FEDERAL SUPPLY CLASS
5310

RATIONALE

DOCUMENT FULLY UPDATED TO INCLUDE LATEST THREAD SPEC., TABLE RE-TYPED, AND NOTES UPDATED.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9099C. 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 THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

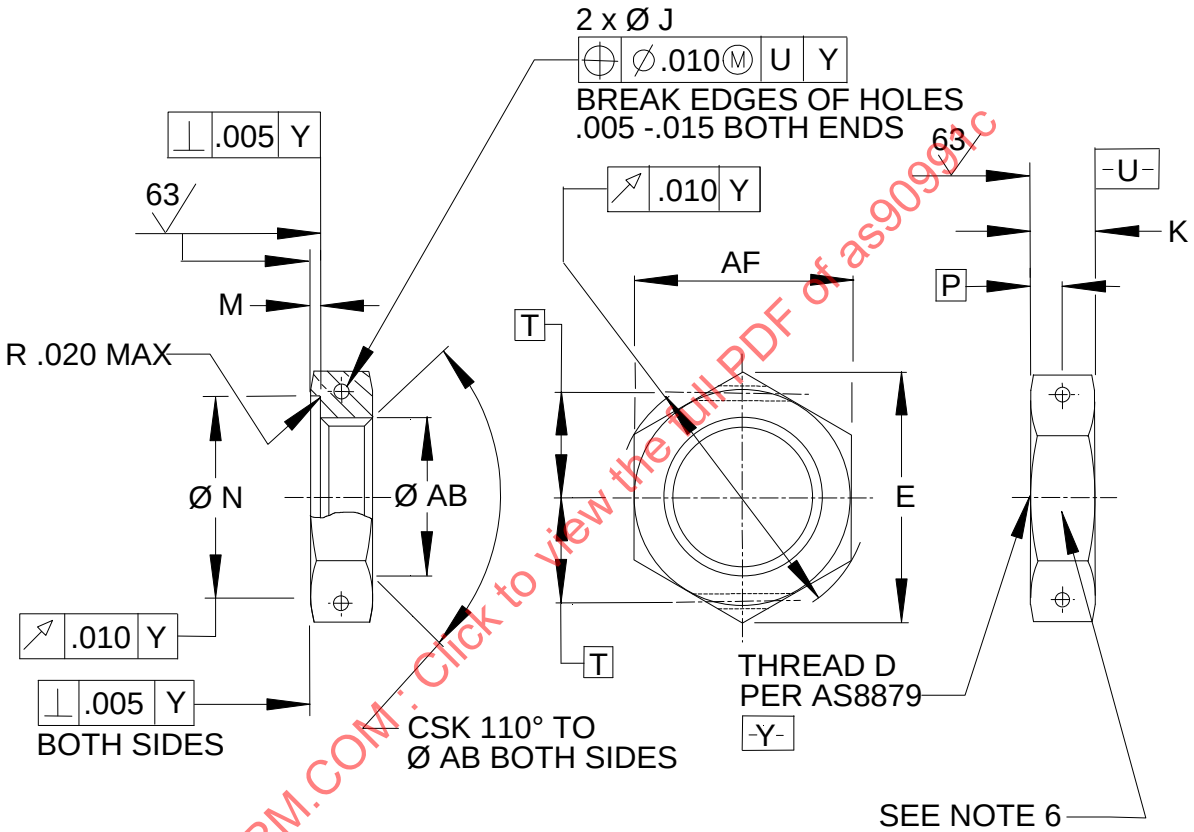
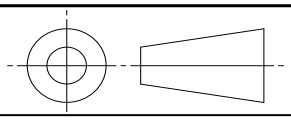


