

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

REV.
C

AS3420™

FEDERAL SUPPLY CLASS
5306

RATIONALE

UPDATE TO ASME Y14.5-2018. UPDATE LEAD THREAD CHAMFER TO AS1132. REVISE POSITION FCF ON MAJ DIA TO INCLUDE NEW DATUM C PER AS1132. REVISE LIGHTENING HOLE CONFIGURATION TO AS1132. REVISE HEAD TO SHANK FILLET TO CR. ADD "COMPOSITION SIMILAR TO" TO UNS IN NOTE 2. GENERAL EDITORIAL UPDATES.

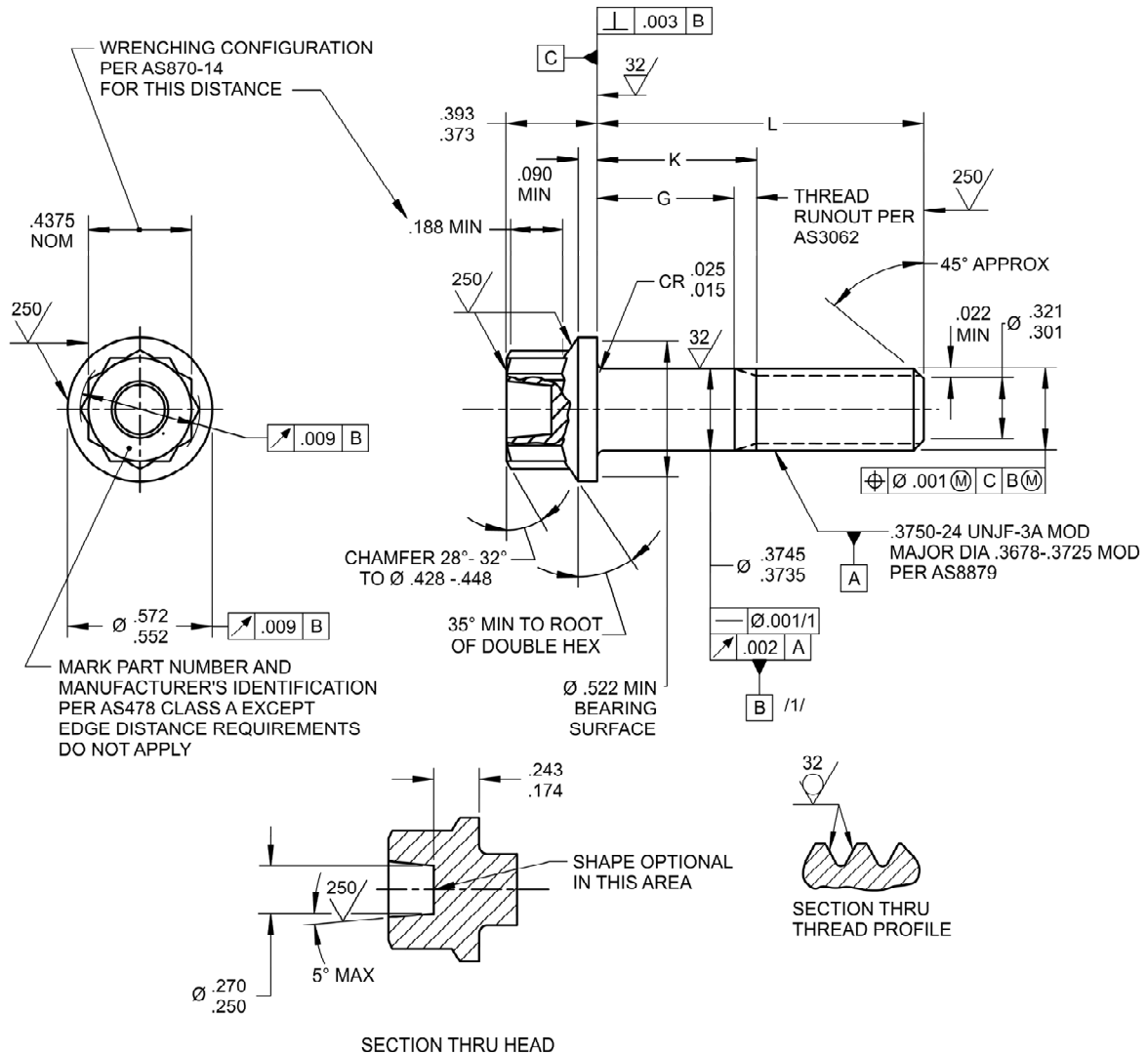
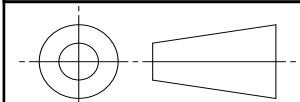


FIGURE 1 - BOLT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS3420C/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7467 /3/



AEROSPACE STANDARD

BOLT, MACHINE, DOUBLE HEX, EXTENDED WASHER HEAD, CLOSE TOL. SHANK, UNS N07718, 185 KSI MIN .3750-24 UNJF-3A (STRESS RUPTURE RESISTANT)

AS3420™
SHEET 1 OF 3

REV.
C

Documents

Copyright © 2022 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: +1 724-776-4970 (outside USA)
Email: CustomerService@sae.org

