

REV.
B

SAE AS9553

FEDERAL SUPPLY CLASS
5310

RATIONALE

THE FIGURE HAS BEEN REDRAWN TO MAKE READABLE AND BROUGHT UP TO DATE TO SHOW LATEST GEOMETRICAL TOLERANCE THINKING AND CORRECT THREAD CALLOUT, THE TABLE HAS BEEN CORRECTED, A TYPING ERROR ON MS9553-28 DIMENSION AB AND THE NOTES HAVE BEEN BROUGHT UP TO DATE.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9553, NOTICE 1. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

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

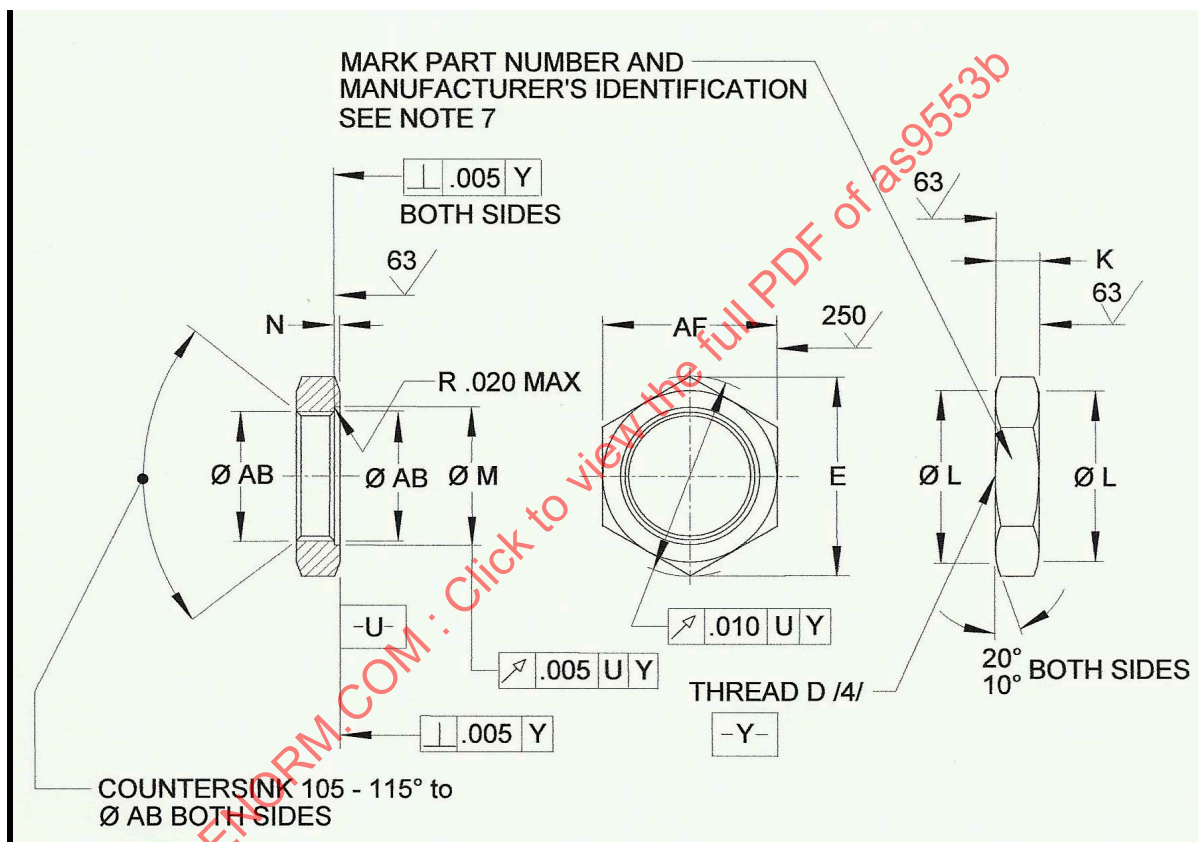
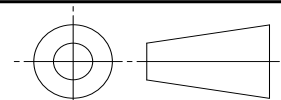


