

REV. A

AS3406™

FEDERAL SUPPLY CLASS  
5306

RATIONALE

UPDATE THREAD SPECIFICATION TO AS8879, UPDATE TO ANSI Y14.5M-1982, REVISE FPI REQUIREMENTS TO ASTM E1417/E1417M, ADD EDGE DISTANCE EXCEPTION FOR HEAD MARKING, REVISE HEX DIMENSIONS TO CURRENT PRACTICE, ADD AS3062 FOR THREAD RUNOUT, FIGURE 1 REDRAWN, UPDATE REFERENCES, AND GENERAL EDITORIAL UPDATE.

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.

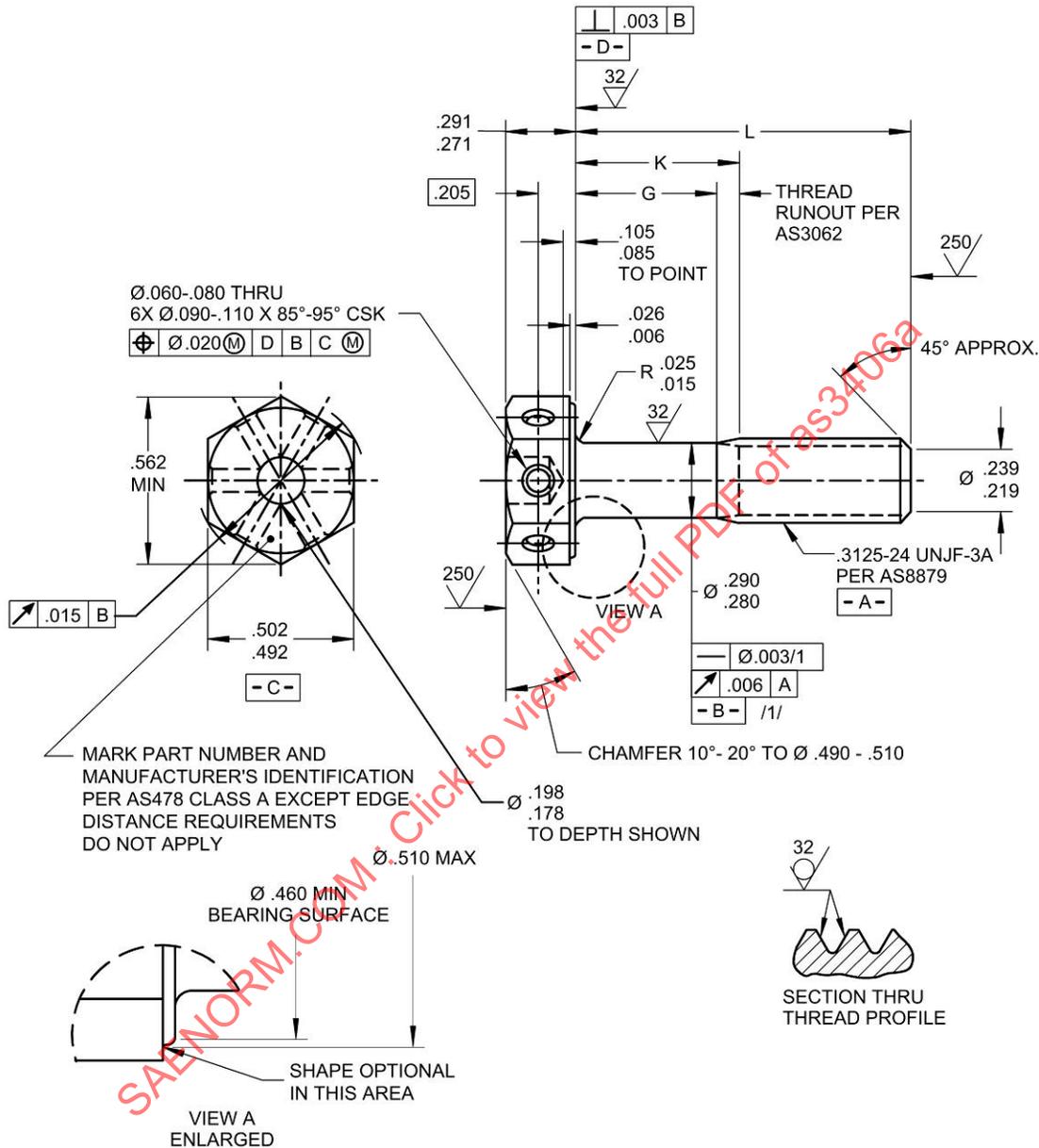
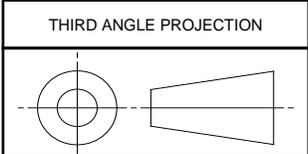


