

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.
B

AS3143

FEDERAL SUPPLY CLASS
5307

RATIONALE

REVISE THREAD SPECIFICATION TO AS8879, UPDATE FPI REQUIREMENTS, REDRAW TABLE TO DELETE METRIC DUAL DIMENSIONING, REFERENCES UPDATED WHERE REQUIRED.

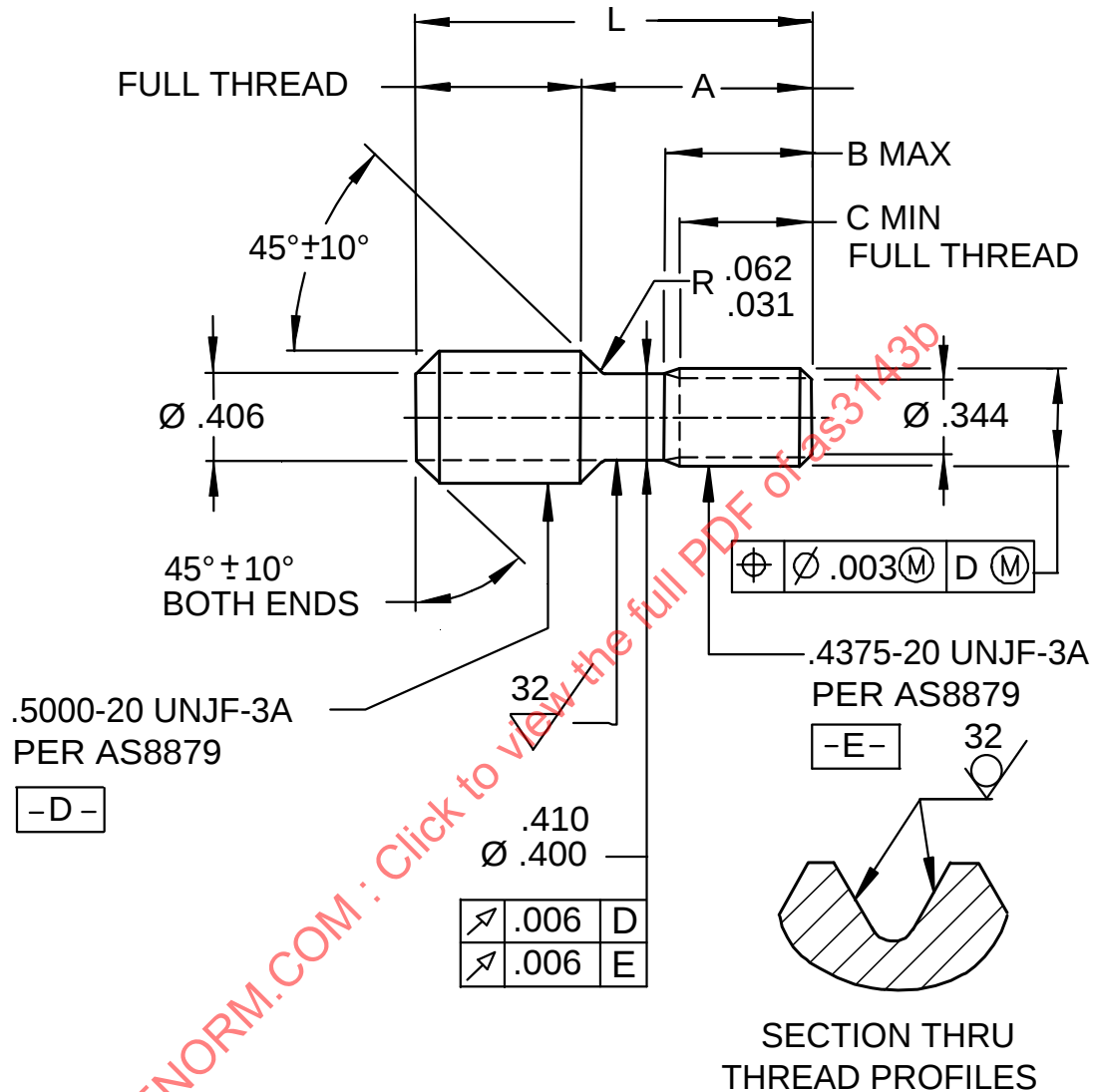
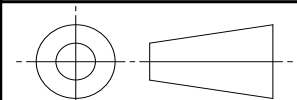


