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REV.
A

AS3652™

RATIONALE

FEDERAL SUPPLY CLASS
5325

FIGURE 1 UPDATED TO CORRECT REFERENCES TO LOCKING KEYS, DIM L DELETED. THREAD SPEC CORRECTED, CORRECT QPL NUMBER IN NOTE 14 AND MASS OF PARTS CORRECTED.

AS3652A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

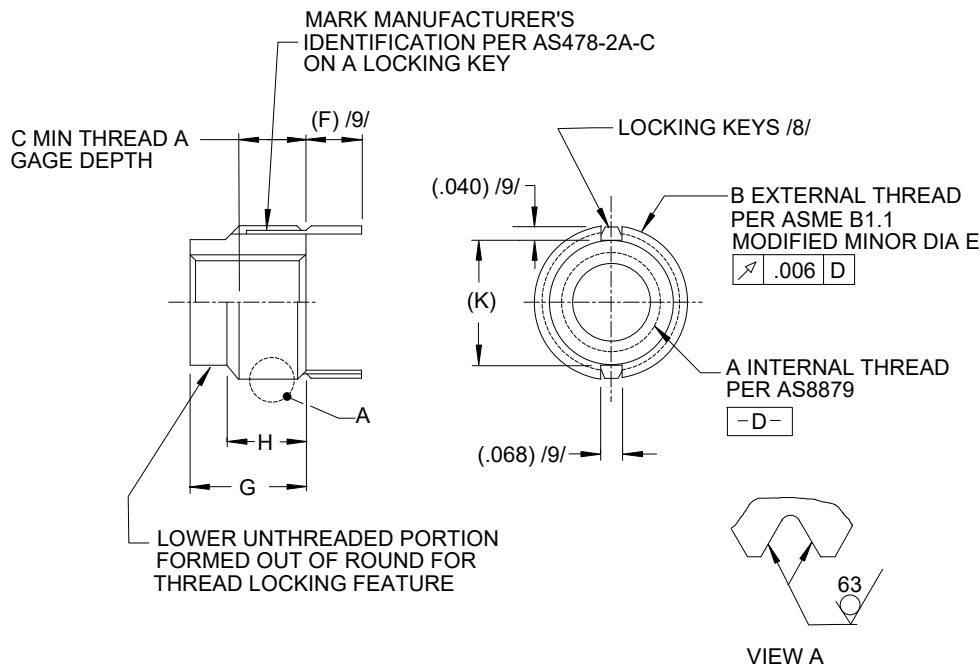


FIGURE 1 - INSERT

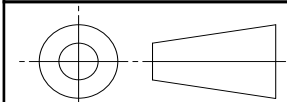
TABLE 1 - DIMENSIONS

PART NUMBER	A INTERNAL THREAD UNJF-3B	B EXTERNAL THREAD	E DIAMETER EXTERNAL THREAD MODIFIED MINOR	F REF	G	H	K REF	C MIN GAGE DEPTH
AS3652-3	.1900 - 32	.4375-14 UNC-3A	.375 - .383	.160	.335 - .365	.230 - .260	.344	.201
AS3652-4	.2500 - 28	.5000-13 UNC-3A	.432 - .440	.190	.385 - .415	.248 - .278	.407	.212
AS3652-5	.3125 - 24	.5625-12 UNC-3A	.495 - .503	.190	.465 - .495	.290 - .320	.469	.245
AS3652-6	.3750 - 24	.6250-11 UNC-3A	.551 - .565	.190	.525 - .555	.328 - .358	.532	.283
AS3652-7	.4375 - 20	.6875-12 UN-3A	.615 - .625	.190	.605 - .635	.380 - .410	.594	.323
AS3652-8	.5000 - 20	.8125-16 UN-3A	.744 - .752	.190	.665 - .695	.405 - .435	.720	.348

PART NUMBER	APPROX MASS LB/100
AS3652-3	.66
AS3652-4	1.01
AS3652-5	1.41
AS3652-6	1.78
AS3652-7	2.41
AS3652-8	3.46

For more information on this standard, visit
<https://www.sae.org/standards/content/AS3652A/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS5887



AEROSPACE STANDARD

INSERT, SCREW THREAD, SHORT, SELF-LOCKING,
KEY LOCKED, OVERSIZE
SELF-BROACHING KEYS, UNS S66286

AS3652™
SHEET 1 OF 2

REV.
A

Documents

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NOTES:

