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AS81934™/2

RATIONALE

FEDERAL SUPPLY CLASS
3120

THIS DOCUMENT HAS BEEN UPDATED TO INCORPORATE A TYPE "A" PART NUMBER DESIGNATION FOR LINER SYSTEMS WITH THE SAME WEAR LIMITS BUT FOUR TIMES THE LIFE (100000 CYCLES) COMPARED TO STANDARD (25000 CYCLES) LINER SYSTEMS. TABULATED LOAD RATINGS. UPDATED FIGURES. CLARIFIED RESTRICTIONS ON USE OF -.07 SIZE. CLARIFIED RUNOUT REQUIREMENT BETWEEN ØB AND ØD. UPDATED PLATING REQUIREMENTS.

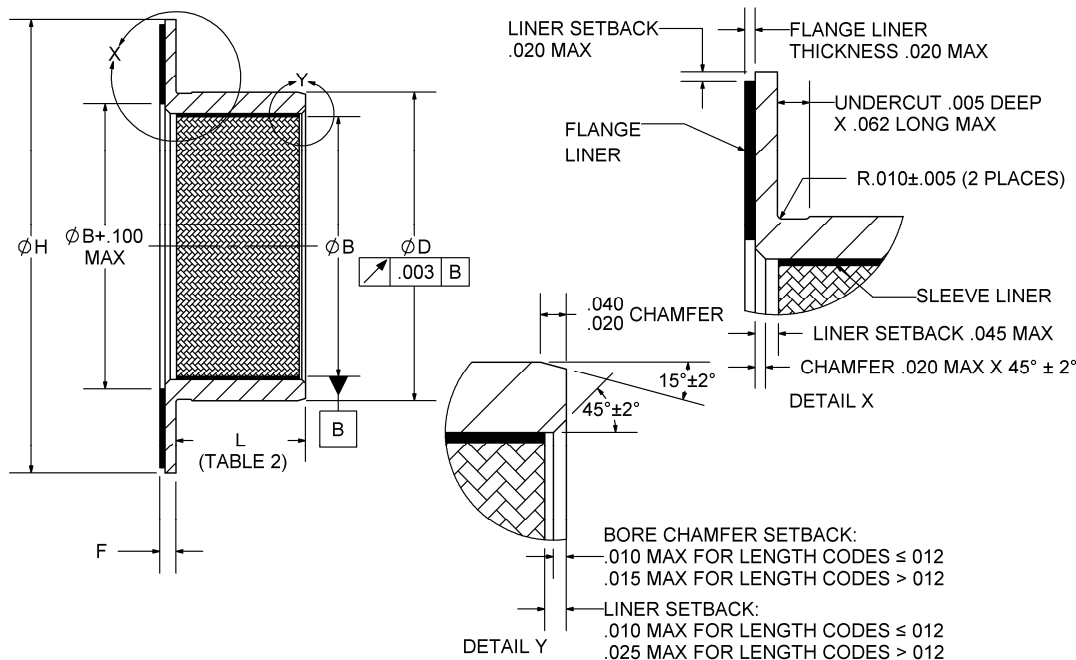


FIGURE 1 - PART CONFIGURATION

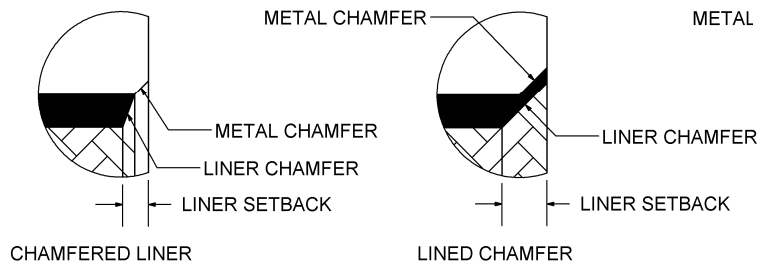


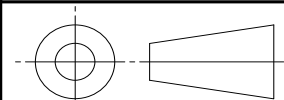
FIGURE 2 - EXAMPLES OF OTHER ACCEPTABLE LINER TRIMMING METHODS

LINER TRIMMING NOTES:

- 1/ SLEEVE AND FLANGE LINER EDGES MAY BE TRIMMED STRAIGHT (FIGURE 1) OR CHAMFERED (FIGURE 2).
- 2/ LINERS MAY BE RECESSED UP TO THE MAX ALLOWED SETBACK DISTANCES (FIGURE 1) OR ADHERED TO THE METAL CHAMFERS (FIGURE 2, LINED CHAMFER).
- 3/ LINERS OR LOOSE LINER MATERIAL SHALL NOT EXTEND INTO THE METAL CHAMFER AREA UNLESS THAT LINER MATERIAL IS ADHERED TO THE METAL CHAMFER.

For more information on this standard, visit
<https://www.sae.org/standards/content/AS81934/2B>