FIGURE 1

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS3143B>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7477



AEROSPACE STANDARD

(R) STUD, STEPPED - 2.5 DIA ENGAGEMENT, PD SHANK, AMS5731
.5000-20 UNJF-3A X .4375-20 UNJF-3A

AS3143
SHEET 1 OF 3

REV.
B

TABLE 1

PART NUMBER	L	A	B MAX	C MIN	APPROX MASS LB/100
AS3143-05	1.990 - 2.010	.740 - .760	.648	.548	9.10
AS3143-06	2.115 - 2.135	.865 - .885	.773	.673	9.60
AS3143-07	2.240 - 2.260	.990 - 1.010	.850	.750	10.10
AS3143-08	2.365 - 2.385	1.115 - 1.135	.850	.750	10.60
AS3143-09	2.490 - 2.510	1.240 - 1.260	.850	.750	11.10
AS3143-10	2.615 - 2.635	1.365 - 1.385	.850	.750	11.60
AS3143-11	2.740 - 2.760	1.490 - 1.510	.850	.750	12.10
AS3143-12	2.865 - 2.885	1.615 - 1.635	.850	.750	12.60
AS3143-13	2.990 - 3.010	1.740 - 1.760	.850	.750	13.10
AS3143-14	3.115 - 3.135	1.865 - 1.885	.850	.750	13.60
AS3143-15	3.240 - 3.260	1.990 - 2.010	.850	.750	14.10
AS3143-16	3.365 - 3.385	2.115 - 2.135	.850	.750	14.60
AS3143-17	3.490 - 3.510	2.240 - 2.260	.850	.750	15.10
AS3143-18	3.615 - 3.635	2.365 - 2.385	.850	.750	15.60
AS3143-19	3.740 - 3.760	2.490 - 2.510	.850	.750	16.10
AS3143-20	3.865 - 3.885	2.615 - 2.635	.850	.750	16.60
AS3143-21	3.990 - 4.010	2.740 - 2.760	.850	.750	17.10
AS3143-22	4.115 - 4.135	2.865 - 2.885	.850	.750	17.60
AS3143-23	4.240 - 4.260	2.990 - 3.010	.850	.750	18.10
AS3143-24	4.365 - 4.385	3.115 - 3.135	.850	.750	18.60
AS3143-25	4.490 - 4.510	3.240 - 3.260	.850	.750	19.10
AS3143-26	4.615 - 4.635	3.365 - 3.385	.850	.750	19.60
AS3143-27	4.740 - 4.760	3.490 - 3.510	.850	.750	20.10
AS3143-28	4.865 - 4.885	3.615 - 3.635	.850	.750	20.60
AS3143-29	4.990 - 5.010	3.740 - 3.760	.850	.750	21.10
AS3143-30	5.115 - 5.135	3.865 - 3.885	.850	.750	21.60
AS3143-31	5.240 - 5.260	3.990 - 4.010	.850	.750	22.10
AS3143-32	5.365 - 5.385	4.115 - 4.135	.850	.750	22.60
AS3143-33	5.490 - 5.510	4.240 - 4.260	.850	.750	23.10
AS3143-34	5.615 - 5.635	4.365 - 4.385	.850	.750	23.60
AS3143-35	5.740 - 5.760	4.490 - 4.510	.850	.750	24.10
AS3143-36	5.865 - 5.885	4.615 - 4.635	.850	.750	24.60

NOTES:

1. MATERIAL: CORROSION AND HEAT RESISTANT STEEL AMS5731.
2. PROCUREMENT SPECIFICATION AS7477: EXCEPT REQUIREMENTS RELATED TO BOLT HEADS NOT APPLICABLE.
3. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra
4. FLUORESCENT PENETRANT INSPECTION PER ASTM E1417/E1417M TYPE 1. SENSITIVITY LEVEL 2 MIN.
5. BREAK SHARP EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
6. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS $\pm .010$
7. DIMENSIONING AND TOLERANCING: ANSI Y14.5M-1982 (ASME PUBLICATION).
8. MARK PART NUMBER PER AS478-37.
9. DO NOT USE UNASSIGNED PART NUMBERS.

	AEROSPACE STANDARD	AS3143 SHEET 2 OF 3	REV. B
	(R) STUD, STEPPED - 2.5 DIA ENGAGEMENT, PD SHANK, AMS5731 .5000-20 UNJF-3A X .4375-20 UNJF-3A		