

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

**REV.
A**

AS9305

FEDERAL SUPPLY CLASS
5307

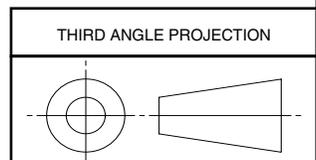
THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9305B, NOTICE 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

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.

WARNING

THIS DOCUMENT INCLUDES CADMIUM AS A PLATING MATERIAL. THE USE OF CADMIUM HAS BEEN RESTRICTED AND/OR BANNED FOR USE IN MANY COUNTRIES DUE TO ENVIRONMENTAL AND HEALTH CONCERNS. THE USER SHOULD CONSULT WITH LOCAL OFFICIALS ON THE ENVIRONMENTAL AND HEALTH REGULATIONS REGARDING ITS USE.

SAENORM.COM : Click to view the full PDF of as9305a



CUSTODIAN: SAE E-25

ISSUED 1999-12 REVISED 2005-03



AEROSPACE STANDARD

(R) STUD, SHOULDERED, HEXAGON WRENCHING, STEEL UNS G87400, CADMIUM PLATED, 125 KSI MIN, .2500-28 UNF-3A X .2500-28 UNF-3A

AS9305
SHEET 1 OF 5

**REV.
A**

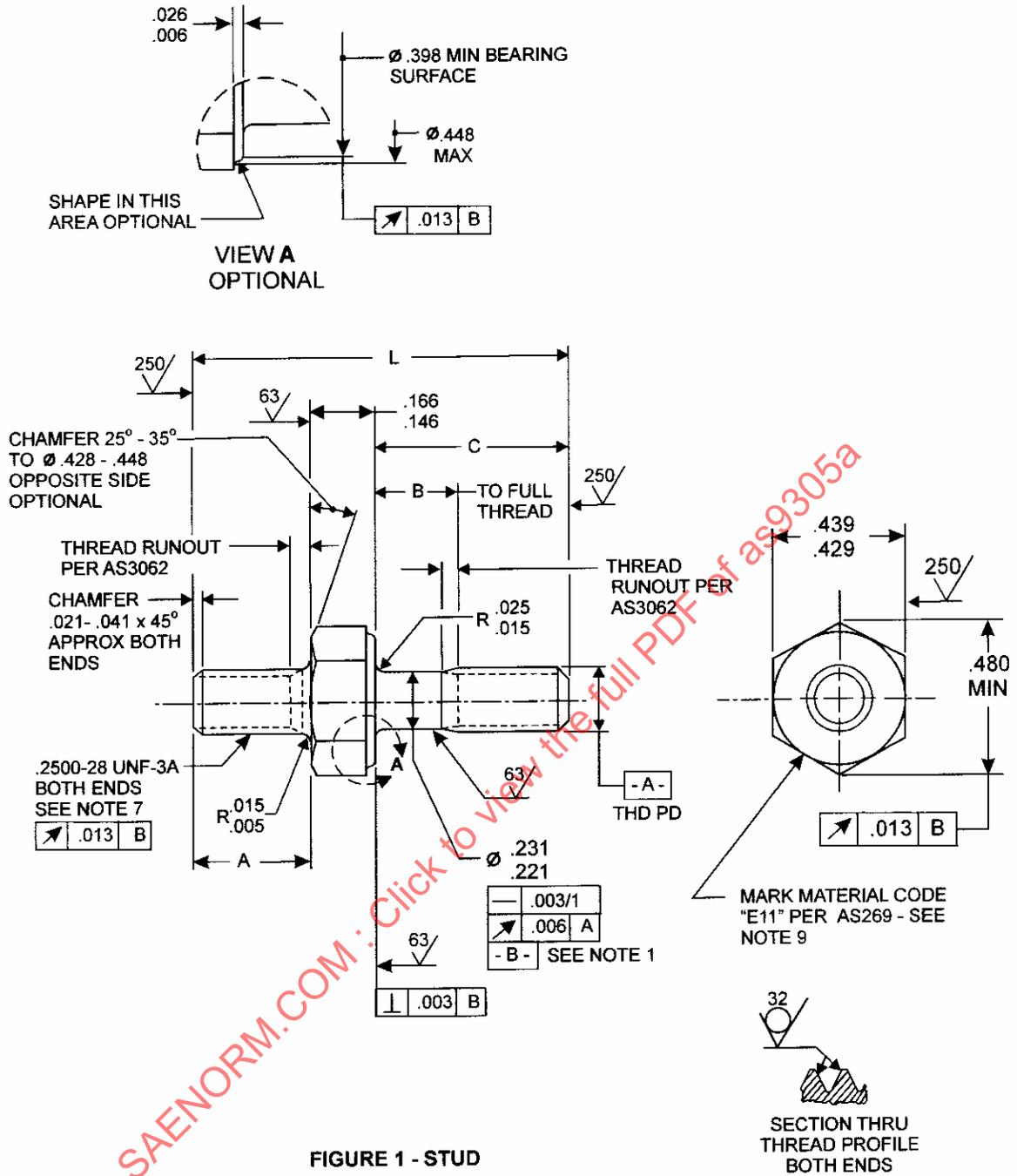


FIGURE 1 - STUD

TABLE 1 - PART NUMBERS AND DIMENSIONS.

PART NUMBER	A	B	C	L REF	APPROX. MASS LB/100
MS9305-001	.428 - .448	1/	.490 - .510	1.094	1.80
MS9305-002	.428 - .448	1/	.552 - .572	1.156	1.87
MS9305-003	.428 - .448	1/	.615 - .625	1.219	1.93
MS9305-004	.428 - .448	1/	.678 - .698	1.281	2.00
MS9305-005	.428 - .448	1/	.740 - .760	1.344	2.07