FIGURE 1

THIRD ANGLE PROJECTION



ISSUED 2000-09 REAFFIRMED 2007-06 REVISED 2013-11

CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE

AEROSPACE STANDARD

(R) NUT, HEXAGON, DRILLED, BOSS CONNECTION, ALUMINUM - UNS A92024

AS90991
SHEET 1 OF 3

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TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NUMBER	NOMINAL TUBE OD	D NOMINAL THREAD	AF	E MIN	AB	K
MS9099-02	.125	.3125-24 UNJF-3B	.553 - .564	.623	.322	.250
MS9099-03	.188	.3750-24 UNJF-3B	.616 - .627	.694	.385	.250
MS9099-04	.250	.4375-20 UNJF-3B	.679 - .690	.766	.448	.281
MS9099-05	.312	.5000-20 UNJF-3B	.741 - .752	.836	.510	.281
MS9099-06	.375	.5625-18 UNJF-3B	.803 - .814	.907	.572	.297
MS9099-07	.438	.6250-18 UNJF-3B	.865 - .877	.978	.635	.297
MS9099-08	.500	.7500-16 UNJF-3B	.990 - 1.002	1.121	.760	.344
MS9099-09	.562	.8125-16 UNJF-3B	1.052 - 1.064	1.191	.822	.344
MS9099-10	.625	.8750-14 UNJF-3B	1.114 - 1.127	1.262	.885	.391
MS9099-11	.688	1.000-12 UNJF-3B	1.301 - 1.314	1.475	1.010	.438
MS9099-12	.750	1.0625-12 UNJ-3B	1.364 - 1.377	1.547	1.072	.438
MS9099-14	.875	1.1875-12 UNJ-3B	1.489 - 1.502	1.690	1.198	.438
MS9099-16	1.000	1.3125-12 UNJ-3B	1.614 - 1.627	1.833	1.322	.438
MS9099-18	1.125	1.5000-12 UNJ-3B	1.800 - 1.814	2.045	1.510	.438
MS9099-20	1.250	1.6250-12 UNJ-3B	1.926 - 1.940	2.189	1.635	.438
MS9099-24	1.500	1.8750-12 UNJ-3B	2.176 - 2.190	2.474	1.885	.438
MS9099-28	1.750	2.2500-12 UNJ-3B	2.549 - 2.564	2.899	2.260	.438
MS9099-32	2.000	2.5000-12 UNJ-3B	2.799 - 2.814	3.185	2.510	.438

TABLE 1 - PART NUMBERS AND DIMENSIONS (CONTINUED)

PART NUMBER	NOMINAL TUBE OD	L MIN	M	N	P	T	J	APPROX MASS LB/100
MS9099-02	.125	.552	.032 - .042	.478 - .488	.125	.240	.042 - .052	.44
MS9099-03	.188	.615	.032 - .042	.541 - .551	.125	.240	.042 - .052	.51
MS9099-04	.250	.678	.037 - .047	.603 - .613	.140	.305	.042 - .052	.66
MS9099-05	.312	.740	.037 - .047	.665 - .675	.140	.340	.050 - .060	.76
MS9099-06	.375	.802	.037 - .047	.728 - .738	.148	.370	.050 - .060	.90
MS9099-07	.438	.865	.037 - .047	.790 - .800	.148	.405	.050 - .060	1.01
MS9099-08	.500	.990	.037 - .047	.915 - .925	.172	.470	.057 - .067	1.41
MS9099-09	.562	1.052	.037 - .047	.978 - .988	.172	.500	.057 - .067	1.51
MS9099-10	.625	1.115	.049 - .059	1.040 - 1.050	.195	.540	.057 - .067	1.90
MS9099-11	.688	1.302	.049 - .059	1.205 - 1.215	.219	.625	.065 - .075	3.05
MS9099-12	.750	1.365	.049 - .059	1.290 - 1.300	.219	.660	.065 - .075	3.25
MS9099-14	.875	1.490	.049 - .059	1.412 - 1.422	.219	.725	.065 - .075	3.66
MS9099-16	1.000	1.615	.049 - .059	1.536 - 1.546	.219	.790	.065 - .075	4.06
MS9099-18	1.125	1.802	.049 - .059	1.724 - 1.734	.219	.890	.065 - .075	4.69
MS9099-20	1.250	1.928	.049 - .059	1.849 - 1.859	.219	.960	.065 - .075	5.15
MS9099-24	1.500	2.178	.049 - .059	2.099 - 2.109	.219	1.095	.065 - .075	6.07
MS9099-28	1.750	2.552	.049 - .059	2.473 - 2.483.	.219	1.295	.065 - .075	7.52
MS9099-32	2.000	2.802	.049 - .059	2.723 - 2.733	.219	1.425	.065 - .075	8.55