

SAE Executive Standards Committee 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 revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

REV.
A

AS9727™

RATIONALE

UPDATE LIGHTENING HOLE REQUIREMENTS PER LATEST AS1132, GENERAL NOTES UPDATE TO CURRENT E-25 PROCEDURES.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9727C. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL'S) MAY CONTINUE TO BE MANDATORY FOR DoD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

FEDERAL SUPPLY CLASS
5306

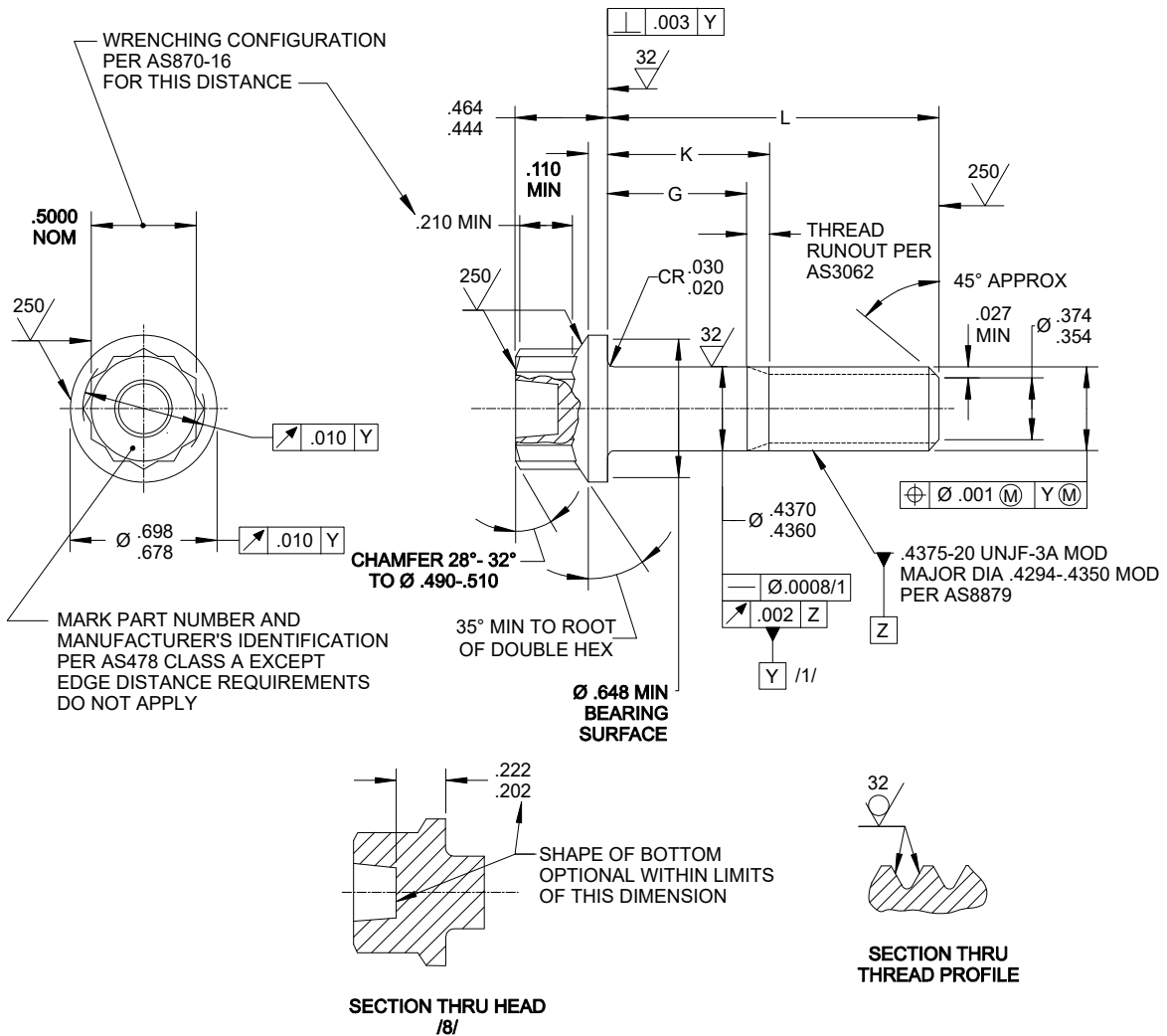


FIGURE 1 - BOLT

CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7471 /8/



AEROSPACE STANDARD

BOLT, MACHINE - DOUBLE HEXAGON, EXTENDED WASHER HEAD, CLOSE TOLERANCE SHANK, UNS N07001, 165 KSI, .4375-20 UNJF-3A

AS9727™
SHEET 1 OF 3

REV.
A

Documents

Copyright © 2026 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, or used for text and data mining, AI training, or similar technologies, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 1-877-606-7323 (U.S. and Canada only)

Fax: 724-776-0790

Tel: 1-724-776-4970 (outside U.S. and Canada)

