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REV. C
AS14238

FEDERAL SUPPLY CLASS
3120

RATIONALE

THE REASON FOR UPDATING THIS SPECIFICATION WAS TO CLEAN UP THE GRAPHICS, CORRECT MINOR ERRORS FOUND IN TABLE 1 AND TO BRING THE ZINC NICKEL FINISH CALLOUT IN LINE WITH EXISTING AS STANDARDS. NO CHANGES IN THIS REVISION AFFECT PARTS THAT HAVE BEEN MANUFACTURED ON PREVIOUS REVISIONS.

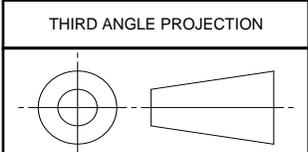
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ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL) MAY CONTINUE TO BE MANDATORY FOR DOD CONTRACTS. REQUIREMENTS RELATING TO QPLS HAVE NOT BEEN ADOPTED BY THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

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CUSTODIAN: AIRFRAME CONTROL BEARINGS GROUP		PROCUREMENT SPECIFICATION: NONE	
	AEROSPACE STANDARD		AS14238 SHEET 1 OF 4
	(R) BUSHING, SLEEVE FLANGED, PRESS FIT, REAM TYPE		

ISSUED 1997-08 REVISED 2014-04

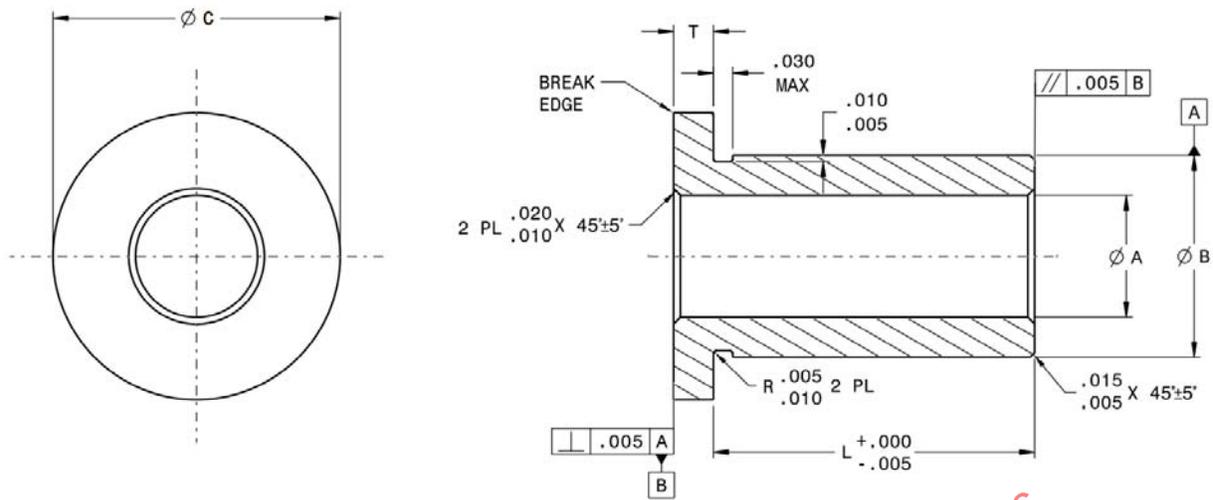


FIGURE 1

TABLE 1

SIZE DASH NO	NOM DIA	$\varnothing A$	$\varnothing B$	RECM'D HOUSING BORE	INTERFERENCE FIT (REF)	$\varnothing C$	T $\pm .002$	WEIGHT (REF) (LB)
-03	.1900	.184 .177	.3142 .3137	.3133 .3125	.0017 .0004	.447 .427	.062	$(.009 + .053L_{(MAX)}) \times D$
-04	.2500	.243 .235	.3767 .3762	.3758 .3750	.0017 .0004	.510 .490	.062	$(.010 + .069L_{(MAX)}) \times D$
-05	.3125	.307 .299	.4393 .4388	.4383 .4375	.0018 .0005	.572 .552	.062	$(.012 + .082L_{(MAX)}) \times D$
-06	.3750	.364 .356	.5020 .5013	.5008 .5000	.0020 .0005	.635 .615	.062	$(.014 + .099L_{(MAX)}) \times D$
-07	.4375	.428 .421	.5646 .5639	.5634 .5625	.0021 .0005	.697 .677	.062	$(.016 + .112L_{(MAX)}) \times D$
-08	.5000	.490 .483	.6272 .6264	.6259 .6250	.0022 .0006	.760 .740	.062	$(.017 + .126L_{(MAX)}) \times D$
-10	.6250	.615 .608	.8150 .8140	.8134 .8125	.0025 .0006	1.010 .990	.094	$(.049 + .232L_{(MAX)}) \times D$
-10A	.6250	.615 .608	.8150 .8140	.8134 .8125	.0025 .0006	1.010 .990	.062	$(.033 + .232L_{(MAX)}) \times D$
-12	.7500	.742 .732	.9400 .9390	.9384 .9375	.0025 .0006	1.135 1.115	.094	$(.057 + .274L_{(MAX)}) \times D$
-14	.8750	.867 .857	1.0651 1.0641	1.0635 1.0625	.0026 .0006	1.260 1.240	.094	$(.064 + .315L_{(MAX)}) \times D$
