

REV.  
B

AS91001

FEDERAL SUPPLY CLASS  
5310

RATIONALE

THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9100B, AMENDMENT 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.

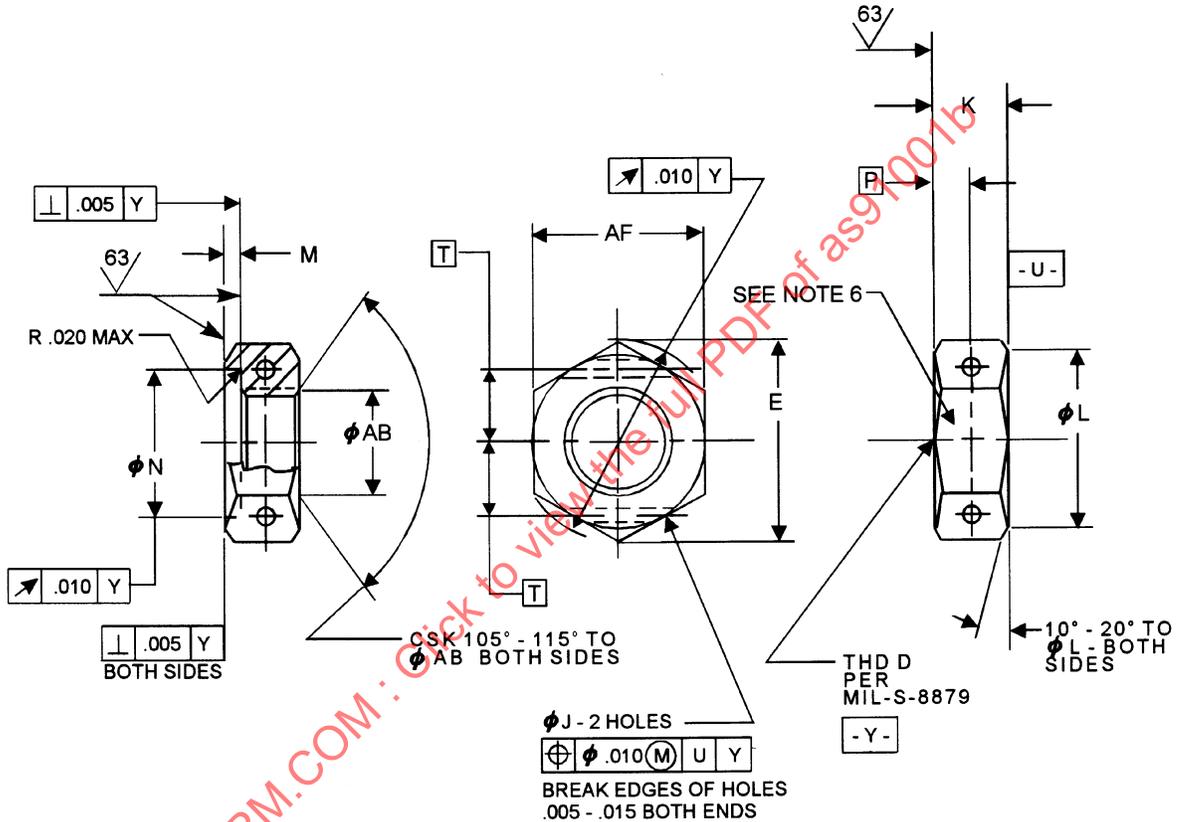
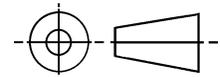


FIGURE 1

THIRD ANGLE PROJECTION



PREPARED BY SAE COMMITTEE E-25, GENERAL STANDARDS FOR AEROSPACE PROPULSION SYSTEMS

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

NUT, HEXAGON, DRILLED, BOSS  
CONNECTION, CRES - UNS S30400

**AS91001**  
SHEET 1 OF 3

**REV.  
B**

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.

ISSUED 2000-09 REVISED 2003-01 REAFFIRMED 2007-06

Copyright 2007 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)  
Fax: 724-776-0790