1. MATERIAL: INSERT - STEEL, CORROSION-RESISTANT, TYPE A286 (UNS S66286) IN ACCORDANCE WITH AMS5731, AMS5732, AMS5734, OR AMS5737.
LOCKING KEYS: STEEL, CORROSION-RESISTANT, TYPE 420 CRES. CHEMICAL COMPOSITION OF AMS5621.
2. HEAT TREATMENT: AMS5731, AMS5732, AMS5734 SHALL BE HEAT TREATED TO 140 000 PSI FTU MINIMUM PER AMS2759/3.
3. HARDNESS: INSERTS SHALL HAVE A HARDNESS RANGE OF 31 - 36 HRC
KEYS SHALL HAVE A HARDNESS RANGE OF 54 - 57 HRC
4. FINISH: ALL DIMENSIONS APPLY AFTER PLATING.
INSERTS:
PASSIVATE PER AMS2700 METHOD 1 OR 2.
SILVER PLATED PER AMS2411 ON THE INTERNAL THREADS ONLY WITH OPTIONAL COVERAGE ON COUNTERSINK. ON INSERTS WITH THREAD A OF .2500 OR LARGER THE PLATING THICKNESS SHALL BE .0002 TO .0006. INSERTS WITH THREAD A OF .1900 SHALL SHOW COMPLETE PLATING COVERAGE ON THE THREAD, PLATING THICKNESS NOT AN ACCEPTANCE REQUIREMENT.

LOCKING KEYS:
PASSIVATE PER AMS2700 METHOD 1 OR 2.
5. FLUORESCENT PENETRANT INSPECTION PER ASTM E1417/E1417M TYPE I, SENSITIVITY LEVEL 2, PRIOR TO PLATING.
6. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra. INTERNAL SCREW THREADS TO BE 63 MICROINCHES Ra.
7. DIMENSIONING AND TOLERANCING: ANSI Y14.5M-1982 (ASME PUBLICATION).
- /8/ INSERTS WITH INTERNAL THREAD SIZES .1900 AND .2500 SHALL BE SUPPLIED WITH TWO LOCKING KEYS SPACED 180 DEGREES APART. INSERTS WITH INTERNAL THREAD SIZE .3125 AND GREATER SHALL BE SUPPLIED WITH FOUR LOCKING KEYS SPACED 90 DEGREES APART.
- /9/ DIMENSION APPLIES TO LOCKING KEYS, SLOT CONFIGURATION PER MANUFACTURER'S OPTION, KEYS TO BE RETAINED IN SLOT UNTIL USE/INSTALLATION.
10. INSERTS SHALL BE FREE OF BURRS AND SLIVERS.
11. UNLESS OTHERWISE SPECIFIED, BREAK SHARP EDGES .015 MAXIMUM.
12. INSERTS TO BE INSTALLED IN ACCORDANCE WITH AS4724.
13. UNLESS OTHERWISE SPECIFIED, FILLETS R .015 MAXIMUM
14. PROCUREMENT SPECIFICATION: AS5887.
15. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY A QUALIFIED MANUFACTURER AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST PRI-QPL-AS3652 FOR THIS STANDARD. THIS PART STANDARD MAY BE RELEASED PRIOR TO A MANUFACTURER BEING APPROVED AND LISTED ON PRI-QPL-AS3652. IT IS THE USER'S RESPONSIBILITY TO ENSURE AN APPROVED MANUFACTURER IS LISTED PRIOR TO SPECIFYING ANY OF THESE PARTS FOR USAGE
16. UNDEFINED FEATURES ARE AT MANUFACTURER'S DISCRETION.
17. DESIGNED FOR USE IN MATERIALS WITH A MINIMUM ULTIMATE SHEAR STRENGTH OF 68 000 PSI.
18. 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 AND AMS ARE SAE INTERNATIONAL PUBLICATIONS.
ASME IS AN AMERICAN SOCIETY OF MECHANICAL ENGINEERS PUBLICATION.
ASTM IS AN ASTM INTERNATIONAL PUBLICATION.

	AEROSPACE STANDARD		AS3652™ SHEET 2 OF 2	REV. A
	INSERT, SCREW THREAD, SHORT, SELF-LOCKING, KEY LOCKED, OVERSIZE SELF-BROACHING KEYS, UNS S66286			