AS81934/2

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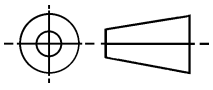
THIRD ANGLE PROJECTION



ISSUED 1998-04

PREPARED BY AIRFRAME CONTROL BEARINGS GROUP

SAE The Engineering Society For Advancing Mobility Land Sea Air and Space®
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

BEARING, SLEEVE, FLANGED,
SELF-LUBRICATING, 325° F

AS81934/2
SHEET 1 OF 5

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: SAE AS81934.

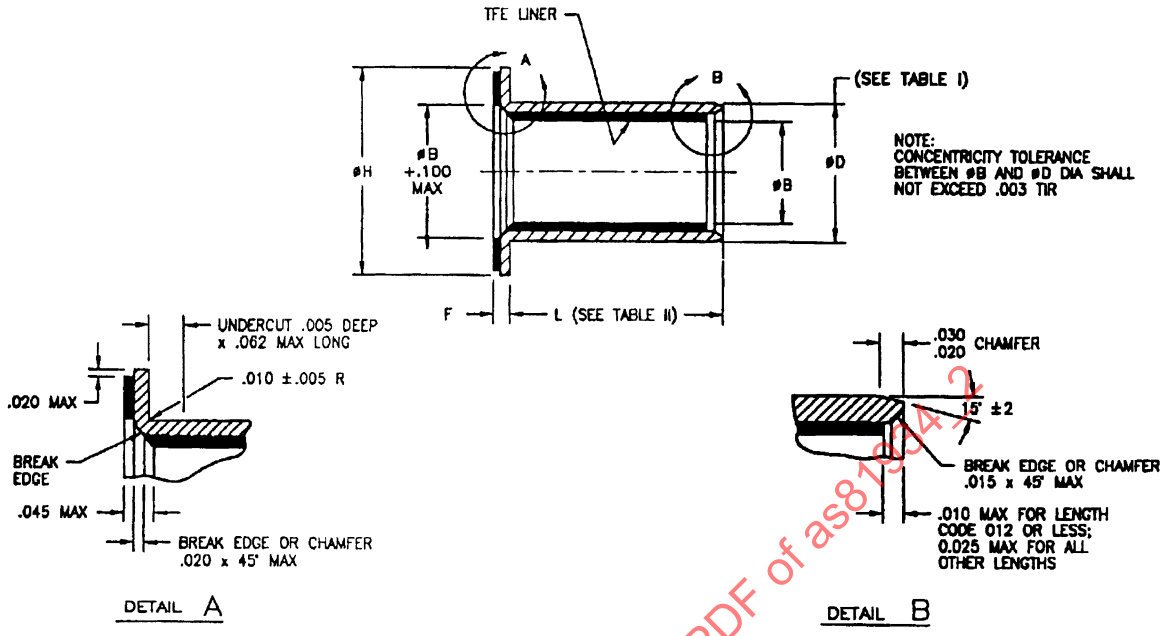


TABLE I. DIMENSIONS AND WEIGHTS

DASH NO.	NOMINAL SIZE (REF)	øB (BORE DIA) +.0000 −.0010	øD 1/	F +.000 −.005	øH +.000 −.020	SLEEVE WEIGHT LB/IN (REF) L = 1.000		FLANGE WEIGHT LB/IN (REF)	
						AL	CRES	AL	CRES
−04	.2500	.2515	.3760	.0625	.750	.006	.016	.002	.006
−05	.3125	.3140	.4386	.0625	.812	.007	.019	.003	.007
−06	.3750	.3765	.5012	.0625	.875	.008	.022	.003	.007
−07	.4375	.4390	.5638	.0625	.937	.009	.025	.003	.008
2/ −07A					.745				
−08	.5000	.5015	.6265	.0625	1.000	.011	.028	.003	.009
−09	.5625	.5640	.6892	.0625	1.125	.012	.031	.004	.011
−10	.6250	.6265	.8142	.0625	1.250	.021	.056	.005	.014
−11	.6875	.6890	.8767	.0625	1.375	.022	.060	.006	.016
−12	.7500	.7515	.9393	.0625	1.500	.024	.065	.007	.020
−14	.8750	.8765	1.0645	.0625	1.625	.028	.075	.008	.022
−16	1.0000	1.0015	1.1898	.0625	1.750	.031	.084	.009	.024
−18	1.1250	1.1265	1.3148	.0937	1.875	.035	.094	.015	.041
−20	1.2500	1.2515	1.4398	.0937	2.000	.038	.103	.016	.045
−22	1.3750	1.3765	1.5648	.0937	2.125	.041	.113	.017	.048
−24	1.5000	1.5015	1.7523	.0937	2.250	.062	.171	.018	.051
−26	1.6250	1.6265	1.8773	.0937	2.375	.067	.183	.020	.055
−28	1.7500	1.7515	2.0023	.0937	2.500	.071	.196	.021	.058
−32	2.0000	2.0015	2.2523	.0937	2.750	.081	.222	.023	.065

1/ øD TOLERANCE: ALUMINUM ±.0005; CORROSION RESISTANT STEEL +.0000, −.0005

EXAMPLE OF WEIGHT CALCULATION; M81934/2-16A008:
SLEEVE WEIGHT: (0.031 LB/IN) x .250 INCH = 0.008 LB
FLANGE WEIGHT: = 0.009 LB
TOTAL WEIGHT: = 0.017 LB

2/ INACTIVE FOR NEW DESIGN AFTER 1 AUGUST 1981. USE M81934/2-07.

TABLE II. SLEEVE BEARING LENGTH

DASH NO.	NOMINAL SIZE	LENGTH L +.000 −.010														