Tel: 724-776-4970 (outside USA)  
Email: CustomerService@sae.org

SAE WEB ADDRESS: <http://www.sae.org>

REV.  
B

AS91001

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NUMBER	NOM TUBE OD	D - NOMINAL THREAD	AF	E MIN	AB	K
MS9100-02	.125	.3125-24UNJF-3B	0.553 - 0.564	0.623	0.312 - 0.332	0.240 - 0.260
MS9100-03	.188	.3750-24UNJF-3B	0.616 - 0.627	0.694	0.375 - 0.395	0.240 - 0.260
MS9100-04	.250	.4375-20UNJF-3B	0.679 - 0.690	0.766	0.438 - 0.458	0.271 - 0.291
MS9100-05	.312	.5000-20UNJF-3B	0.741 - 0.752	0.836	0.500 - 0.520	0.271 - 0.291
MS9100-06	.375	.5625-18UNJF-3B	0.803 - 0.814	0.907	0.562 - 0.582	0.287 - 0.307
MS9100-07	.438	.6250-18UNJF-3B	0.865 - 0.877	0.978	0.625 - 0.645	0.287 - 0.307
MS9100-08	.500	.7500-16UNJF-3B	0.990 - 1.002	1.121	0.750 - 0.770	0.334 - 0.354
MS9100-09	.562	.8125-16UNJ-3B	1.052 - 1.064	1.191	0.812 - 0.832	0.334 - 0.354
MS9100-10	.625	.8750-14UNJF-3B	1.114 - 1.127	1.262	0.875 - 0.895	0.381 - 0.401
MS9100-11	.688	1.0000-12UNJF-3B	1.301 - 1.314	1.475	1.000 - 1.020	0.428 - 0.448
MS9100-12	.750	1.0625-12UNJ-3B	1.364 - 1.377	1.547	1.062 - 1.082	0.428 - 0.448
MS9100-14	.875	1.1875-12UNJ-3B	1.489 - 1.502	1.690	1.188 - 1.208	0.428 - 0.448
MS9100-16	1.000	1.3125-12UNJ-3B	1.614 - 1.627	1.833	1.312 - 1.332	0.428 - 0.448
MS9100-18	1.125	1.5000-12UNJ-3B	1.800 - 1.814	2.045	1.500 - 1.520	0.428 - 0.448
MS9100-20	1.250	1.6250-12UNJ-3B	1.926 - 1.940	2.189	1.625 - 1.645	0.428 - 0.448
MS9100-24	1.500	1.8750-12UNJ-3B	2.176 - 2.190	2.474	1.875 - 1.895	0.428 - 0.448
MS9100-28	1.750	2.2500-12UNJ-3B	2.549 - 2.564	2.899	2.250 - 2.270	0.428 - 0.448
MS9100-32	2.000	2.5000-12UNJ-3B	2.799 - 2.814	3.185	2.500 - 2.520	0.428 - 0.448

TABLE 1 - PART NUMBERS AND DIMENSIONS - CONTINUED

PART NUMBER	NOM TUBE OD	L MIN	M	N	P	T	J	APPROX. MASS LB/100
MS9100-02	.125	0.552	0.032 - 0.042	0.478 - 0.488	0.125	0.240	0.042 - 0.052	1.28
MS9100-03	.188	0.615	0.032 - 0.042	0.541 - 0.551	0.125	0.240	0.042 - 0.052	1.50
MS9100-04	.250	0.678	0.037 - 0.047	0.603 - 0.613	0.140	0.305	0.042 - 0.052	1.98
MS9100-05	.312	0.740	0.037 - 0.047	0.665 - 0.675	0.140	0.340	0.050 - 0.060	2.21
MS9100-06	.375	0.802	0.037 - 0.047	0.728 - 0.738	0.148	0.370	0.050 - 0.060	2.62
MS9100-07	.438	0.865	0.037 - 0.047	0.790 - 0.800	0.148	0.405	0.050 - 0.060	2.93
MS9100-08	.500	0.990	0.037 - 0.047	0.915 - 0.925	0.172	0.470	0.057 - 0.067	4.10
MS9100-09	.562	1.052	0.037 - 0.047	0.978 - 0.988	0.172	0.500	0.057 - 0.067	4.38
MS9100-10	.625	1.115	0.049 - 0.059	1.040 - 1.050	0.195	0.540	0.057 - 0.067	5.49
MS9100-11	.688	1.302	0.049 - 0.059	1.205 - 1.215	0.219	0.625	0.065 - 0.075	8.83
MS9100-12	.750	1.365	0.049 - 0.059	1.290 - 1.300	0.219	0.660	0.065 - 0.075	9.34
MS9100-14	.875	1.490	0.049 - 0.059	1.412 - 1.422	0.219	0.725	0.065 - 0.075	10.50
MS9100-16	1.000	1.615	0.049 - 0.059	1.536 - 1.546	0.219	0.790	0.065 - 0.075	11.65
MS9100-18	1.125	1.802	0.049 - 0.059	1.724 - 1.734	0.219	0.890	0.065 - 0.075	13.44
MS9100-20	1.250	1.928	0.049 - 0.059	1.849 - 1.859	0.219	0.960	0.065 - 0.075	14.78
MS9100-24	1.500	2.178	0.049 - 0.059	2.099 - 2.109	0.219	1.095	0.065 - 0.075	17.36
MS9100-28	1.750	2.552	0.049 - 0.059	2.473 - 2.483	0.219	1.295	0.065 - 0.075	21.48
MS9100-32	2.000	2.802	0.049 - 0.059	2.723 - 2.733	0.219	1.425	0.065 - 0.075	24.40