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REV.
C

AS51989™

FEDERAL SUPPLY CLASS
5307

RATIONALE

FIGURE 1 RE-DRAWN, REVISE SHANK TO SERRATED COLLAR FILLET RADIUS, REVISE FILLET RADII ON STUD END AT BASE OF SERRATED COLLAR AND THREAD START (2 PLACES), ADD NEW VIEW X TO FIGURE 1, CLARIFY SHANK DIAMETER CALLOUT, RENUMBER NOTES, GENERAL EDITORIAL CHANGES.

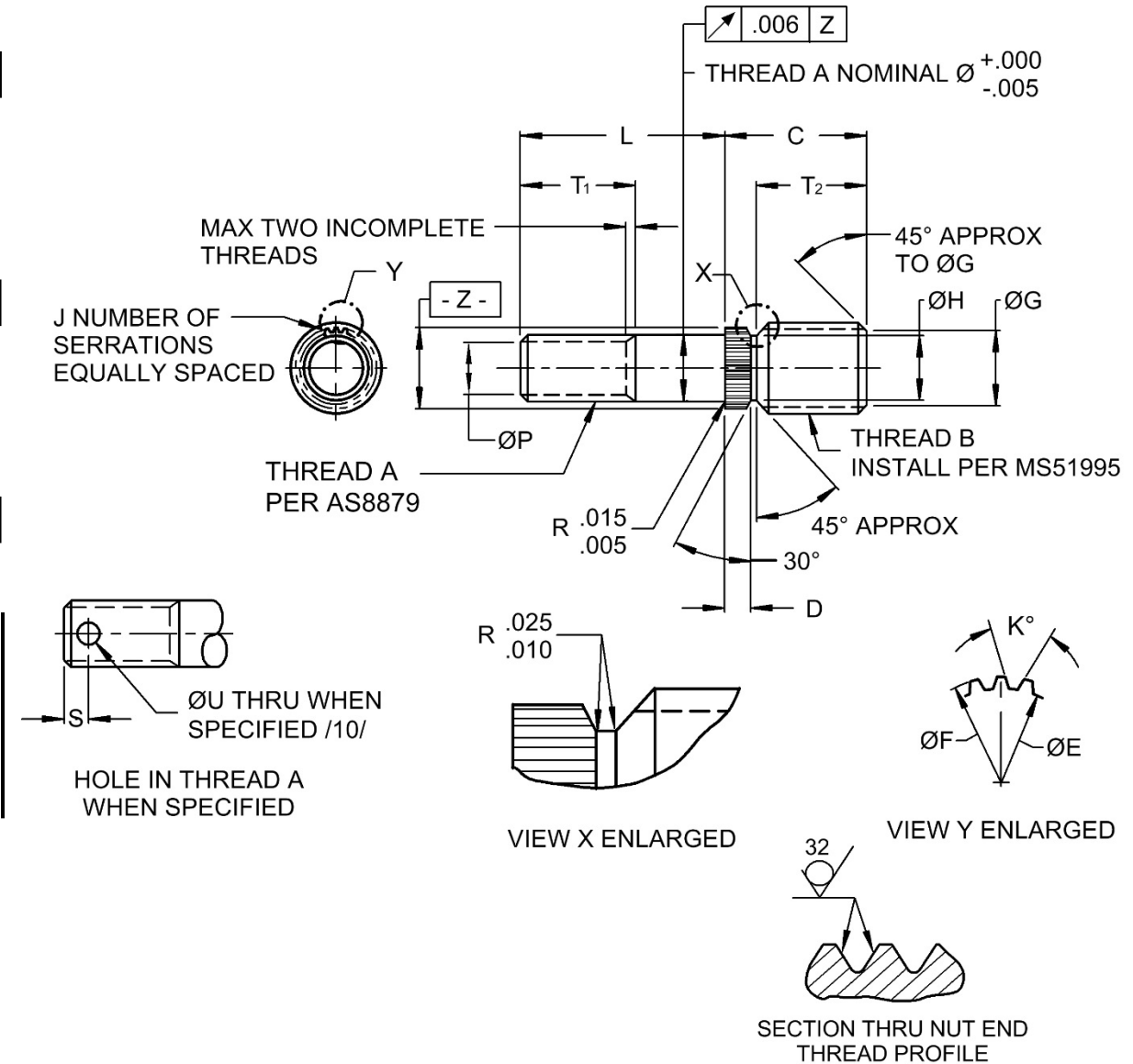
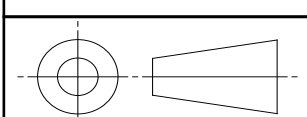


FIGURE 1 - STUD

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THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NASM45909