FIGURE 1 - NUT

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS9553B>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE

SAE Aerospace
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AEROSPACE STANDARD

NUT – HEXAGON, BOSS CONNECTION,
CRES – UNS S30400, 75 ksi

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TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NUMBER	NOM TUBE OD	D /4/ NOMINAL THREAD	AF	E MIN	AB	K
MS9553-02	.125	.3125-24UNJF-3B	.553- .564	.623	.312- .332	.240-.260
MS9553-03	.188	.3750-24UNJF-3B	.616- .627	.694	.375- .395	.240-.260
MS9553-04	.250	.4375-20UNJF-3B	.679- .690	.766	.438- .458	.271-.291
MS9553-05	.312	.5000-20UNJF-3B	.741- .752	.836	.500- .520	.271-.291
MS9553-06	.375	.5625-18UNJF-3B	.803- .814	.907	.562- .582	.287-.307
MS9553-07	.438	.6250-18UNJF-3B	.865- .877	.978	.625- .645	.287-.307
MS9553-08	.500	.7500-16UNJF-3B	.990-1.002	1.121	.750- .770	.334-.354
MS9553-09	.562	.8125-16UNJ-3B	1.052-1.064	1.191	.812- .832	.334-.354
MS9553-10	.625	.8750-14UNJF-3B	1.114-1.127	1.262	.875- .895	.381-.401
MS9553-11	.688	1.0000-12UNJF-3B	1.301-1.314	1.475	1.000-1.020	.428-.448
MS9553-12	.750	1.0625-12UNJ-3B	1.364-1.377	1.547	1.062-1.082	.428-.448
MS9553-14	.875	1.1875-12UNJ-3B	1.489-1.502	1.690	1.188-1.208	.428-.448
MS9553-16	1.000	1.3125-12UNJ-3B	1.614-1.627	1.833	1.312-1.332	.428-.448
MS9553-18	1.125	1.5000-12UNJ-3B	1.800-1.814	2.045	1.500-1.520	.428-.448
MS9553-20	1.250	1.6250-12UNJ-3B	1.926-1.940	2.189	1.625-1.645	.428-.448
MS9553-24	1.500	1.8750-12UNJ-3B	2.176-2.190	2.474	1.875-1.895	.428-.448
MS9553-28	1.750	2.2500-12UNJ-3B	2.549-2.564	2.899	2.250-2.270	.428-.448
MS9553-32	2.000	2.5000-12UNJ-3B	2.799-2.814	3.185	2.500-2.520	.428-.448

TABLE 1 - PART NUMBERS AND DIMENSIONS (CONTINUED)

PART NUMBER	NOM TUBE OD	L MIN	M	N	APPROX MASS lb/100
MS9553-02	.125	.552	.478- .488	.032-.042	1.31
MS9553-03	.188	.615	.541- .551	.032-.042	1.53
MS9553-04	.250	.678	.603- .613	.037-.047	2.01
MS9553-05	.312	.740	.665 .675	.037-.047	2.25
MS9553-06	.375	.802	.728- .738	.037-.047	2.66
MS9553-07	.438	.865	.790- .805	.037-.047	2.97
MS9553-08	.500	.990	.915- .925	.037-.047	4.16
MS9553-09	.562	1.052	.978- .988	.037-.047	4.44
MS9553-10	.625	1.115	1.040-1.050	.049-.059	5.55
MS9553-11	.688	1.302	1.205-1.215	.049-.059	8.92
MS9553-12	.750	1.365	1.290-1.300	.049-.059	9.43
MS9553-14	.875	1.490	1.412-1.422	.049-.059	10.60
MS9553-16	1.000	1.615	1.536-1.546	.049-.059	11.75
MS9553-18	1.125	1.802	1.724-1.734	.049-.059	13.55
MS9553-20	1.250	1.928	1.849-1.859	.049-.059	14.87
MS9553-24	1.500	2.178	2.099-2.109	.049-.059	17.47
MS9553-28	1.750	2.552	2.473-2.483	.049-.059	21.58
MS9553-32	2.000	2.802	2.723-2.733	.049-.059	24.53