

REV.  
C

AS3089™

RATIONALE

FIGURE 1 REDRAWN TO ASME Y14.5-2018, USAGE NOTE ADDED, SPECS UPDATED, THREAD END CHAMFERS ALTERED TO AS1132 STANDARD.

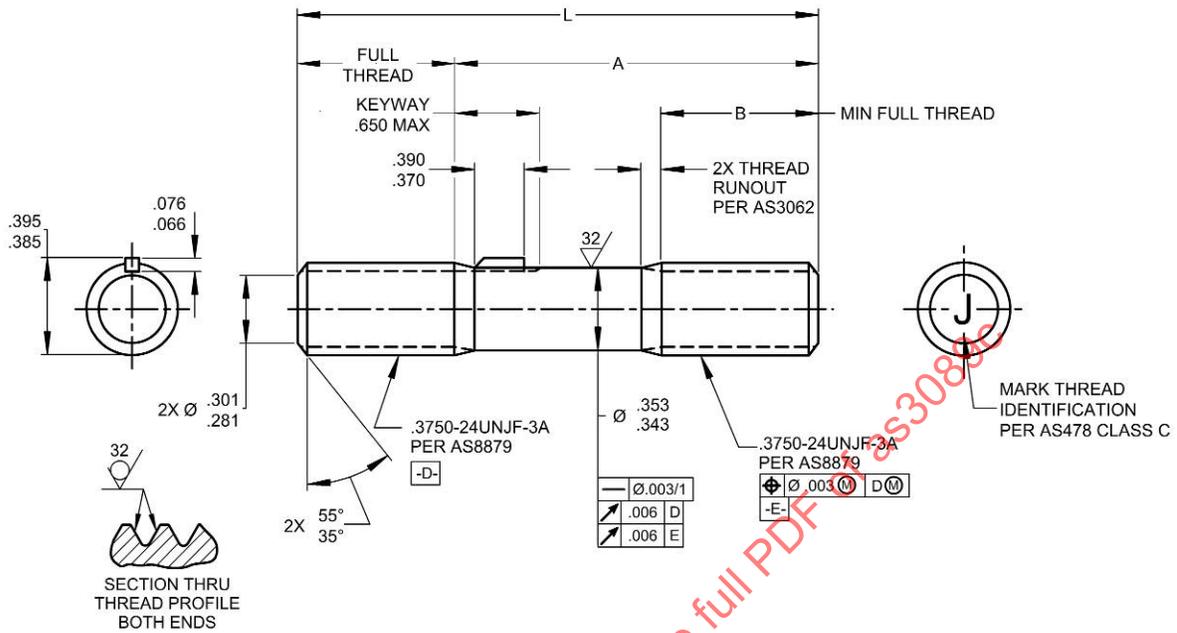
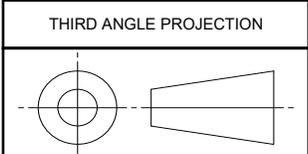


FIGURE 1 - STUD

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NUMBERS	L	A	B MIN /a/	APPROX MASS LB/100
AS3089-01	1.428-1.448	.678- .698	.562	3.88
AS3089-02	1.490-1.510	.740- .760	.625	4.04
AS3089-03	1.552-1.572	.802- .822	.688	4.21
AS3089-04	1.615-1.635	.865- .885	.688	4.38
AS3089-05	1.678-1.698	.928- .948	.688	4.55
AS3089-06	1.740-1.760	.990-1.010	.688	4.72
AS3089-07	1.802-1.822	1.052-1.072	.688	4.89
AS3089-08	1.834-1.854	1.083-1.103	.812	4.97
AS3089-09	1.865-1.885	1.115-1.135	.688	5.06
AS3089-10	1.928-1.948	1.178-1.198	.812	5.22
AS3089-11	1.990-2.010	1.240-1.260	.688	5.39
AS3089-12	2.052-2.072	1.302-1.322	.688	5.56

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS3089C/>



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7452 /4/



**AEROSPACE STANDARD**

STUD, STRAIGHT, KEY LOCKED,  
 CADMIUM PLATED, STEEL, UNS G87400  
 .3750-24 UNJF-3A X .3750-24 UNJF-3A

AS3089™  
 SHEET 1 OF 3

REV.  
**C**

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.