-16	1.0000	.992 .982	1.1901 1.1891	1.1885 1.1875	.0026 .0006	1.385 1.365	.094	$(.072 + .356L_{(MAX)}) \times D$
-18	1.1250	1.117 1.107	1.3151 1.3141	1.3135 1.3125	.0026 .0006	1.510 1.490	.125	$(.105 + .396L_{(MAX)}) \times D$
-20	1.2500	1.242 1.232	1.4401 1.4391	1.4385 1.4375	.0026 .0006	1.635 1.615	.125	$(.115 + .437L_{(MAX)}) \times D$



AEROSPACE STANDARD

(R) BUSHING, SLEEVE FLANGED, PRESS FIT, REAM TYPE

AS14238
SHEET 2 OF 4

REV. C

$$\text{WEIGHT}_{(\text{MAX})} = \pi/4 \times [(C_{\text{MAX}}^2 - A_{\text{MIN}}^2) \times T_{\text{MAX}} + (B_{\text{MAX}}^2 - A_{\text{MIN}}^2) \times L_{\text{MAX}}] \times \text{DENSITY}$$

TABLE 2

MATERIAL	DENSITY LB/IN ³ (REF)
4130 STEEL	.283
17-4 PH	.283
ALUMINUM NICKEL BRONZE	.276
COPPER BERYLLIUM	.298

MATERIAL: ALLOY STEEL: 4130 STEEL PER AMS-S-6758 OR AMS-T-6736
 CORROSION RESISTANT STEEL: 17-4 PH PER AMS5643, PASSIVATE PER AMS2700 OR
 ASTM A967 CITRIC 1, CITRIC 2 OR CITRIC 3
 ALUMINUM NICKEL BRONZE PER AMS4640
 BERYLLIUM COPPER PER AMS4534 OR ASTM B196, CONDITION TH04

HEAT TREAT: ALLOY STEEL: 125 000 TO 145 000 PSI UTS
 CORROSION RESISTANT STEEL: 135 000 TO 170 000 PSI UTS
 BERYLLIUM COPPER: 165 000 PSI UTS (MINIMUM)

FINISH: (P): CADMIUM PLATE OUTSIDE DIAMETER AND END SURFACES PER AMS-QQ-P-416 TYPE II, CLASS 2. FLASH PERMITTED
 IN BORE.
 (E): ZINC NICKEL PLATE OUTSIDE DIAMETER AND END SURFACES PER AMS2417 TYPE 2, GRADE B. FLASH PERMITTED
 IN BORE.
 (D): IVD ALUMINUM COATING PER MIL-DTL-83488 TYPE II, CLASS 3.

PART MARKING: BAG AND TAG WITH THE SUPPLIER'S NAME, TRADEMARK OR CODE NUMBER, BASIC PART NUMBER (LESS MS
 PREFIX), MATERIAL CODE AND SIZE CODE. PACKAGES SHALL BE MARKED WITH THE SUPPLIER'S NAME,
 TRADEMARK OR CODE NUMBER AND THE COMPLETE PART NUMBER FOR ALL BUSHING SIZES.



EXAMPLES: MS14238C06P037 = BUSHING, FLANGED, CORROSION RESISTANT STEEL, FOR .375 NOM. DIA., CADMIUM PLATED,
 .370 INCHES LONG
 MS14238B16-500 = BUSHING, FLANGED, COPPER BERYLLIUM, FOR 1.000 NOM. DIA., UNPLATED, 5.00 INCHES LONG

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.

	AEROSPACE STANDARD	AS14238 SHEET 3 OF 4	REV. C
	(R) BUSHING, SLEEVE FLANGED, PRESS FIT, REAM TYPE		