		.156	.187	.218	.250	.281	.312	.343	.375	.437	.500	.562	.625	.687	.750	.875
−04	.2500	005	006	007	008	009	010	011	012	014						
−05	.3125	005	006	007	008	009	010	011	012	014	016	018				
−06	.3750	005	006	007	008	009	010	011	012	014	016	018	020	022		
−07	.4375	005	006	007	008	009	010	011	012	014	016	018	020	022	024	028
−08	.5000	005	006	007	008	009	010	011	012	014	016	018	020	022	024	028
−09	.5625	005	006	007	008	009	010	011	012	014	016	018	020	022	024	028
−10	.6250	005	006	007	008	009	010	011	012	014	016	018	020	022	024	028
−11	.6875				008	009	010	011	012	014	016	018	020	022	024	028
−12	.7500				008	009	010	011	012	014	016	018	020	022	024	028
−14	.8750				008	009	010	011	012	014	016	018	020	022	024	028
−16	1.0000				008	009	010	011	012	014	016	018	020	022	024	028
−18	1.1250						010	011	012	014	016	018	020	022	024	028
−20	1.2500								012	014	016	018	020	022	024	028
−22	1.3750								012	014	016	018	020	022	024	028
−24	1.5000								012	014	016	018	020	022	024	028
−26	1.6250										016	018	020	022	024	028
−28	1.7500										016	018	020	022	024	028
−32	2.0000										016	018	020	022	024	028

TABLE II. SLEEVE BEARING LENGTH (CONTINUED)

DASH NO.	NOMINAL SIZE	LENGTH L +.000 −.010														
		1.000	1.125	1.250	1.375	1.500	1.625	1.750	1.875	2.000	2.125	2.250	2.375	2.500	2.750	3.000
−04	.2500															
−05	.3125															
−06	.3750															
−07	.4375															
−08	.5000															
−09	.5625	032	036													
−10	.6250	032	036	040	044											
−11	.6875	032	036	040	044	048	052									
−12	.7500	032	036	040	044	048	052									
−14	.8750	032	036	040	044	048	052									
−16	1.0000	032	036	040	044	048	052	056	060							
−18	1.1250	032	036	040	044	048	052	056	060							
−20	1.2500	032	036	040	044	048	052	056	060	064	068					
−22	1.3750	032	036	040	044	048	052	056	060	064	068					
−24	1.5000	032	036	040	044	048	052	056	060	064	068	072	076	080	088	
−26	1.6250	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096
−28	1.7500	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096
−32	2.0000	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096

