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REV.
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AS3163™

FEDERAL SUPPLY CLASS
5310

RATIONALE

UPDATE THREAD SPECIFICATION TO AS8879, UPDATE DIMENSIONING AND TOLERANCING TO ANSI Y14.5M-1982, ADD CORROSION PROTECTION NOTE, ADD NOTE FOR EXISTING INVENTORY, DELETE SI DIMENSIONS, UPDATE SURFACE TEXTURE NOTE, UPDATE REFERENCES, FIGURE 1 REDRAWN, AND GENERAL EDITORIAL UPDATE.

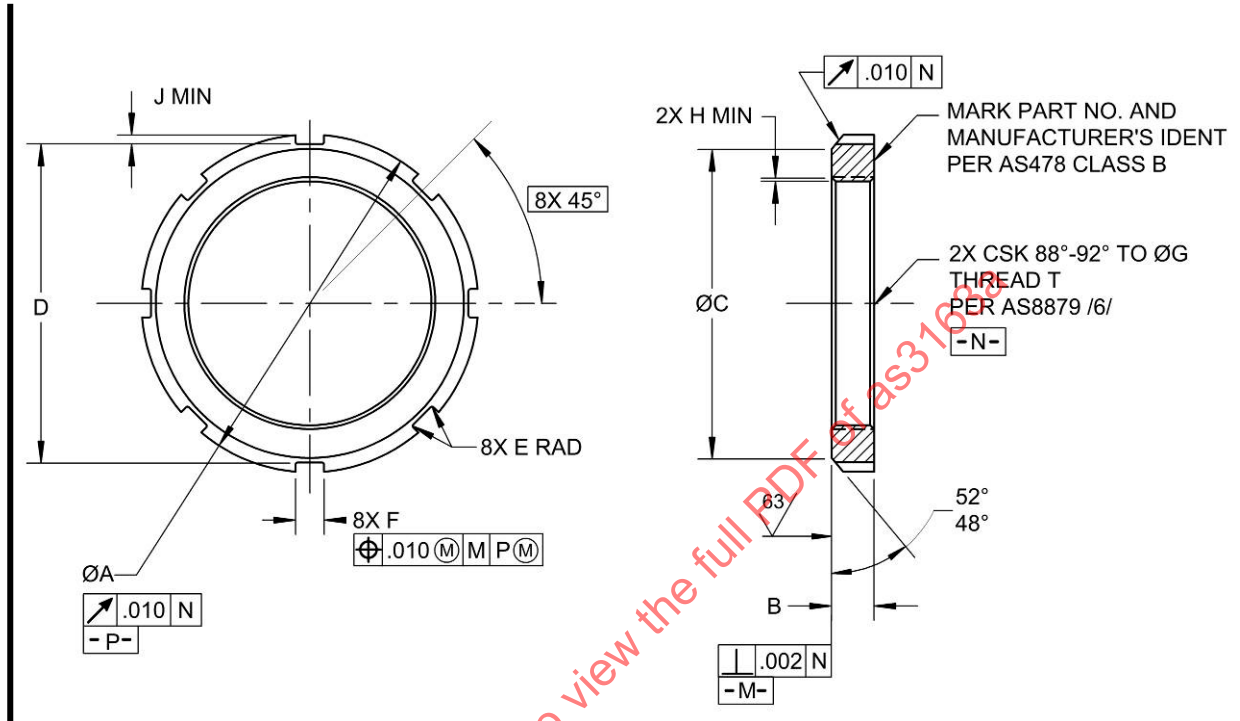
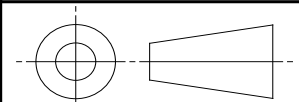


FIGURE 1 - NUT, PLAIN

For more information on this standard, visit
<https://www.sae.org/standards/content/AS3163A>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE



AEROSPACE STANDARD

NUT, PLAIN - O.D. SLOTS, KEY WASHER LOCKED,
LOW ALLOY STEEL (SAE 8740), AS8879

AS3163™
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TABLE 1A – PART NUMBERS AND DIMENSIONS T, ØA, B, ØC, D, AND E

