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AS14238

FEDERAL SUPPLY CLASS
3120

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AEROSPACE STANDARD

BUSHING, SLEEVE FLANGED, PRESS FIT, REAM TYPE

AS14238
SHEET 1 OF 4

REV.
B

ISSUED 1997-08 REVISED 2003-11 REAFFIRMED 2010-06

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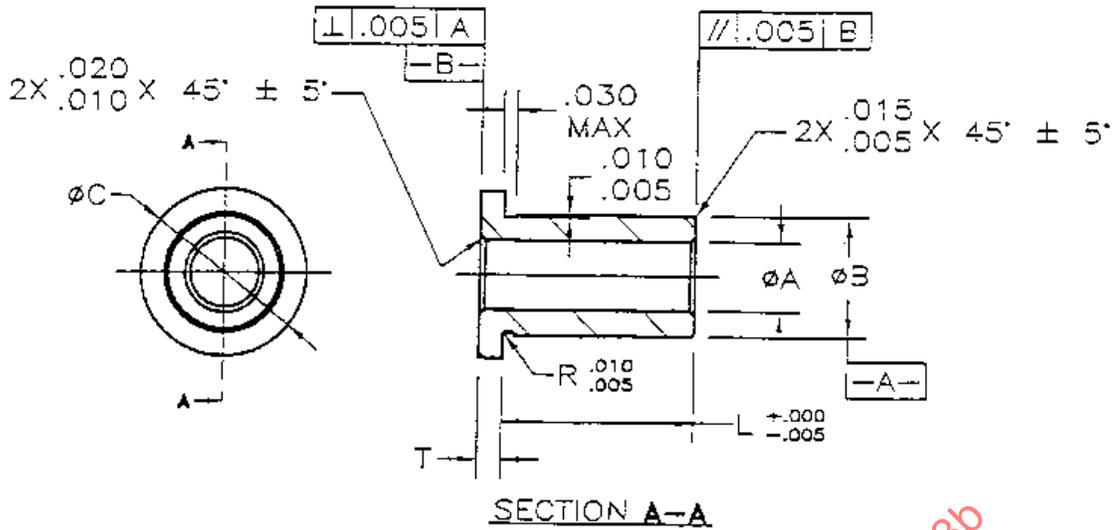


FIGURE 1

TABLE 1

SIZE DASH NO.	NOM. DIA.	ØA	ØB	RECM'D HOUSING BORE	INTERFERENCE FIT (REF.)	ØC	T 6.002	WEIGHT (REF.) (LBS.)
-03	.1900	.177 .184	.3142 .3137	.3133 .3125	.0017 .0004	.447 .427	.062	(.009 + .053L _(MAX)) X D
-04	.2500	.235 .243	.3767 .3762	.3758 .3750	.0017 .0004	.510 .490	.062	(.010 + .069L _(MAX)) X D
-05	.3125	.299 .307	.4393 .4388	.4383 .4375	.0018 .0005	.572 .552	.062	(.012 + .082L _(MAX)) X D
-06	.3750	.356 .364	.5020 .5013	.5008 .5000	.0020 .0005	.635 .615	.062	(.014 + .099L _(MAX)) X D
-07	.4375	.421 .428	.5646 .5639	.5634 .5625	.0021 .0005	.697 .677	.062	(.016 + .112L _(MAX)) X D
-08	.5000	.483 .490	.6272 .6264	.6259 .6250	.0022 .0006	.760 .740	.062	(.017 + .126L _(MAX)) X D
-10	.6250	.608 .615	.8150 .8140	.8134 .8125	.0025 .0006	1.010 .990	.094	(.049 + .232L _(MAX)) X D
-10A	.6250	.608 .615	.8150 .8140	.8134 .8125	.0025 .0006	1.010 .990	.062	(.033 + .232L _(MAX)) X D
-12	.7500	.732 .742	.9400 .9390	.9384 .9375	.0025 .0006	1.135 1.115	.094	(.057 + .274L _(MAX)) X D
-14	.8750	.857 .867	1.0651 1.0641	1.0635 1.0625	.0026 .0006	1.260 1.240	.094	(.064 + .315L _(MAX)) X D
-16	1.0000	.982 .992	1.1901 1.1891	1.1885 1.1875	.0026 .0006	1.385 1.365	.094	(.072 + .356L _(MAX)) X D
-18	1.1250	1.107 1.117	1.3151 1.3141	1.3135 1.3125	.0026 .0006	1.510 1.490	.125	(.105 + .396L _(MAX)) X D
-20	1.2500	1.232 1.242	1.4401 1.4391	1.4385 1.4375	.0026 .0006	1.635 1.615	.125	(.115 + .437L _(MAX)) X D

