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**REV.  
B**

**SAE AS9303**

FEDERAL SUPPLY CLASS  
5307

**RATIONALE**

UPDATE CAMIUM NOTICE AND CORRECT TYPO FOR THE MPI REQUIREMENT IN NOTE 6.

**NOTICE**

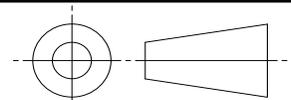
THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9303B, NOTICE 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

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.

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THIRD ANGLE PROJECTION



ISSUED 1999-12 REVISED 2009-02

CUSTODIAN: SAE E-25

PROCUREMENT SPECIFICATION: AS7452

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

STUD, SHOULDERED, HEXAGON WRENCHING,  
STEEL UNS G87400, CADMIUM PLATED, 125 KSI MIN,  
.1900-32 UNF-3A X .1900-32 UNF-3A

**SAE AS9303**  
SHEET 1 OF 5

**REV.  
B**



TABLE 1 – PART NUMBERS AND DIMENSIONS

PART NUMBER	A	B	C	L REF	APPROX. MASS LB/100
MS9303-001	.365 - .385	1/	.365 - .385	.875	.90
MS9303-002	.365 - .385	1/	.428 - .448	.938	.94
MS9303-003	.365 - .385	1/	.490 - .510	1.000	.98
MS9303-004	.365 - .385	1/	.552 - .572	1.062	1.02
MS9303-005	.365 - .385	1/	.615 - .635	1.125	1.06
MS9303-006	.365 - .385	1/	.678 - .698	1.188	1.10
MS9303-007	.365 - .385	.065 - .125	.740 - .760	1.250	1.14
MS9303-008	.365 - .385	.128 - .188	.802 - .822	1.312	1.18
MS9303-009	.365 - .385	.190 - .250	.865 - .885	1.375	1.22
MS9303-010	.365 - .385	.252 - .312	.928 - .948	1.438	1.26
MS9303-011	.365 - .385	.315 - .375	.990 - 1.010	1.500	1.30
MS9303-012	.365 - .385	.378 - .438	1.052 - 1.072	1.562	1.34
MS9303-013	.365 - .385	.440 - .500	1.115 - 1.135	1.625	1.38
MS9303-014	.365 - .385	.502 - .562	1.178 - 1.198	1.688	1.42
MS9303-015	.365 - .385	.565 - .625	1.240 - 1.260	1.750	1.46
MS9303-016	.365 - .385	.628 - .688	1.302 - 1.322	1.812	1.50
MS9303-017	.365 - .385	.690 - .750	1.365 - 1.385	1.875	1.54
MS9303-018	.365 - .385	.752 - .812	1.428 - 1.448	1.938	1.58
MS9303-019	.365 - .385	.815 - .875	1.490 - 1.510	2.000	1.62
MS9303-020	.365 - .385	.878 - .938	1.552 - 1.572	2.062	1.66
MS9303-021	.365 - .385	.940 - 1.000	1.615 - 1.635	2.125	1.70
MS9303-022	.365 - .385	1.002 - 1.062	1.678 - 1.698	2.188	1.74
MS9303-023	.365 - .385	1.065 - 1.125	1.740 - 1.760	2.250	1.78

TABLE 1 – PART NUMBERS AND DIMENSIONS – CONTINUED

PART NUMBER	A	B	C	L REF	APPROX. MASS LB/100
MS9303-050	.428 - .448	1/	.365 - .385	.938	.94
MS9303-051	.428 - .448	1/	.428 - .448	1.000	.98
MS9303-052	.428 - .448	1/	.490 - .510	1.062	1.02
MS9303-053	.428 - .448	1/	.552 - .572	1.125	1.06
MS9303-054	.428 - .448	1/	.615 - .635	1.188	1.10
MS9303-055	.428 - .448	1/	.678 - .698	1.250	1.14
MS9303-056	.428 - .448	.065 - .125	.740 - .760	1.312	1.18
MS9303-057	.428 - .448	.128 - .188	.802 - .822	1.375	1.22
MS9303-058	.428 - .448	.190 - .250	.865 - .885	1.438	1.26
MS9303-059	.428 - .448	.252 - .312	.928 - .948	1.500	1.30
MS9303-060	.428 - .448	.315 - .375	.990 - 1.010	1.562	1.34
MS9303-061	.428 - .448	.378 - .438	1.052 - 1.072	1.625	1.38
MS9303-062	.428 - .448	.440 - .500	1.115 - 1.135	1.688	1.42
MS9303-063	.428 - .448	.502 - .562	1.178 - 1.198	1.750	1.46
MS9303-064	.428 - .448	.565 - .625	1.240 - 1.260	1.812	1.50
MS9303-065	.428 - .448	.628 - .688	1.302 - 1.322	1.875	1.54
MS9303-066	.428 - .448	.690 - .750	1.365 - 1.385	1.938	1.58
MS9303-067	.428 - .448	.752 - .812	1.428 - 1.448	2.000	1.62
MS9303-068	.428 - .448	.815 - .875	1.490 - 1.510	2.062	1.66
MS9303-069	.428 - .448	.878 - .938	1.552 - 1.572	2.125	1.70
MS9303-070	.428 - .448	.940 - 1.000	1.615 - 1.635	2.188	1.74
MS9303-071	.428 - .448	1.002 - 1.062	1.678 - 1.698	2.250	1.78
MS9303-072	.428 - .448	1.065 - 1.125	1.740 - 1.760	2.312	1.82