**TABLE 1 - PART NUMBERS AND DIMENSIONS (CONTINUED)**

PART NUMBERS	L	A	B MIN /a/	APPROX MASS LB/100
AS3089-13	2.115-2.135	1.365-1.385	.688	5.73
AS3089-14	2.178-2.198	1.428-1.448	.688	5.90
AS3089-15	2.240-2.260	1.490-1.510	.688	6.07
AS3089-16	2.302-2.322	1.552-1.572	.688	6.23
AS3089-17	2.365-2.385	1.615-1.635	.688	6.40
AS3089-18	2.428-2.448	1.678-1.698	.688	6.57
AS3087-19	2.490-2.510	1.740-1.760	.688	6.74
AS3089-20	2.615-2.635	1.865-1.885	.688	7.08
AS3089-21	2.740-2.760	1.990-2.010	.688	7.41
AS3089-22	2.865-2.885	2.115-2.135	.688	7.75
AS3089-23	2.990-3.010	2.240-2.260	.688	8.09
AS3089-24	3.115-3.135	2.365-2.385	.688	8.42
AS3089-25	3.240-3.260	2.490-2.510	.688	8.76
AS3089-26	3.365-3.385	2.615-2.635	.688	9.10
AS3089-27	3.490-3.510	2.740-2.760	.688	9.44
AS3089-28	3.615-3.635	2.865-2.885	.688	9.77
AS3089-29	3.740-3.760	2.990-3.010	.688	10.11
AS3089-30	3.865-3.885	3.115-3.135	.688	10.45
AS3089-31	3.990-4.010	3.240-3.260	.688	10.78
AS3089-32	4.115-4.135	3.365-3.385	.688	11.12
AS3089-33	4.240-4.260	3.490-3.510	.688	11.46
AS3089-34	4.365-4.385	3.615-3.635	.688	11.79
AS3089-35	4.490-4.510	3.740-3.760	.688	12.13
AS3089-36	4.615-4.635	3.865-3.885	.688	12.47
AS3089-37	4.740-4.760	3.990-4.010	.688	12.81
AS3089-38	4.865-4.885	4.115-4.135	.688	13.14

/a/ DIMENSION "B" FOR -08 AND -10 MEETS THE REQUIREMENTS OF AND20002, AND20004, AND20006, AND20007.

NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

1. MATERIAL: STUD - LOW ALLOY STEEL PER AMS6322 (COMPOSITION SIMILAR TO UNS G87400).  
KEY - CORROSION RESISTANT STEEL PER AMS5688 (COMPOSITION SIMILAR TO UNS S30500).
2. HARDNESS: STUD - 26 TO 32 HRC.  
KEY - AS RECEIVED.
3. FINISH: STUD - CADMIUM PLATE PER AMS2400. DIMENSIONS ARE AFTER PLATING.  
KEY - NONE.
- /4/ PROCUREMENT SPECIFICATION: AS7452. REQUIREMENTS RELATED TO BOLT HEADS ARE NOT APPLICABLE.
5. MAGNETIC PARTICLE INSPECTION PER ASTM E1444/E1444M.
6. THE INSTALLED STUD SHALL HAVE A MINIMUM RESISTANCE TO TORQUE OUT OF 240 LBF-IN.
7. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.

	<b>AEROSPACE STANDARD</b>	<b>AS3089™</b> SHEET 2 OF 3	<b>REV.</b> <b>C</b>
	STUD, STRAIGHT, KEY LOCKED, CADMIUM PLATED, STEEL, UNS G87400 .3750-24 UNJF-3A X .3750-24 UNJF-3A		