$$\text{WEIGHT}_{(\text{MAX})} = \pi/4 \times [((\text{FLANGE O.D.}_{(\text{MAX})})^2 - (\text{I.D.}_{(\text{MIN})})^2) \times T_{(\text{MAX})}] + [((\text{O.D.}_{(\text{MAX})})^2 - (\text{I.D.}_{(\text{MIN})})^2) \times L_{(\text{MAX})}] \times D$$

TABLE 2

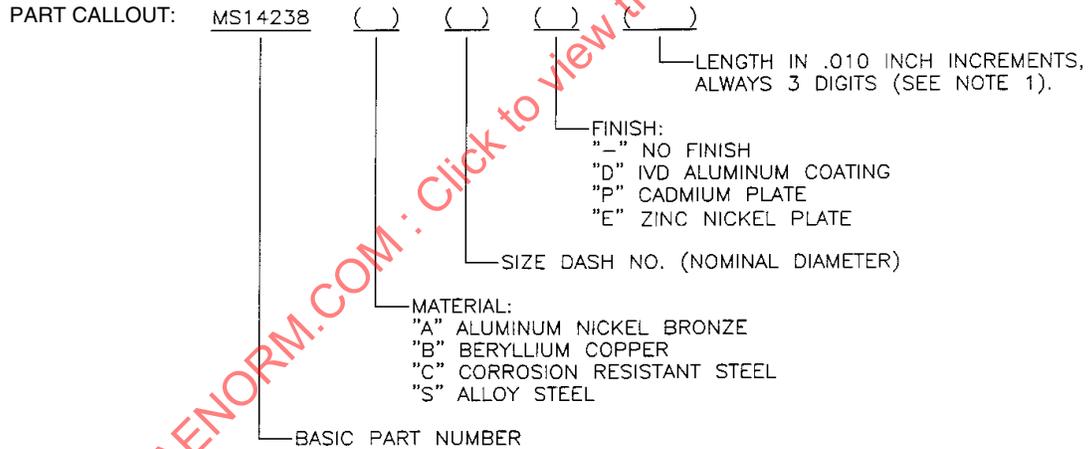
MATERIAL	DENSITY (REF)
4130 STEEL	.283
17-4 PH	.283
ALUMINUM NICKEL BRONZE	.276
BERYLLIUM COPPER	.298

MATERIAL: ALLOY STEEL: 4130 STEEL PER AMS-S-6758 OR AMS-T-6736
 CORROSION RESISTANT STEEL: 17-4 PH PER AMS 5643, PASSIVATE PER AMS-QQ-P-35 OR ASTM A 967 CITRIC 1, CITRIC 2 OR CITRIC 3
 ALUMINUM NICKEL BRONZE PER AMS 4640
 BERYLLIUM COPPER PER AMS 4534 OR ASTM B 196, CONDITION TH04

HEAT TREAT: ALLOY STEEL: 125,000 - 145,000 PSI UTS
 CORROSION RESISTANT STEEL: 135,000 - 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 ALL OVER (I.D. OPTIONAL) PER AMS 2417 TYPE 2.
 (D): IVD ALUMINUM COATING PER MIL-C-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, BERYLLIUM COPPER, 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.