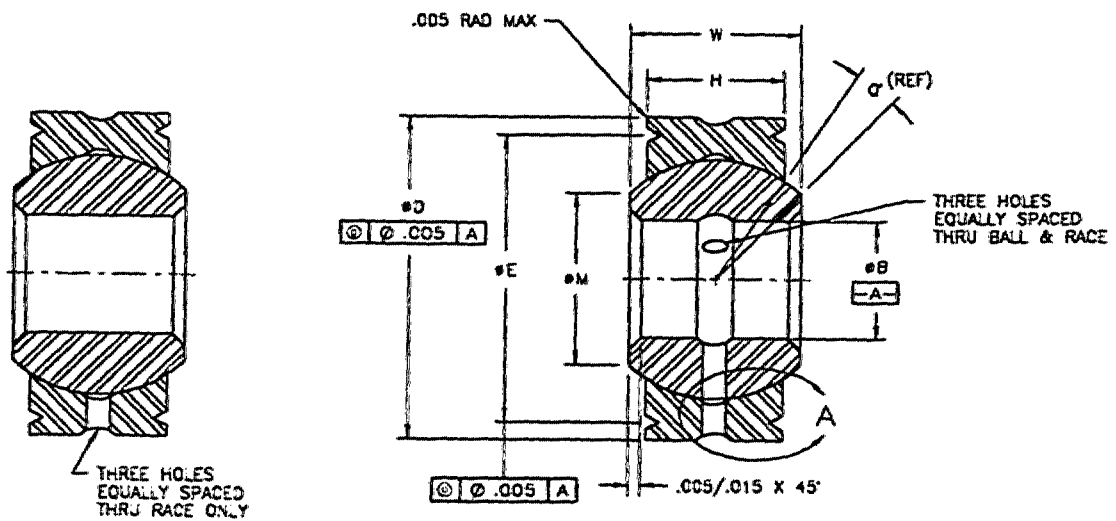


THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDS SPECIFIED IN THE SOLICITATION: MIL-B-81936

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

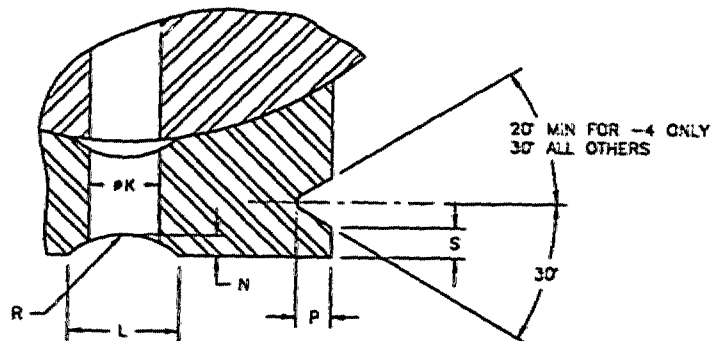
FORM APPROVED
OMB NO. 0704-0188

ⓑ



M81936/1()R

M81936/1()



DETAIL A

ⓑ DENOTES CHANGES

PREPARING ACTIVITY: NAVY - AS

CUSTODIANS: ARMY-AV NAVY-

AIR FORCE-11 OLA-

REVIEW: OLA-IS, AIR FORCE-99, ARMY-AR, MI

PROJECT NUMBER: 3120-0744-01

DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

MILITARY SPECIFICATION SHEET

TITLE

BEARING, PLAIN, SELF-ALIGNING,
BE CU BALL, CRES RACE,
(WITH STACKING GROOVE) -65°F TO +350°F

SPECIFICATION SHEET NUMBER

MIL-B-81936/1 REV B
5 DEC 94

SUPERSEDING

MIL-B-81936/1A 22 NOV 93

AMSC - N/A

FSC 3120

PAGE 1 OF 4

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODSS SPECIFIED IN THE SOLICITATION: MIL-B-81936