MS9305-006	.428 - .448	1/	.802 - .822	1.406	2.14
MS9305-007	.428 - .448	.065 - .125	.865 - .885	1.469	2.21
MS9305-008	.428 - .448	.128 - .188	.928 - .948	1.531	2.28
MS9305-009	.428 - .448	.190 - .250	.990 - 1.010	1.594	2.35
MS9305-010	.428 - .448	.252 - .312	1.052 - 1.072	1.656	2.42
MS9305-011	.428 - .448	.315 - .375	1.115 - 1.135	1.719	2.49
MS9305-012	.428 - .448	.378 - .438	1.178 - 1.198	1.781	2.56
MS9305-013	.428 - .448	.440 - .500	1.240 - 1.260	1.844	2.63
MS9305-014	.428 - .448	.502 - .562	1.302 - 1.322	1.906	2.70
MS9305-015	.428 - .448	.565 - .625	1.365 - 1.385	1.969	2.77
MS9305-016	.428 - .448	.628 - .688	1.428 - 1.448	2.031	2.84
MS9305-017	.428 - .448	.690 - .750	1.490 - 1.510	2.094	2.91
MS9305-018	.428 - .448	.752 - .812	1.552 - 1.572	2.156	2.98
MS9305-019	.428 - .448	.815 - .875	1.615 - 1.635	2.219	3.05
MS9305-020	.428 - .448	.878 - .938	1.678 - 1.698	2.281	3.12
MS9305-021	.428 - .448	.940 - 1.000	1.740 - 1.760	2.344	3.19
MS9305-022	.428 - .448	1.002 - 1.062	1.802 - 1.822	2.406	3.26
MS9305-023	.428 - .448	1.065 - 1.125	1.865 - 1.885	2.469	3.33
MS9305-024	.428 - .448	1.128 - 1.188	1.928 - 1.948	2.531	3.40
MS9305-025	.428 - .448	1.190 - 1.250	1.990 - 2.010	2.594	3.47

TABLE 1 - PART NUMBERS AND DIMENSIONS - CONTINUED.

