°	.040	.020	.030	.055	14400	25920	.159
ASBY10V	.6250	1.3750	1.200	.562	.856	1.250	.032	20°	.040	.020	.030	.055	27440	49390	.245
ASBY12V	.7500	1.5625	1.280	.615	.970	1.375	.044	18°	.040	.020	.030	.055	33820	60880	.315
ASBY14V	.8750	1.7500	1.400	.620	1.140	1.531	.044	18°	.060	.020	.030	.080	36510	65720	.430
ASBY16V	1.0000	2.1250	1.875	.830	1.278	1.875	.044	21°	.060	.020	.030	.080	64410	115930	.831
ASBY18V	1.1250***	2.3125***	1.875	.937	1.400	2.062	.044	20°	.060	.020	.030	.080	78560	141410	1.096
ASBY20V	1.2500***	2.5000***	1.875	1.000	1.523	2.250	.044	21°	.060	.020	.030	.080	92810	167060	1.318
ASBY22V	1.3750***	2.7500***	2.125	1.093	1.670	2.500	.044	22°	.060	.020	.030	.080	91800	206550	1.800
ASBY24V	1.5000***	3.0000***	2.250	1.170	1.800	2.672	.044	21°	.060	.020	.030	.080	106340	239280	2.223

* For chamfered version, delete 'V' from part number.

** Based on pin limitation.

*** Bore and O.D. tolerance: +.0000-.0008.

Notes:

- Radial Clearance: Free running to .002 max.
- Dimensions: All dimensions apply after plating.
- Options: For bearings without lubrication holes and grooves, add suffix "300" to part number (Example: ASBY5-300, ASBY16VCR300).
- Groove dimensions on ID of race and grease holes through race are before bearing assembly, but swaging shall not restrict grease flow.

Materials

Part No.	Ball	Race
Catalog No.	52100 Alloy Steel, Chrome Plated†	Aluminum Bronze (AMPCO® 15), Cadmium Plated†
Catalog No. + S	"	4130 Alloy Steel, Cadmium Plated†
Catalog No. + SS	"	CRES 17-4PH
Catalog No. + CR	CRES 440C	"
Catalog No. + CRP	CRES 440C, Chrome Plated†	"

†Plating: When specified in materials block, ball spherical diameter and ends are hard chrome plated per AMS-QQ-C-320, CL. 2 (.0002 to .0005 inch thickness). All external surfaces of race are cadmium plated per AMS-QQ-P-416.

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