TABLE III. OVERSIZE BEARING DIMENSIONS 2/

RESTRICTED USAGE FOR REPAIR WORK ONLY

.010 AND .020 OVERSIZE OUTSIDE DIAMETER FOR
REPLACEMENT OF BEARINGS SHOWN ON SHEET 2

DASH NO.	NOMINAL SIZE	1st OVERSIZE (.010) ØD 1/
-04	.2500	.3860
-05	.3125	.4486
-06	.3750	.5112
-07	.4375	.5738
-08	.5000	.6365
-09	.5625	.6992
-10	.6250	.8242
-11	.6875	.8867
-12	.7500	.9493
-14	.8750	1.0745
-16	1.0000	1.1998
-18	1.1250	1.3248
-20	1.2500	1.4498
-22	1.3750	1.5748
-24	1.5000	1.7623
-26	1.6250	1.8873
-28	1.7500	2.0123
-32	2.0000	2.2623

DASH NO.	NOMINAL SIZE	2nd OVERSIZE (.020) ØD 1/
-04	.2500	.3960
-05	.3125	.4586
-06	.3750	.5212
-07	.4375	.5838
-08	.5000	.6465
-09	.5625	.7092
-10	.6250	.8342
-11	.6875	.8967
-12	.7500	.9593
-14	.8750	1.0845
-16	1.0000	1.2098
-18	1.1250	1.3348
-20	1.2500	1.4598
-22	1.3750	1.5848
-24	1.5000	1.7723
-26	1.6250	1.8973
-28	1.7500	2.0223
-32	2.0000	2.2723

1/ ØD TOLERANCE ALUMINUM ±.0005; CORROSION RESISTANT STEEL +.0000, -.0005.

2/ BEFORE INITIATING A REPAIR PROCEDURE TO USE AN OVERSIZE BEARING, APPROVAL FOR MODIFYING AND REIDENTIFYING THE BEARING HOUSING MUST BE OBTAINED FROM THE COGNIZANT ENGINEERING AUTHORITY.

REQUIREMENTS:

1. MATERIAL: BEARING: "A" INDICATES ALUMINUM ALLOY QQ-A-200/3 OR QQ-A-225/6 (2024T851 OR 2024T8511). NOTE: THE MANUFACTURER MAY SUBSTITUTE ALLOY 2024T351 OR 2024T3511 FOR 2024T851 OR 2024T8511, RESPECTIVELY, PROVIDED THE PROCESSING PROCEDURES EMPLOYED IN MANUFACTURING THE BEARING RESULT IN A CONVERSION OF ALLOY TO 2024T851 OR 2024T8511.

   "C" INDICATES CORROSION RESISTANT STEEL, AMS-5643 (17-4PH) CONDITION H1150 PER MIL-H-6875.

   LINER: SEE PROCUREMENT SPECIFICATION

2. SURFACE TEXTURE: SMOOTH MACHINE FINISH 63 MICRO-INCH Ra ON O.D.; 125 MICRO-INCH Ra ON ALL OTHER METALLIC SURFACES PER ASME-B46.1, UNLESS OTHERWISE SPECIFIED.

3. BREAK SHARP EDGES AND CORNERS AND REMOVE ALL BURRS AND SLIVERS.

4. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE, DECIMALS ±.010 AND ANGLES ±0.5°.

5. MARKING: FOR DASH NO. 08 AND LARGER THE MILITARY PART NUMBER SHALL BE MARKED ON THE PART.

6. INTERCHANGEABILITY RELATIONSHIP: USE ONLY ASSIGNED PART NUMBERS FOR LENGTH AS LISTED IN LENGTH COLUMN OF TABLE II.