Email: CustomerService@sae.org

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

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NO.	L	G MIN	K MAX	APPROX MASS LB/100	PART NO.	L	G MIN	K MAX	APPROX MASS LB/100
MS9727-03	.875-.895	.088	.198	6.38	MS9727-42	3.312-3.332	2.525	2.635	17.17
MS9727-04	.937-.957	.150	.260	6.66	MS9727-43	3.375-3.395	2.588	2.698	17.45
MS9727-05	.999-1.019	.212	.322	6.93	MS9727-44	3.437-3.457	2.650	2.760	17.73
MS9727-06	1.062-1.082	.275	.385	7.21	MS9727-45	3.499-3.519	2.712	2.822	18.00
MS9727-07	1.125-1.145	.338	.448	7.49	MS9727-46	3.562-3.582	2.775	2.885	18.28
MS9727-08	1.187-1.207	.400	.510	7.76	MS9727-47	3.625-3.645	2.838	2.948	18.56
MS9727-09	1.249-1.269	.462	.572	8.04	MS9727-48	3.687-3.707	2.900	3.010	18.83
MS9727-10	1.312-1.332	.525	.635	8.32	MS9727-49	3.749-3.769	2.962	3.072	19.11
MS9727-11	1.375-1.395	.588	.698	8.60	MS9727-50	3.812-3.832	3.025	3.135	19.39
MS9727-12	1.437-1.457	.650	.760	8.87	MS9727-51	3.875-3.895	3.088	3.198	19.67
MS9727-13	1.499-1.519	.712	.822	9.15	MS9727-52	3.937-3.957	3.150	3.260	19.94
MS9727-14	1.562-1.582	.775	.885	9.42	MS9727-53	3.999-4.019	3.212	3.322	20.22
MS9727-15	1.625-1.645	.838	.948	9.70	MS9727-54	4.062-4.082	3.275	3.385	20.50
MS9727-16	1.687-1.707	.900	1.010	9.98	MS9727-55	4.125-4.145	3.338	3.448	20.77
MS9727-17	1.749-1.769	.962	1.072	10.25	MS9727-56	4.187-4.207	3.400	3.510	21.05
MS9727-18	1.812-1.832	1.025	1.135	10.53	MS9727-57	4.249-4.269	3.462	3.572	21.32
MS9727-19	1.875-1.895	1.088	1.198	10.81	MS9727-58	4.312-4.332	3.525	3.635	21.60
MS9727-20	1.937-1.957	1.150	1.260	11.08	MS9727-59	4.375-4.395	3.588	3.698	21.88
MS9727-21	1.999-2.019	1.212	1.322	11.36	MS9727-60	4.437-4.457	3.650	3.760	22.16
MS9727-22	2.062-2.082	1.275	1.385	11.64	MS9727-61	4.499-4.519	3.712	3.822	22.43
MS9727-23	2.125-2.145	1.338	1.448	11.92	MS9727-62	4.562-4.582	3.775	3.885	22.71
MS9727-24	2.187-2.207	1.400	1.510	12.19	MS9727-63	4.625-4.645	3.838	3.948	22.99
MS9727-25	2.249-2.269	1.462	1.572	12.47	MS9727-64	4.687-4.707	3.900	4.010	23.26
MS9727-26	2.312-2.332	1.525	1.635	12.74	MS9727-65	4.749-4.769	3.962	4.072	23.54
MS9727-27	2.375-2.395	1.588	1.698	13.02	MS9727-66	4.812-4.832	4.025	4.135	23.82
MS9727-28	2.437-2.457	1.650	1.760	13.30	MS9727-67	4.875-4.895	4.088	4.198	24.09
MS9727-29	2.499-2.519	1.712	1.822	13.57	MS9727-68	4.937-4.957	4.150	4.260	24.37
MS9727-30	2.562-2.582	1.775	1.885	13.85	MS9727-69	4.999-5.019	4.212	4.322	24.64
MS9727-31	2.625-2.645	1.838	1.948	14.13	MS9727-70	5.062-5.082	4.275	4.385	24.92
MS9727-32	2.687-2.707	1.900	2.010	14.41	MS9727-71	5.125-5.145	4.338	4.448	25.20
MS9727-33	2.749-2.769	1.962	2.072	14.68	MS9727-72	5.187-5.207	4.400	4.510	25.48
MS9727-34	2.812-2.832	2.025	2.135	14.96	MS9727-73	5.249-5.269	4.462	4.572	25.75
MS9727-35	2.875-2.895	2.088	2.198	15.24	MS9727-74	5.312-5.332	4.525	4.635	26.03
MS9727-36	2.937-2.957	2.150	2.260	15.51	MS9727-75	5.375-5.395	4.588	4.698	26.31
MS9727-37	2.999-3.019	2.212	2.322	15.79	MS9727-76	5.437-5.457	4.650	4.760	26.58
MS9727-38	3.062-3.082	2.275	2.385	16.07	MS9727-77	5.499-5.519	4.712	4.822	26.86
MS9727-39	3.125-3.145	2.338	2.448	16.34	MS9727-78	5.562-5.582	4.775	4.885	27.14
MS9727-40	3.187-3.207	2.400	2.510	16.62					
MS9727-41	3.249-3.269	2.462	2.572	16.90					

	AEROSPACE STANDARD		AS9727™ SHEET 2 OF 3	REV. A
	BOLT, MACHINE - DOUBLE HEXAGON, EXTENDED WASHER HEAD, CLOSE TOLERANCE SHANK, UNS N07001, 165 KSI, .4375-20 UNJF-3A			

 **Documents**