THIRD ANGLE PROJECTION



CUSTODIAN: SAE AIRFRAME CONTROL BEARINGS GROUP

PROCUREMENT SPECIFICATION: AS81934



AEROSPACE STANDARD

(R) BEARING, SLEEVE,
FLANGED, SELF-LUBRICATING,
-65 °F TO 325 °F

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TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC PART NO. 3/	NOMINAL SIZE (REF)	ØB (BORE DIA) +.0000 -.0010	ØD 1/	F +.000 -.005	ØH +.000 -.020	SLEEVE WEIGHT PER LENGTH LB/IN (REF) 4/		FLANGE WEIGHT LB (REF) 4/	
						AL	CRES	AL	CRES
M81934/2-04	.2500	.2515	.3760	.0625	.750	.006	.016	.002	.006
M81934/2-05	.3125	.3140	.4386	.0625	.812	.007	.019	.003	.007
M81934/2-06	.3750	.3765	.5012	.0625	.875	.008	.022	.003	.007
M81934/2-07	.4375	.4390	.5638	.0625	.937	.009	.025	.003	.008
M81934/2-07A 2/					.745			.002	.004
M81934/2-08	.5000	.5015	.6265	.0625	1.000	.011	.028	.003	.009
M81934/2-09	.5625	.5640	.6892	.0625	1.125	.012	.031	.004	.011
M81934/2-10	.6250	.6265	.8142	.0625	1.250	.021	.056	.005	.014
M81934/2-11	.6875	.6890	.8767	.0625	1.375	.022	.060	.006	.016
M81934/2-12	.7500	.7515	.9393	.0625	1.500	.024	.065	.007	.020
M81934/2-14	.8750	.8765	1.0645	.0625	1.625	.028	.075	.008	.022
M81934/2-16	1.0000	1.0015	1.1898	.0625	1.750	.031	.084	.009	.024
M81934/2-18	1.1250	1.1265	1.3148	.0937	1.875	.035	.094	.015	.041
M81934/2-20	1.2500	1.2515	1.4398	.0937	2.000	.038	.103	.016	.045
M81934/2-22	1.3750	1.3765	1.5648	.0937	2.125	.041	.113	.017	.048
M81934/2-24	1.5000	1.5015	1.7523	.0937	2.250	.062	.171	.018	.051
M81934/2-26	1.6250	1.6265	1.8773	.0937	2.375	.067	.183	.020	.055
M81934/2-28	1.7500	1.7515	2.0023	.0937	2.500	.071	.196	.021	.058
M81934/2-32	2.0000	2.0015	2.2523	.0937	2.750	.081	.222	.023	.065

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

2/ FOR U.S. DEPARTMENT OF DEFENSE CONTRACTS, M81934/2-07A SHALL ONLY BE USED FOR EXISTING DESIGNS (DESIGNS MADE PRIOR TO 1 AUGUST 1981).

3/ FOR TYPE A BEARINGS, THE CORRESPONDING P/N WILL HAVE AN "A" DESIGNATION AFTER THE BASIC P/N (E.G., M81934/2A-08C016).

4/ EXAMPLE OF WEIGHT CALCULATION FOR M81934/2-16A016: TOTAL WEIGHT = SLEEVE WEIGHT + FLANGE WEIGHT = (.031 LB/IN) X .500 INCH + .009 POUND = .025 POUND.



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TABLE 2 - BEARING SLEEVE LENGTH CODES

BORE SIZE CODE	NOMINAL SIZE	SLEEVE LENGTH L +.000/- .010									
		.156	.187	.218	.250	.281	.312	.343	.375	.437	.500
04	.2500	005	006	007	008	009	010	011	012	014	
05	.3125	005	006	007	008	009	010	011	012	014	016
06	.3750	005	006	007	008	009	010	011	012	014	016
07 OR 07A	.4375	005	006	007	008	009	010	011	012	014	016
08	.5000	005	006	007	008	009	010	011	012	014	016
09	.5625	005	006	007	008	009	010	011	012	014	016
10	.6250	005	006	007	008	009	010	011	012	014	016
11	.6875				008	009	010	011	012	014	016
12	.7500				008	009	010	011	012	014	016
14	.8750				008	009	010	011	012	014	016
16	1.0000				008	009	010	011	012	014	016
18	1.1250						010	011	012	014	016
20	1.2500								012	014	016
22	1.3750								012	014	016
24	1.5000								012	014	016
26	1.6250										016
28	1.7500										016
32	2.0000										016

BORE SIZE CODE	NOMINAL SIZE	SLEEVE LENGTH L +.000/- .010									
		.562	.625	.687	.750	.875	1.000	1.125	1.250	1.375	1.500
04	.2500										
05	.3125	018									
06	.3750	018	020	022							
07 OR 07A	.4375	018	020	022	024	028					
08	.5000	018	020	022	024	028					
09	.5625	018	020	022	024	028	032	036			
10	.6250	018	020	022	024	028	032	036	040	044	
11	.6875	018	020	022	024	028	032	036	040	044	048
12	.7500	018	020	022	024	028	032	036	040	044	048
14	.8750	018	020	022	024	028	032	036	040	044	048
16	1.0000	018	020	022	024	028	032	036	040	044	048
18	1.1250	018	020	022	024	028	032	036	040	044	048
20	1.2500	018	020	022	024	028	032	036	040	044	048
22	1.3750	018	020	022	024	028	032	036	040	044	048
24	1.5000	018	020	022	024	028	032	036	040	044	048
26	1.6250	018	020	022	024	028	032	036	040	044	048
28	1.7500	018	020	022	024	028	032	036	040	044	048
32	2.0000	018	020	022	024	028	032	036	040	044	048

BORE SIZE CODE	NOMINAL SIZE	SLEEVE LENGTH L +.000/- .010									
		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 OR 07A	.4375										
08	.5000										
09	.5625										
10	.6250										
11	.6875	052									
12	.7500	052									
14	.8750	052									
16	1.0000	052	056	060							
18	1.1250	052	056	060							
20	1.2500	052	056	060	064	068					
22	1.3750	052	056	060	064	068					
24	1.5000	052	056	060	064	068	072	076	080	088	
26	1.6250	052	056	060	064	068	072	076	080	088	096
28	1.7500	052	056	060	064	068	072	076	080	088	096
32	2.0000	052	056	060	064	068	072	076	080	088	096



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