PART NUMBER	T THREAD /1/	ØA	B	ØC	D	E
AS3163-04	.5000-28UNJEF-3B	1.032-1.052	.178-.198	.839-.859	.912-.932	.000-.020
AS3163-05	.5625-24UNJEF-3B	1.094-1.114	.209-.229	.902-.922	.974-.994	.000-.020
AS3163-06	.6250-24UNJEF-3B	1.157-1.177	.209-.229	.964-.984	1.037-1.057	.000-.020
AS3163-07	.6875-24UNJEF-3B	1.297-1.317	.209-.229	1.105-1.125	1.178-1.198	.000-.020
AS3163-08	.7500-20UNJEF-3B	1.376-1.396	.240-.260	1.183-1.203	1.256-1.276	.005-.025
AS3163-09	.8125-20UNJEF-3B	1.454-1.474	.240-.260	1.261-1.281	1.334-1.354	.005-.025
AS3163-10	.8750-20UNJEF-3B	1.516-1.536	.240-.260	1.324-1.344	1.396-1.416	.005-.025
AS3163-11	.9375-20UNJEF-3B	1.579-1.599	.240-.260	1.386-1.406	1.459-1.479	.005-.025
AS3163-12	1.0000-20UNJEF-3B	1.704-1.724	.271-.291	1.449-1.469	1.521-1.541	.005-.025
AS3163-13	1.0625-18UNJEF-3B	1.797-1.817	.271-.291	1.542-1.562	1.615-1.635	.005-.025
AS3163-14	1.1250-18UNJEF-3B	1.860-1.880	.271-.291	1.605-1.625	1.678-1.698	.005-.025
AS3163-15	1.1875-18UNJEF-3B	1.923-1.943	.271-.291	1.668-1.688	1.740-1.760	.005-.025
AS3163-16	1.2500-18UNJEF-3B	1.985-2.005	.271-.291	1.730-1.750	1.802-1.822	.005-.025
AS3163-17	1.3125-18UNJEF-3B	2.047-2.067	.271-.291	1.792-1.812	1.865-1.885	.005-.025
AS3163-18	1.3750-18UNJEF-3B	2.110-2.130	.271-.291	1.855-1.875	1.928-1.948	.005-.025
AS3163-19	1.4375-18UNJEF-3B	2.173-2.193	.271-.291	1.918-1.938	1.990-2.010	.010-.030
AS3163-20	1.5000-18UNJEF-3B	2.235-2.255	.271-.291	1.980-2.000	2.052-2.072	.010-.030
AS3163-21	1.5625-18UNJEF-3B	2.297-2.317	.271-.291	2.042-2.062	2.115-2.135	.010-.030
AS3163-22	1.6250-18UNJEF-3B	2.360-2.380	.302-.322	2.105-2.125	2.178-2.198	.010-.030
AS3163-23	1.6875-18UNJEF-3B	2.423-2.443	.302-.322	2.168-2.188	2.240-2.260	.010-.030
AS3163-24	1.7500-16UNJ-3B	2.516-2.536	.302-.322	2.261-2.281	2.334-2.354	.010-.030
AS3163-25	1.8125-16UNJ-3B	2.579-2.599	.302-.322	2.324-2.344	2.396-2.416	.010-.030
AS3163-26	1.8750-16UNJ-3B	2.641-2.661	.302-.322	2.386-2.406	2.459-2.479	.010-.030
AS3163-27	1.9375-16UNJ-3B	2.704-2.724	.302-.322	2.449-2.469	2.521-2.541	.010-.030
AS3163-28	2.0000-16UNJ-3B	2.766-2.786	.302-.322	2.511-2.531	2.584-2.604	.010-.030
AS3163-29	2.0625-16UNJS-3B	2.829-2.849	.302-.322	2.574-2.594	2.646-2.666	.010-.030
AS3163-30	2.1250-16UNJ-3B	2.891-2.911	.302-.322	2.636-2.656	2.709-2.729	.010-.030
AS3163-31	2.1875-16UNJS-3B	2.954-2.974	.302-.322	2.699-2.719	2.771-2.791	.010-.030
AS3163-32	2.2500-16UNJ-3B	3.016-3.036	.302-.322	2.761-2.781	2.834-2.854	.010-.030
AS3163-33	2.3125-16UNJS-3B	3.079-3.099	.302-.322	2.824-2.844	2.896-2.916	.010-.030
AS3163-34	2.3750-16UNJ-3B	3.141-3.161	.302-.322	2.886-2.906	2.959-2.979	.010-.030
AS3163-35	2.4375-16UNJS-3B	3.204-3.224	.302-.322	2.949-2.969	3.021-3.041	.010-.030
AS3163-36	2.5000-16UNJ-3B	3.266-3.286	.302-.322	3.011-3.031	3.084-3.104	.010-.030

