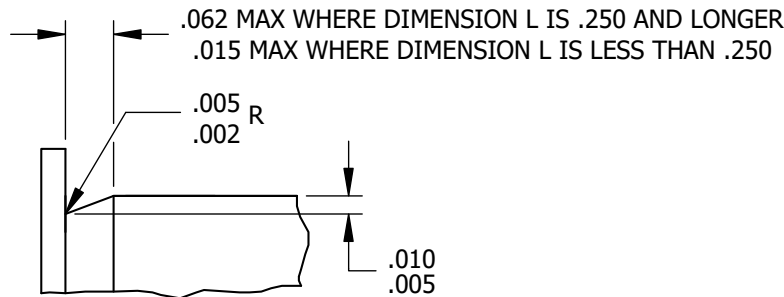
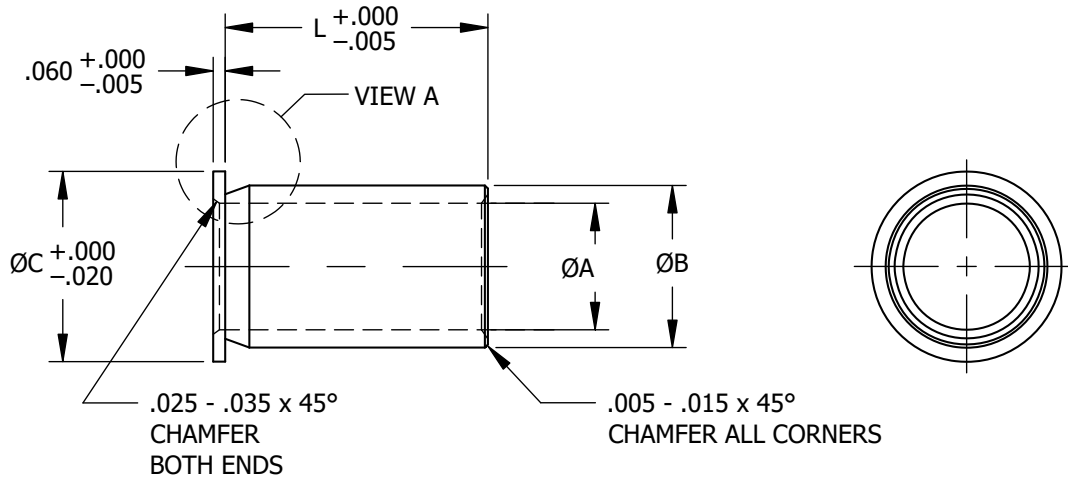
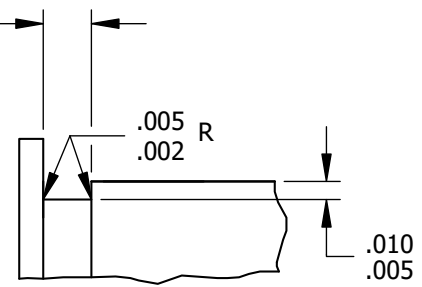


FED. SUPPLY CLASS

5365



VIEW A



ALTERNATE
UNDERCUT

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1000 WILSON BLVD.
ARLINGTON, VA 22209

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME
PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST
REVISION DATE.

REVISION DATE: JANUARY 31, 2017

ISSUE DATE: OCTOBER 1957

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 11
PROCUREMENT SPECIFICATION NONE	TITLE BUSHING, FLANGED, PRESS FIT, UNDERSIZE INSIDE DIAMETER	CLASSIFICATION PART STANDARD NAS538 SHEET 1 OF 4