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

TABLE 1 - PART NUMBERS, DIMENSIONS L, G, K, AND APPROX MASS

PART NUMBER	L ±.010	G MIN	K MAX	APPROX MASS LB/100	PART NUMBER	L ±.010	G MIN	K MAX	APPROX MASS LB/100
AS3420-03	.848	.105	.198	4.18	AS3420-53	3.972	3.229	3.322	14.34
AS3420-04	.910	.167	.260	4.38	AS3420-54	4.035	3.292	3.385	14.55
AS3420-05	.972	.229	.322	4.58	AS3420-55	4.098	3.355	3.448	14.76
AS3420-06	1.035	.292	.385	4.79	AS3420-56	4.160	3.417	3.510	14.96
AS3420-07	1.098	.355	.448	5.00	AS3420-57	4.222	3.479	3.572	15.16
AS3420-08	1.160	.417	.510	5.20	AS3420-58	4.285	3.542	3.635	15.36
AS3420-09	1.222	.479	.572	5.40	AS3420-59	4.348	3.605	3.698	15.57
AS3420-10	1.285	.542	.635	5.60	AS3420-60	4.410	3.667	3.760	15.77
AS3420-11	1.348	.605	.698	5.81	AS3420-61	4.472	3.729	3.822	15.97
AS3420-12	1.410	.667	.760	6.01	AS3420-62	4.535	3.792	3.885	16.18
AS3420-13	1.472	.729	.822	6.21	AS3420-63	4.598	3.855	3.948	16.38
AS3420-14	1.535	.792	.885	6.42	AS3420-64	4.660	3.917	4.010	16.58
AS3420-15	1.598	.855	.948	6.62	AS3420-65	4.722	3.979	4.072	16.78
AS3420-16	1.660	.917	1.010	6.82	AS3420-66	4.785	4.042	4.135	16.99
AS3420-17	1.722	.979	1.072	7.02	AS3420-67	4.848	4.105	4.198	17.19
AS3420-18	1.785	1.042	1.135	7.23	AS3420-68	4.910	4.167	4.260	17.40
AS3420-19	1.848	1.105	1.198	7.44	AS3420-69	4.972	4.229	4.322	17.60
AS3420-20	1.910	1.167	1.260	7.64	AS3420-70	5.035	4.292	4.385	17.80
AS3420-21	1.972	1.229	1.322	7.84	AS3420-71	5.098	4.355	4.448	18.01
AS3420-22	2.035	1.292	1.385	8.04	AS3420-72	5.160	4.417	4.510	18.21
AS3420-23	2.098	1.355	1.448	8.25	AS3420-73	5.222	4.479	4.572	18.41
AS3420-24	2.160	1.417	1.510	8.45	AS3420-74	5.285	4.542	4.635	18.62
AS3420-25	2.222	1.479	1.572	8.65	AS3420-75	5.348	4.605	4.698	18.82
AS3420-26	2.285	1.542	1.635	8.86	AS3420-76	5.410	4.667	4.760	19.02
AS3420-27	2.348	1.605	1.698	9.06	AS3420-77	5.472	4.729	4.822	19.22
AS3420-28	2.410	1.667	1.760	9.26	AS3420-78	5.535	4.792	4.885	19.43
AS3420-29	2.472	1.729	1.822	9.47	AS3420-79	5.598	4.855	4.948	19.63
AS3420-30	2.535	1.792	1.885	9.67	AS3420-80	5.660	4.917	5.010	19.83
AS3420-31	2.598	1.855	1.948	9.87					
AS3420-32	2.660	1.917	2.010	10.08					
AS3420-33	2.722	1.979	2.072	10.28					
AS3420-34	2.785	2.042	2.135	10.48					
AS3420-35	2.848	2.105	2.198	10.69					
AS3420-36	2.910	2.167	2.260	10.89					
AS3420-37	2.972	2.229	2.322	11.09					
AS3420-38	3.035	2.292	2.385	11.30					
AS3420-39	3.098	2.355	2.448	11.50					
AS3420-40	3.160	2.417	2.510	11.70					
AS3420-41	3.222	2.479	2.572	11.90					
AS3420-42	3.285	2.542	2.635	12.11					
AS3420-43	3.348	2.605	2.698	12.31					
AS3420-44	3.410	2.667	2.760	12.52					
AS3420-45	3.472	2.729	2.822	12.72					
AS3420-46	3.535	2.792	2.885	12.92					
AS3420-47	3.598	2.855	2.948	13.13					
AS3420-48	3.660	2.917	3.010	13.33					
AS3420-49	3.722	2.979	3.072	13.53					
AS3420-50	3.785	3.042	3.135	13.74					
AS3420-51	3.848	3.105	3.198	13.94					
AS3420-52	3.910	3.167	3.260	14.14					



AEROSPACE STANDARD

BOLT, MACHINE, DOUBLE HEX, EXTENDED WASHER
HEAD, CLOSE TOL. SHANK, UNS N07718, 185 KSI MIN
.3750-24 UNJF-3A (STRESS RUPTURE RESISTANT)

AS3420™

SHEET 2 OF 3

REV.

