

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.

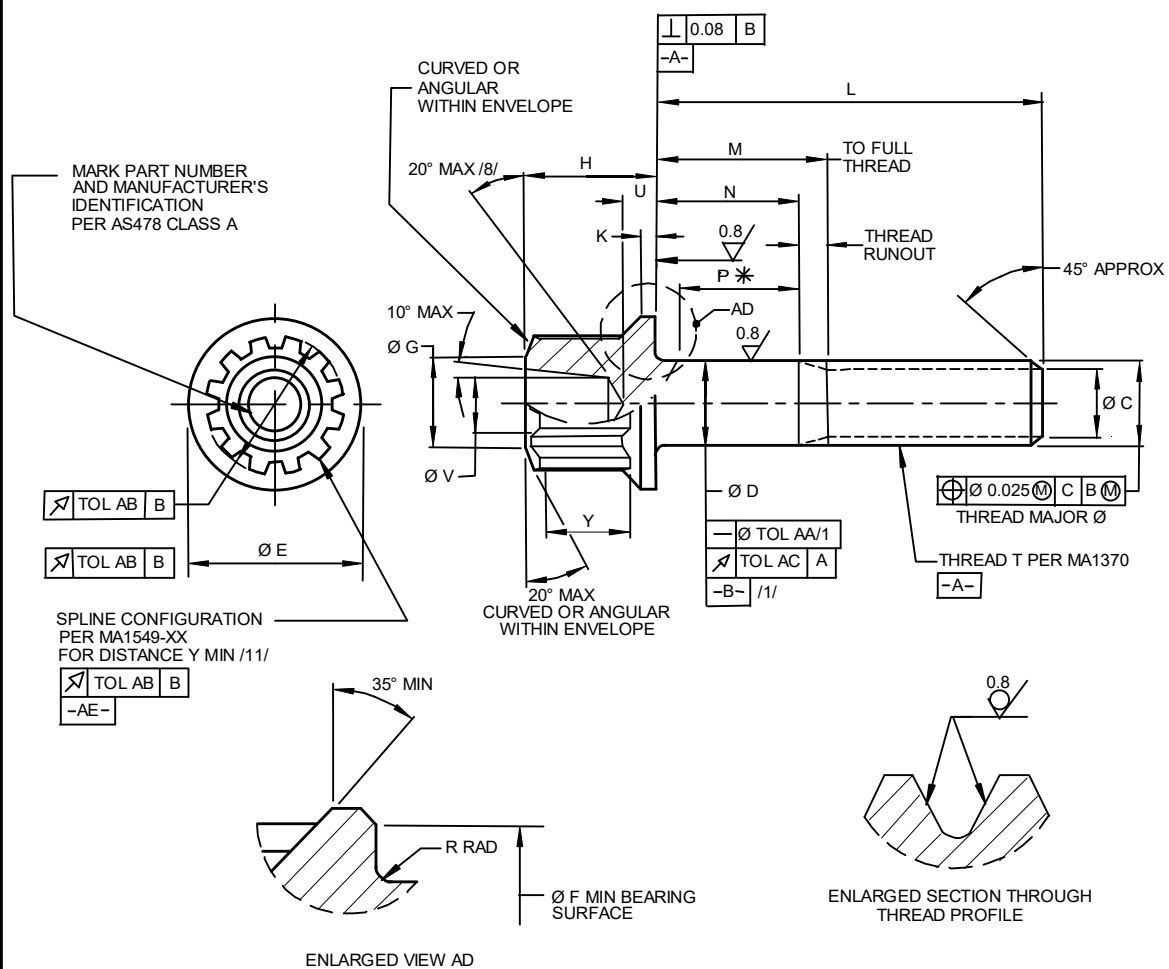
REV.
A

MA3447™

FEDERAL SUPPLY CLASS
5306

RATIONALE

FIGURE REDRAWN, USAGE NOTE ADDED, SPECS UPDATED.

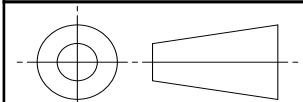


*WHEN SHANK LENGTH ($P = N - R$) IS LESS THAN THD NOM DIA, THE RUNOUT OF SHANK ΦD RELATIVE TO DATUM A SHALL BE MEASURED AT A DISTANCE OF HALF OF THE ACTUAL FULL SHANK LENGTH FROM END OF INCOMPLETE THREAD.