AEROSPACE STANDARD

STUD, LOCKED IN-RING LOCKED, SERRATED

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TABLE 1 - FINE THREAD NUT END - COARSE THREAD STUD END

MS51989 DASH NO.	A NUT END THREAD UNJF-3A	B STUD END THREAD (COARSE) SEE THREAD NOTE			C ±.015	D ±.015	E DIA +.005 -.004	F DIA +.007 -.002	G DIA ±.010	H DIA	J	K° +2° -1°	T ₁ ±.015	T ₂ ±.015	P DIA ±.010	S ±.015	U DIA	LOCKRING PART NO. /15/
	SIZE	SIZE	PITCH DIA	MINOR DIA														
-102	.1380-40	.1640-32	.1461 .1446	.1280 .1215	.250	.060	.152	.175	.113	.116	14	102°	.380	.140	.096	--	--	MS51990-102P
-103	.1640-36	.1900-24	.1654 .1639	.1413 .1334	.380	.080	.178	.201	.122	.128	16	90°	.410	.230	.117	.110	.070	MS51990-103P
-104	.1900-32	.2500-20	.2204 .2187	.1915 .1824	.440	.080	.203	.230	.169	.177	13	102°	.440	.280	.137	.120	.070	MS51990-104P
-105	.2500-28	.3125-18	.2795 .2778	.2474 .2373	.560	.080	.255	.284	.222	.232	17	86°	.500	.390	.190	.160	.076	MS51990-105P
-106	.3125-24	.3750-16	.3378 .3358	.3017 .2906	.690	.080	.316	.345	.274	.285	20	102°	.560	.510	.242	.160	.076	MS51990-106P
-107	.3750-24	.4375-14	.3946 .3926	.3534 .3411	.750	.120	.380	.407	.322	.336	24	102°	.620	.520	.305	.170	.106	MS51990-107P
-108	.4375-20	.5000-13	.4537 .4512	.4093 .3963	.810	.120	.456	.487	.375	.391	26	102°	.690	.570	.354	.170	.106	MS51990-108P
-109	.5000-20	.5625-12	.5122 .5097	.4641 .4503	.880	.120	.567	.601	.427	.445	26	111°	.810	.630	.416	.190	.106	MS51990-109P
-110	.5625-18	.6250-11	.5699 .5674	.5174 .5028	1.000	.140	.567	.601	.477	.497	26	111°	.940	.720	.469	.220	.141	MS51990-109P
-111	.6250-18	.7500-10	.6891 .6866	.6314 .6156	1.120	.160	.687	.721	.588	.610	30	111°	1.000	.820	.532	.220	.141	MS51990-110P
-112	.7500-16	.8750-9	.8071 .8046	.7430 .7257	1.310	.160	.783	.820	.695	.721	30	111°	1.120	.990	.645	.220	.141	MS51990-111P

TABLE 2 - FINE THREAD NUT END - FINE THREAD STUD END

MS51989 DASH NO.	A NUT END THREAD UNJF-3A	B STUD END THREAD (FINE) SEE THREAD NOTE			C ±.015	D ±.015	E DIA +.005 -.004	F DIA +.007 -.002	G DIA ±.010	H DIA	J	K° +2° -1°	T ₁ ±.015	T ₂ ±.015	P DIA ±.010	S ±.015	U DIA	LOCKRING PART NO. /15/
	SIZE	SIZE	PITCH DIA	MINOR DIA														
-202	.1380-40	.1640-36	.1483 .1468	.1323 .1262	.250	.060	.152	.175	.119	.121	14	102°	.380	.140	.096	--	--	MS51990-102P
-203	.1640-36	.1900-32	.1721 .1706	.1541 .1475	.380	.080	.178	.201	.139	.143	16	90°	.410	.250	.117	.110	.070	MS51990-103P
-204	.1900-32	.2500-28	.2296 .2281	.2090 .2014	.440	.080	.203	.230	.192	.197	13	102°	.440	.310	.137	.120	.070	MS51990-104P
-205	.2500-28	.3125-24	.2884 .2869	.2643 .2559	.560	.080	.255	.284	.245	.251	17	86°	.500	.420	.190	.160	.076	MS51990-105P
-206	.3125-24	.3750-24	.3512 .3497	.3271 .3185	.690	.080	.316	.345	.307	.306	20	102°	.560	.550	.242	.160	.076	MS51990-106P
-207	.3750-24	.4375-20	.4084 .4067	.3795 .3700	.750	.120	.380	.407	.356	.365	24	102°	.620	.550	.305	.170	.106	MS51990-107P
-208	.4375-20	.5000-20	.4711 .4694	.4422 .4325	.810	.120	.456	.487	.419	.427	26	102°	.690	.610	.354	.170	.106	MS51990-108P
-209	.5000-20	.5625-18	.5301 .5284	.4980 .4873	.880	.120	.567	.601	.472	.482	26	111°	.810	.670	.416	.190	.106	MS51990-109P
-210	.5625-18	.6250-18	.5927 .5910	.5606 .5498	1.000	.140	.567	.601	.535	.545	26	111°	.940	.780	.469	.220	.141	MS51990-109P
-211	.6250-18	.7500-16	.7134 .7114	.6773 .6656	1.120	.160	.687	.721	.648	.661	30	111°	1.000	.880	.532	.220	.141	MS51990-110P
-212	.7500-16	.8750-14	.8328 .8308	.7916 .7786	1.310	.160	.783	.820	.759	.773	30	111°	1.120	1.050	.645	.220	.141	MS51990-111P

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	STUD, LOCKED IN-RING LOCKED, SERRATED			