TABLE 1 – PART NUMBERS AND DIMENSIONS - CONTINUED

PART NUMBER	A	B	C	L REF	APPROX. MASS LB/100
MS9303-100	.490 - .510	1/	.365 - .385	1.000	.98
MS9303-101	.490 - .510	1/	.428 - .448	1.062	1.02
MS9303-102	.490 - .510	1/	.490 - .510	1.125	1.06
MS9303-103	.490 - .510	1/	.552 - .572	1.188	1.10
MS9303-104	.490 - .510	1/	.615 - .635	1.250	1.14
MS9303-105	.490 - .510	1/	.678 - .698	1.312	1.18
MS9303-106	.490 - .510	.065 - .125	.740 - .760	1.375	1.22
MS9303-107	.490 - .510	.128 - .188	.802 - .822	1.438	1.26
MS9303-108	.490 - .510	.190 - .250	.865 - .885	1.500	1.30
MS9303-109	.490 - .510	.252 - .312	.928 - .948	1.562	1.34
MS9303-110	.490 - .510	.315 - .375	.990 - 1.010	1.625	1.38
MS9303-111	.490 - .510	.378 - .438	1.052 - 1.072	1.688	1.42
MS9303-112	.490 - .510	.440 - .500	1.115 - 1.135	1.750	1.46
MS9303-113	.490 - .510	.502 - .562	1.178 - 1.198	1.812	1.50
MS9303-114	.490 - .510	.565 - .625	1.240 - 1.260	1.875	1.54
MS9303-115	.490 - .510	.628 - .688	1.302 - 1.322	1.938	1.58
MS9303-116	.490 - .510	.690 - .750	1.365 - 1.385	2.000	1.62
MS9303-117	.490 - .510	.752 - .812	1.428 - 1.448	2.062	1.66
MS9303-118	.490 - .510	.815 - .875	1.490 - 1.510	2.125	1.70
MS9303-119	.490 - .510	.878 - .938	1.552 - 1.572	2.188	1.74
MS9303-120	.490 - .510	.940 - 1.000	1.615 - 1.635	2.250	1.78
MS9303-121	.490 - .510	1.002 - 1.062	1.678 - 1.698	2.312	1.82
MS9303-122	.490 - .510	1.065 - 1.125	1.740 - 1.760	2.375	1.86

TABLE 1 – PART NUMBERS AND DIMENSIONS – CONTINUED

PART NUMBER	A	B	C	L REF	APPROX. MASS LB/100
MS9303-150	.552 - .572	1/	.365 - .385	1.062	1.02
MS9303-151	.552 - .572	1/	.428 - .448	1.125	1.06
MS9303-152	.552 - .572	1/	.490 - .510	1.188	1.10
MS9303-153	.552 - .572	1/	.552 - .572	1.250	1.14
MS9303-154	.552 - .572	1/	.615 - .635	1.312	1.18
MS9303-155	.552 - .572	1/	.678 - .698	1.375	1.22
MS9303-156	.552 - .572	.065 - .125	.740 - .760	1.438	1.26
MS9303-157	.552 - .572	.128 - .188	.802 - .822	1.500	1.30
MS9303-158	.552 - .572	.190 - .250	.865 - .885	1.562	1.34
MS9303-159	.552 - .572	.252 - .312	.928 - .948	1.625	1.38
MS9303-160	.552 - .572	.315 - .375	.990 - 1.010	1.688	1.42
MS9303-161	.552 - .572	.378 - .438	1.052 - 1.072	1.750	1.46
MS9303-162	.552 - .572	.440 - .500	1.115 - 1.135	1.812	1.50
MS9303-163	.552 - .572	.502 - .562	1.178 - 1.198	1.875	1.54
MS9303-164	.552 - .572	.565 - .625	1.240 - 1.260	1.938	1.58
MS9303-165	.552 - .572	.628 - .688	1.302 - 1.322	2.000	1.62
MS9303-166	.552 - .572	.690 - .750	1.365 - 1.385	2.062	1.66
MS9303-167	.552 - .572	.752 - .812	1.428 - 1.448	2.125	1.70
MS9303-168	.552 - .572	.815 - .875	1.490 - 1.510	2.188	1.74
MS9303-169	.552 - .572	.878 - .938	1.552 - 1.572	2.250	1.78
MS9303-170	.552 - .572	.940 - 1.000	1.615 - 1.635	2.312	1.82
MS9303-171	.552 - .572	1.002 - 1.062	1.678 - 1.698	2.375	1.86
MS9303-172	.552 - .572	1.065 - 1.125	1.740 - 1.760	2.438	1.90

1/ THREAD TO HEAD. MAXIMUM TWO INCOMPLETE THREADS