FIGURE 1

For more information on this standard, visit
<https://www.sae.org/standards/content/MA3447A/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25



METRIC AEROSPACE STANDARD

BOLT, MACHINE - SPLINE DRIVE HD
CLOSE TOL FULL SHANK,
AMS5662, METRIC

MA3447™
SHEET 1 OF 5

REV.
A

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 - DIMENSIONS

PART NUMBER SEE NOTE 9	NOM DIA REF	THREAD T		D f7 1/	WRENCHING CONFIGURATION DASH NO.	C
		DESIGNATION	MAJOR DIA MOD			
MA3447-050XXX	5	MJ5 x 0.8-4h6h MOD	4.850 - 4.953	4.978 - 4.990	07	3.0 - 4.0
MA3447-060XXX	6	MJ6 x 1-4h6h MOD	5.820 - 5.953	5.978 - 5.990	08	3.7 - 4.7
MA3447-070XXX	7	MJ7 x 1-4h6h MOD	6.820 - 6.947	6.972 - 6.987	09	4.7 - 5.7
MA3447-080XXX	8	MJ8 x 1-4h6h MOD	7.820 - 7.947	7.972 - 7.987	10	5.7 - 6.7
MA3447-100XXX	10	MJ10 x 1.25-4h6h MOD	9.788 - 9.947	9.972 - 9.987	12	7.4 - 8.4

NOM DIA REF	E MAX	F MIN	G MIN	H h15 1/	K MIN	R	U	V	Y MIN	AA	AB	AC
5	9.1	8.3	7	5.92 - 6.50	1.0	0.3 - 0.5	2.5 - 2.9	3.2 - 3.7	2.8	0.002	0.13	0.12
6	10.6	9.8	8	6.92 - 7.50	1.2	0.5 - 0.7	2.8 - 3.2	4.1 - 4.6	3.5	0.002	0.15	0.12
7	12.1	11.3	9	7.62 - 8.20	1.4	0.5 - 0.7	3.3 - 3.7	4.9 - 5.4	3.8	0.002	0.18	0.15
8	13.6	12.8	10	8.02 - 8.60	1.6	0.5 - 0.7	3.7 - 4.1	5.2 - 5.7	3.9	0.002	0.20	0.15
10	16.7	15.7	12	9.40 - 10.10	2.0	0.6 - 0.8	4.7 - 5.1	6.7 - 7.2	4.2	0.0015	0.25	0.15

1/ TOLERANCE GRADES TO ANSI B4.2-1978.

NOTES:

- FOR PART NUMBERS WHERE SHANK LENGTH IS EQUAL TO OR LESS THAN SHANK DIA D, THE THREAD DATUM **A** SHALL REPLACE DATUM **B**.
- MATERIAL: AMS5662 (COMPOSITION SIMILAR TO UNS N07718).
- FLUORESCENT PENETRANT INSPECTION: AMS2645. ACCEPTANCE CRITERIA PER MA3377.
- PROCUREMENT SPECIFICATION: MA3377.
- SURFACE TEXTURE: SYMBOLS PER ANSI Y14.36-1978; REQUIREMENTS PER ANSI/ASME B46.1-1985. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 3.2 MICROMETERS Ra.
- PART NUMBER SHALL INCLUDE THE STANDARD NUMBER AND THE DASH NUMBER TO INDICATE DIAMETER AND LENGTH OF UNTHREADED SHANK. EXAMPLE OF PART NUMBER:

MA3447-060012 = BOLT, MJ6 X 1 THREAD, 12 LONG UNTHREADED SHANK
MA3447-100025 = BOLT, MJ10 X 1.25 THREAD, 25 LONG UNTHREADED SHANK
- SHAPE OF LIGHTENING HOLE AT BOTTOM MAY BE FLAT OR CURVED WITHIN DIMENSIONS SHOWN.
- WRENCHING CONFIGURATION SHALL BE IN ACCORDANCE WITH MA1549 PER THE SPECIFIED DASH NUMBER IN TABLE 1.
- BREAK EDGES 0.1 TO 0.4, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONING AND TOLERANCING: ANSI Y14.5M-1982.
- DIMENSIONS ARE IN MILLIMETERS.
- DO NOT USE UNASSIGNED PART NUMBERS.
- REVISION INDICATOR: A CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT, INCLUDING TECHNICAL REVISIONS. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS, NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.

AS, MA, AND AMS ARE SAE PUBLICATIONS.
ANSI IS AN AMERICAN NATIONAL STANDARDS INSTITUTE PUBLICATION.

	METRIC AEROSPACE STANDARD		MA3447™ SHEET 2 OF 5	REV. Documents
	BOLT, MACHINE - SPLINE DRIVE HD CLOSE TOL FULL SHANK, AMS5662, METRIC			



Document Sharing Hub