TABLE I – DIMENSIONS

SIZE DASH NO.	NOM DIA FOR REAM HOLE	DIMENSION			REFERENCE DATA			
		ØA	ØB	ØC	WEIGHT IN LBS		WT = F + (L x K)	
					STEEL		ALUMINUM	BRONZE
					FLANGE	SHANK	FLANGE	SHANK
					F	K	F	K
3	.1900	.1790 $\begin{smallmatrix} +.0050 \\ -.0000 \end{smallmatrix}$	.3136 $\begin{smallmatrix} +.0000 \\ -.0005 \end{smallmatrix}$	.447	.0022	.0138	.0020	.0136
4	.2500	.2380 $\begin{smallmatrix} +.0050 \\ -.0000 \end{smallmatrix}$	.3761 $\begin{smallmatrix} +.0000 \\ -.0005 \end{smallmatrix}$	.510	.0026	.0176	.0026	.0174
5	.3125	.3010 $\begin{smallmatrix} +.0050 \\ -.0000 \end{smallmatrix}$	.4386 $\begin{smallmatrix} +.0000 \\ -.0005 \end{smallmatrix}$	.572	.0030	.0210	.0030	.0208
6	.3750	.3590 $\begin{smallmatrix} +.0070 \\ -.0000 \end{smallmatrix}$	.5013 $\begin{smallmatrix} +.0000 \\ -.0007 \end{smallmatrix}$	.635	.0034	.0246	.0034	.0244
7	.4375	.4220 $\begin{smallmatrix} +.0070 \\ -.0000 \end{smallmatrix}$	.5638 $\begin{smallmatrix} +.0000 \\ -.0007 \end{smallmatrix}$	.697	.0038	.0282	.0038	.0278
8	.5000	.4840 $\begin{smallmatrix} +.0070 \\ -.0000 \end{smallmatrix}$	.6265 $\begin{smallmatrix} +.0000 \\ -.0008 \end{smallmatrix}$	.760	.0042	.0318	.0042	.0314
9	.5625	.5460 $\begin{smallmatrix} +.0070 \\ -.0000 \end{smallmatrix}$	.6892 $\begin{smallmatrix} +.0000 \\ -.0010 \end{smallmatrix}$	.822	.0048	.0354	.0046	.0348
10	.6250	.6090 $\begin{smallmatrix} +.0070 \\ -.0000 \end{smallmatrix}$	.8142 $\begin{smallmatrix} +.0000 \\ -.0010 \end{smallmatrix}$	1.010	.0084	.0606	.0082	.0596
11	.6875	.6710 $\begin{smallmatrix} +.0070 \\ -.0000 \end{smallmatrix}$	.8767 $\begin{smallmatrix} +.0000 \\ -.0010 \end{smallmatrix}$	1.072	.0090	.0660	.0090	.0650
12	.7500	.7340 $\begin{smallmatrix} +.0070 \\ -.0000 \end{smallmatrix}$	.9393 $\begin{smallmatrix} +.0000 \\ -.0010 \end{smallmatrix}$	1.135	.0096	.0712	.0096	.0702
14	.8750	.8590 $\begin{smallmatrix} +.0070 \\ -.0000 \end{smallmatrix}$	1.0648 $\begin{smallmatrix} +.0000 \\ -.0010 \end{smallmatrix}$	1.260	.0110	.0820	.0108	.0810
16	1.0000	.9840 $\begin{smallmatrix} +.0070 \\ -.0000 \end{smallmatrix}$	1.1898 $\begin{smallmatrix} +.0000 \\ -.0010 \end{smallmatrix}$	1.385	.0122	.0926	.0120	.0914
18	1.1250	1.0940 $\begin{smallmatrix} +.0120 \\ -.0000 \end{smallmatrix}$	1.3148 $\begin{smallmatrix} +.0000 \\ -.0010 \end{smallmatrix}$	1.510	.0136	.1032	.0134	.1018
20	1.2500	1.2190 $\begin{smallmatrix} +.0120 \\ -.0000 \end{smallmatrix}$	1.4399 $\begin{smallmatrix} +.0000 \\ -.0010 \end{smallmatrix}$	1.635	.0149	.1138	.0146	.1122

MATERIAL:

ALLOY STEEL – 4130 (UNS G41300) PER ~~MIL-S-6758~~ AMS-S-6758 OR AMS6346, OR 8630 (UNS G86300) PER ~~MIL-S-6050~~ AMS6280 OR 4130 SEAMLESS ALLOY STEEL TUBING PER ~~MIL-T-6736~~ AMS-T-6736. WHEN 4130 ALLOY STEEL PER AMS6346 OR AMS-S-6758, CONDITION F-4 IS USED, HEAT TREATMENT IS NOT REQUIRED AND THE HARDNESS SHALL BE VERIFIED IN ACCORDANCE WITH AMS2759.

CORROSION RESISTANT STEEL (CRES) 17-4 PH (UNS S17400) PER AMS5643.

ALUMINUM BRONZE – ALLOY 642 (UNS C64200) PER ASTM B 150/B 150M, CONDITION HR50 (TENSILE TEST, CERTIFICATION AND MILL TEST REPORTS REQUIRED) OR ALLOY 630 (UNS C63000) PER AMS4640.

HEAT TREATMENT:

ALLOY STEEL – HEAT TREAT PER AMS2759 TO 125,000 - 145,000 PSI.

CRES – PRECIPITATION HEAT TREAT PER AMS2759 TO H1025 CONDITION.

REVISION

11

NAS538
SHEET 2



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