PART NUMBER	A	B	C	L REF	APPROX. MASS LB/100
MS9305-050	.490 - .510	1/	.490 - .510	1.156	1.87
MS9305-051	.490 - .510	1/	.552 - .572	1.219	1.94
MS9305-052	.490 - .510	1/	.615 - .625	1.281	2.01
MS9305-053	.490 - .510	1/	.678 - .698	1.344	2.08
MS9305-054	.490 - .510	1/	.740 - .760	1.406	2.15
MS9305-055	.490 - .510	1/	.802 - .822	1.469	2.22
MS9305-056	.490 - .510	.065 - .125	.865 - .885	1.531	2.29
MS9305-057	.490 - .510	.128 - .188	.928 - .948	1.594	2.36
MS9305-058	.490 - .510	.190 - .250	.990 - 1.010	1.656	2.43
MS9305-059	.490 - .510	.252 - .312	1.052 - 1.072	1.719	2.50
MS9305-060	.490 - .510	.315 - .375	1.115 - 1.135	1.781	2.57
MS9305-061	.490 - .510	.378 - .438	1.178 - 1.198	1.844	2.64
MS9305-062	.490 - .510	.440 - .500	1.240 - 1.260	1.906	2.71
MS9305-063	.490 - .510	.502 - .562	1.302 - 1.322	1.969	2.78
MS9305-064	.490 - .510	.565 - .625	1.365 - 1.385	2.031	2.85
MS9305-065	.490 - .510	.628 - .688	1.428 - 1.448	2.094	2.92
MS9305-066	.490 - .510	.690 - .750	1.490 - 1.510	2.156	2.99
MS9305-067	.490 - .510	.752 - .812	1.552 - 1.572	2.219	3.06
MS9305-068	.490 - .510	.815 - .875	1.615 - 1.635	2.281	3.13
MS9305-069	.490 - .510	.878 - .938	1.678 - 1.698	2.344	3.20
MS9305-070	.490 - .510	.940 - 1.000	1.740 - 1.760	2.406	3.27
MS9305-071	.490 - .510	1.002 - 1.062	1.802 - 1.822	2.469	3.34
MS9305-072	.490 - .510	1.065 - 1.125	1.865 - 1.885	2.531	3.41
MS9305-073	.490 - .510	1.128 - 1.188	1.928 - 1.948	2.594	3.48
MS9305-074	.490 - .510	1.190 - 1.250	1.990 - 2.010	2.656	3.55

TABLE 1 - PART NUMBERS AND DIMENSIONS - CONTINUED.

PART NUMBER	A	B	C	L REF	APPROX. MASS LB/100
MS9305-100	.552 - .572	<u>1/</u>	.490 - .510	1.219	1.94
MS9305-101	.552 - .572	<u>1/</u>	.552 - .572	1.281	2.01
MS9305-102	.552 - .572	<u>1/</u>	.615 - .625	1.344	2.08
MS9305-103	.552 - .572	<u>1/</u>	.678 - .698	1.406	2.15
MS9305-104	.552 - .572	<u>1/</u>	.740 - .760	1.469	2.22
MS9305-105	.552 - .572	<u>1/</u>	.802 - .822	1.531	2.29
MS9305-106	.552 - .572	.065 - .125	.865 - .885	1.594	2.36
MS9305-107	.552 - .572	.128 - .188	.928 - .948	1.656	2.43
MS9305-108	.552 - .572	.190 - .250	.990 - 1.010	1.719	2.50
MS9305-109	.552 - .572	.252 - .312	1.052 - 1.072	1.781	2.57
MS9305-110	.552 - .572	.315 - .375	1.115 - 1.135	1.844	2.64
MS9305-111	.552 - .572	.378 - .438	1.178 - 1.198	1.906	2.71
MS9305-112	.552 - .572	.440 - .500	1.240 - 1.260	1.969	2.78
MS9305-113	.552 - .572	.502 - .562	1.302 - 1.322	2.031	2.85
MS9305-114	.552 - .572	.565 - .625	1.365 - 1.385	2.094	2.92
MS9305-115	.552 - .572	.628 - .688	1.428 - 1.448	2.156	2.99
MS9305-116	.552 - .572	.690 - .750	1.490 - 1.510	2.219	3.06
MS9305-117	.552 - .572	.752 - .812	1.552 - 1.572	2.281	3.13
MS9305-118	.552 - .572	.815 - .875	1.615 - 1.635	2.344	3.20
MS9305-119	.552 - .572	.878 - .938	1.678 - 1.698	2.406	3.27
MS9305-120	.552 - .572	.940 - 1.000	1.740 - 1.760	2.469	3.34
MS9305-121	.552 - .572	1.002 - 1.062	1.802 - 1.822	2.531	3.41
MS9305-122	.552 - .572	1.065 - 1.125	1.865 - 1.885	2.594	3.48
MS9305-123	.552 - .572	1.128 - 1.188	1.928 - 1.948	2.656	3.55
MS9305-124	.552 - .572	1.190 - 1.250	1.990 - 2.010	2.719	3.62