FORM APPROVED
OMB NO. 0704-0188

TABLE I. DIMENSIONS

TABLE 1. DIMENSIONS															
DASH NUMBER	ØB	ØD	ØE	H		ØK	L	ØM	N	P	Q	R	S	W	
LUBE GROOVES AND HOLES IN RACE ONLY	LUBE GROOVES AND HOLES IN BALL AND RACE	BORE +.0000 -.0005	OUTSIDE DIA +.0000 -.0005	+ .000 - .010	RACE WIDTH +.000 -.005	BALL DIA MAX	LUBE HOLE DIA THRU RACE AND BALL	GROOVE WIDTH ID & OD OF RACE & OD OF BALL	MIN	GROOVE DEPTH ID & OD OF RACE & OD OF BALL	+ .000 - .015	REF	GROOVE RADIUS ID & OD OF RACE & OD OF BALL	+ .000 - .010	BALL WIDTH +.000 -.005
4R	4	.2500	.6562	.596	.250	.501	.032/.062	.042/.078	.357	.010/.015	.030	12	.030/.062	.020	.343
5R	5	.3125	.7500	.652	.281	.563	.042/.062	.042/.078	.413	.010/.015	.040	11	.030/.062	.030	.375
6R	6	.3750	.8125	.714	.312	.657	.042/.062	.042/.078	.509	.010/.015	.040	9	.030/.062	.030	.406
7R	7	.4375	.9062	.808	.343	.719	.052/.062	.065/.094	.563	.010/.015	.040	8	.060/.094	.030	.437
8R	8	.5000	1.0000	.878	.390	.814	.052/.062	.065/.094	.634	.010/.015	.060	8	.060/.094	.030	.500
9R	9	.5625	1.0937	.972	.437	.876	.052/.062	.065/.094	.664	.010/.015	.060	8	.060/.094	.030	.562
10R	10	.6250	1.1875	1.065	.500	.969	.062/.078	.073/.109	.732	.010/.015	.060	8	.070/.125	.030	.625
12R	12	.7500	1.4375	1.315	.593	1.188	.062/.078	.073/.109	.913	.010/.015	.060	8	.070/.125	.030	.750
13R	13	.8125	1.5625	1.440	.650	1.282	.062/.078	.073/.109	.984	.010/.015	.060	8	.070/.125	.030	.812
14R	14	.8750	1.6562	1.534	.703	1.376	.062/.078	.073/.109	1.054	.010/.015	.060	8	.070/.125	.030	.875
16R	16	1.0000	1.8750	1.753	.797	1.563	.078/.093	.082/.109	1.193	.010/.015	.060	8	.090/.125	.030	1.000
18R	18	1.1250	2.1250	2.003	.900	1.751	.078/.093	.082/.109	1.334	.010/.015	.060	8	.090/.125	.030	1.125
20R	20	1.2500	2.3125	2.190	1.000	1.938	.078/.093	.082/.109	1.473	.010/.015	.060	8	.090/.125	.030	1.250
22R	22	1.3750	2.5625	2.440	1.100	2.157	.078/.093	.082/.109	1.654	.010/.015	.060	8	.090/.125	.030	1.375
24R	24	1.5000	2.8125	2.690	1.200	2.345	.078/.093	.082/.109	1.794	.010/.015	.060	8	.090/.125	.030	1.500

TABLE II. STRENGTHS

DASH NO.		RADIAL STATIC LIMIT LOAD LB	RADIAL STATIC LIMIT LOAD LB	PEAK RADIAL LOAD MODE I LB.	PEAK RADIAL LOAD MODE II LB.
4	4R	6330	1930	2570	5000
5	5R	8460	2450	3520	6300
6	6R	11400	3090	4570	8200
7	7R	14800	3740	5750	9900
8	8R	20400	4860	7500	12650
9	9R	26700	6100	9500	15300
10	10R	33100	8080	11750	19300
12	12R	50000	11440	16900	28200
13	13R	59000	13800	19800	33400
14	14R	70300	16160	23000	38700
16	16R	77700	20850	30000	49800
18	18R	121500	26740	38000	63000
20	20R	152000	33065	46900	77500
22	22R	186000	40120	56900	95000
24	24R	224000	47820	67500	112500

PREPARING ACTIVITY: NAVY - AS
CUSTODIANS: ARMY- AV NAVY-
AIR FORCE-11 OLA-
REVIEW: OLA-IS, AIR FORCE-99, ARMY-AR, MI
PROJECT NUMBER: 3120-0744-01

MILITARY SPECIFICATION SHEET

TITLE
BEARING, PLAIN, SELF-ALIGNING,
BE CU BALL, CRES RACE,
(WITH STACKING GROOVE) -65°F TO +350°F

SPECIFICATION SHEET NUMBER
MIL-B-81936/1 REV B
5 DEC 94

SUPERSEDING
MIL-B-81936/1A 22 NOV 93

AMSC - N/A FSC 3120

PAGE 2 OF 4

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION: MIL-B-81836

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

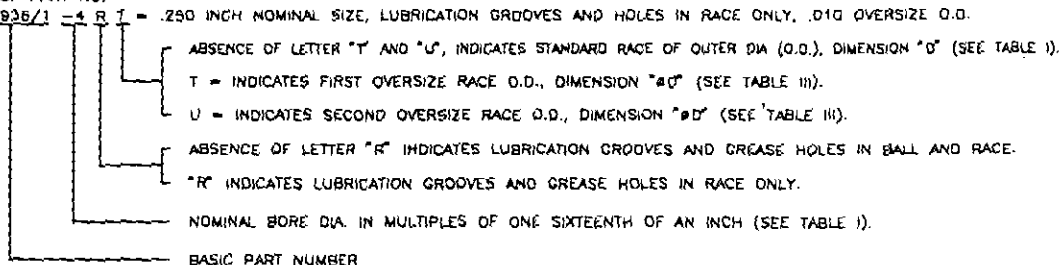
FORM APPROVED
OMB NO. 0704-0188

NOTES:

1. DASH NUMBER DESIGNATES NOMINAL BORE DIA IN SIXTEENTHS OF AN INCH.

2. EXAMPLE OF PART NO.

MB1936/1 -4 R T = .250 INCH NOMINAL SIZE, LUBRICATION GROOVES AND HOLES IN RACE ONLY, .010 OVERSIZE O.D.



3. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.

4. REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS DODISS SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

PREPARING ACTIVITY: NAVY - AS
CUSTODIANS: ARMY-AV NAVY-
AIR FORCE-11 DLA-
REVIEW: DLA-AS, AIR FORCE-99, ARMY-AR, MI
PROJECT NUMBER: 3120-0744-01

MILITARY SPECIFICATION SHEET

TITLE
BEARING, PLAIN, SELF-ALIGNING,
BE CU BALL, CRES RACE,
(WITH STACKING GROOVE) -65°F TO +350°F

SPECIFICATION SHEET NUMBER
MIL-B-81936/1 REV B
5 DEC 84
SUPERSEDING
MIL-B-81936/1 22 NOV 83
AMSC - N/A FSC 3120

PAGE 4 OF 4