FIGURE 1 - BOLT

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS3406A>



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7471



**AEROSPACE STANDARD**

(R) BOLT, MACHINE - HEXAGON HEAD, DRILLED 6 HOLES, PD SHANK, AMS5708 (UNS N07001), .3125-24 UNJF-3A

AS3406™  
SHEET 1 OF 3

REV. A

ISSUED 1985-08 REAFFIRMED 2006-10 REVISED 2015-12

**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
AS3406-04	.490- .510	.025	.108	2.52	AS3406-34	2.740-2.760	1.732	1.875	6.75
AS3406-05	.552- .572	.025	.108	2.64	AS3406-35	2.865-2.885	1.857	2.000	6.99
AS3406-06	.615- .635	.025	.108	2.75	AS3406-36	2.990-3.010	1.982	2.125	7.21
AS3406-07	.678- .698	.025	.108	2.87	AS3406-37	3.115-3.135	2.107	2.250	7.45
AS3406-08	.740- .760	.025	.108	2.98	AS3406-38	3.240-3.260	2.232	2.375	7.69
AS3406-09	.802- .822	.025	.108	3.09	AS3406-39	3.365-3.385	2.357	2.500	7.93
AS3406-10	.865- .885	.025	.108	3.21	AS3406-40	3.490-3.510	2.482	2.625	8.16
AS3406-11	.928- .948	.025	.108	3.32	AS3406-41	3.615-3.635	2.607	2.750	8.40
AS3406-12	.990-1.010	.025	.125	3.44	AS3406-42	3.740-3.760	2.732	2.875	8.64
AS3406-13	1.052-1.072	.044	.188	3.55	AS3406-43	3.865-3.885	2.857	3.000	8.88
AS3406-14	1.115-1.135	.107	.250	3.66	AS3406-44	3.990-4.010	2.982	3.125	9.12
AS3406-15	1.178-1.198	.170	.312	3.79	AS3406-45	4.115-4.135	3.107	3.250	9.34
AS3406-16	1.240-1.260	.232	.375	3.90	AS3406-46	4.240-4.260	3.232	3.375	9.58
AS3406-17	1.302-1.322	.294	.438	4.02	AS3406-47	4.365-4.385	3.357	3.500	9.82
AS3406-18	1.365-1.385	.357	.500	4.14	AS3406-48	4.490-4.510	3.482	3.625	10.06
AS3406-19	1.428-1.448	.420	.562	4.25	AS3406-49	4.615-4.635	3.607	3.750	10.30
AS3406-20	1.490-1.510	.482	.625	4.38	AS3406-50	4.740-4.760	3.732	3.875	10.54
AS3406-21	1.552-1.572	.544	.688	4.49	AS3406-51	4.865-4.885	3.857	4.000	10.77
AS3406-22	1.615-1.635	.607	.750	4.62	AS3406-52	4.990-5.010	3.982	4.125	11.01
AS3406-23	1.678-1.698	.670	.812	4.73	AS3406-53	5.115-5.135	4.107	4.250	11.25
AS3406-24	1.740-1.760	.732	.875	4.85	AS3406-54	5.240-5.260	4.232	4.375	11.48
AS3406-25	1.802-1.822	.794	.938	4.97	AS3406-55	5.365-5.385	4.357	4.500	11.72
AS3406-26	1.865-1.885	.857	1.000	5.08	AS3406-56	5.490-5.510	4.482	4.625	11.95
AS3406-27	1.928-1.948	.920	1.062	5.20	AS3406-57	5.615-5.635	4.607	4.750	12.19
AS3406-28	1.990-2.010	.982	1.125	5.32	AS3406-58	5.740-5.760	4.732	4.875	12.43
AS3406-29	2.115-2.135	1.107	1.250	5.56	AS3406-59	5.865-5.885	4.857	5.000	12.67
AS3406-30	2.240-2.260	1.232	1.375	5.80	AS3406-60	5.990-6.010	4.982	5.125	12.91
AS3406-31	2.365-2.385	1.357	1.500	6.03					
AS3406-32	2.490-2.510	1.482	1.625	6.27					
AS3406-33	2.615-2.635	1.607	1.750	6.51					

NOTES:

- FOR PART NUMBERS AS3406-04 THRU AS3406-19 DATUM A SHALL REPLACE DATUM B.
- MATERIAL: AMS5708 CORROSION AND HEAT RESISTANT NICKEL ALLOY (COMPOSITION SIMILAR TO UNS N07001).
- PROCUREMENT SPECIFICATION: AS7471.
- FLUORESCENT PENETRANT INSPECTION PER ASTM E1417/E1417M, TYPE 1, SENSITIVITY LEVEL 2 MIN.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra. EXCEPT UPSET HEAD TO BE 250 MICROINCHES Ra.
- BREAK SHARP EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: ANGULAR DIMENSIONS ±5°.
- DIMENSIONS AND TOLERANCING ANSI Y14.5M-1982 (ASME PUBLICATION).

	<b>AEROSPACE STANDARD</b>	<b>AS3406™</b> SHEET 2 OF 3	<b>REV.</b> <b>A</b>
	(R) BOLT, MACHINE - HEXAGON HEAD, DRILLED 6 HOLES, PD SHANK, AMS5708 (UNS N07001), .3125-24 UNJF-3A		