TABLE 1 - PART NUMBERS AND DIMENSIONS - CONTINUED.

PART NUMBER	A	B	C	L REF	APPROX. MASS LB/100
MS9305-150	.615 - .635	<u>1/</u>	.490 - .510	1.281	2.01
MS9305-151	.615 - .635	<u>1/</u>	.552 - .572	1.344	2.08
MS9305-152	.615 - .635	<u>1/</u>	.615 - .625	1.406	2.15
MS9305-153	.615 - .635	<u>1/</u>	.678 - .698	1.469	2.22
MS9305-154	.615 - .635	<u>1/</u>	.740 - .760	1.531	2.29
MS9305-155	.615 - .635	<u>1/</u>	.802 - .822	1.594	2.36
MS9305-156	.615 - .635	.065 - .125	.865 - .885	1.656	2.43
MS9305-157	.615 - .635	.128 - .188	.928 - .948	1.719	2.50
MS9305-158	.615 - .635	.190 - .250	.990 - 1.010	1.781	2.57
MS9305-159	.615 - .635	.252 - .312	1.052 - 1.072	1.844	2.64
MS9305-160	.615 - .635	.315 - .375	1.115 - 1.135	1.906	2.71
MS9305-161	.615 - .635	.378 - .438	1.178 - 1.198	1.969	2.78
MS9305-162	.615 - .635	.440 - .500	1.240 - 1.260	2.031	2.85
MS9305-163	.615 - .635	.502 - .562	1.302 - 1.322	2.094	2.92
MS9305-164	.615 - .635	.565 - .625	1.365 - 1.385	2.156	2.99
MS9305-165	.615 - .635	.628 - .688	1.428 - 1.448	2.219	3.06
MS9305-166	.615 - .635	.690 - .750	1.490 - 1.510	2.281	3.13
MS9305-167	.615 - .635	.752 - .812	1.552 - 1.572	2.344	3.20
MS9305-168	.615 - .635	.815 - .875	1.615 - 1.635	2.406	3.27
MS9305-169	.615 - .635	.878 - .938	1.678 - 1.698	2.469	3.34
MS9305-170	.615 - .635	.940 - 1.000	1.740 - 1.760	2.531	3.41
MS9305-171	.615 - .635	1.002 - 1.062	1.802 - 1.822	2.594	3.48
MS9305-172	.615 - .635	1.065 - 1.125	1.865 - 1.885	2.656	3.55
MS9305-173	.615 - .635	1.128 - 1.188	1.928 - 1.948	2.719	3.62
MS9305-174	.615 - .635	1.190 - 1.250	1.990 - 2.010	2.781	3.69

1/ THREAD TO HEAD. MAXIMUM TWO INCOMPLETE THREADS.