/1/ SEE TABLE 2 FOR DIMENSIONS OF UNJS-3B THREADS.



AEROSPACE STANDARD

NUT, PLAIN - O.D. SLOTS, KEY WASHER LOCKED,
LOW ALLOY STEEL (SAE 8740), AS8879AS3163™
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TABLE 1B – PART NUMBERS, DIMENSIONS F, G, H, AND APPROX. MASS

PART NUMBER	F	ØG	H MIN	APPROX. MASS LB/100
AS3163-04	.120-.130	.500-.520	.010	2.95
AS3163-05	.120-.130	.562-.582	.012	3.82
AS3163-06	.120-.130	.625-.645	.012	4.13
AS3163-07	.120-.130	.688-.708	.012	5.38
AS3163-08	.178-.198	.750-.770	.016	6.75
AS3163-09	.178-.198	.812-.832	.016	7.43
AS3163-10	.178-.198	.875-.895	.016	7.87
AS3163-11	.178-.198	.938-.958	.016	8.31
AS3163-12	.178-.198	1.000-1.020	.016	10.46
AS3163-13	.178-.198	1.062-1.082	.018	11.69
AS3163-14	.178-.198	1.125-1.145	.018	12.26
AS3163-15	.178-.198	1.188-1.208	.018	12.82
AS3163-16	.178-.198	1.250-1.270	.018	13.36
AS3163-17	.178-.198	1.312-1.332	.018	13.90
AS3163-18	.178-.198	1.375-1.395	.018	14.47
AS3163-19	.240-.260	1.438-1.458	.018	14.88
AS3163-20	.240-.260	1.500-1.520	.018	15.36
AS3163-21	.240-.260	1.562-1.582	.018	15.90
AS3163-22	.240-.260	1.625-1.645	.018	18.44
AS3163-23	.240-.260	1.688-1.708	.018	19.07
AS3163-24	.240-.260	1.750-1.770	.021	20.84
AS3163-25	.240-.260	1.812-1.832	.021	21.50
AS3163-26	.240-.260	1.875-1.895	.021	22.14
AS3163-27	.240-.260	1.938-1.958	.021	22.80
AS3163-28	.240-.260	2.000-2.020	.021	23.44
AS3163-29	.240-.260	2.062-2.082	.021	24.11
AS3163-30	.240-.260	2.125-2.145	.021	24.75
AS3163-31	.240-.260	2.188-2.208	.021	25.41
AS3163-32	.240-.260	2.250-2.270	.021	26.05
AS3163-33	.240-.260	2.312-2.332	.021	26.71
AS3163-34	.240-.260	2.375-2.395	.021	27.35
AS3163-35	.240-.260	2.438-2.458	.021	28.02
AS3163-36	.240-.260	2.500-2.520	.021	28.65

TABLE 2 – THREAD DIMENSIONS FOR UNJS-3B

PART NUMBER	T THREAD	MINOR DIAMETER	PITCH DIAMETER	MAJOR DIAMETER MIN
AS3163-29	2.0625-16UNJS-3B	2.0017-2.0102	2.0219-2.0271	2.0625
AS3163-31	2.1875-16UNJS-3B	2.1267-2.1352	2.1469-2.1521	2.1875
AS3163-33	2.3125-16UNJS-3B	2.2517-2.2602	2.2719-2.2773	2.3125
AS3163-35	2.4375-16UNJS-3B	2.3767-2.3852	2.3969-2.4023	2.4375



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