

Title

08/84/2

10/84(3)09/85

BOLT, 100° HEAD, TRI-WING RECESS, CLOSE TOLERANCE, 6AL-4V TITANIUM ALLOY,

AIRBUS-INDUSTRIE

Form: AIF 8001

Approved

Issue: 04/84 Revision(1) Published and distributed by: AIRBUS-INDUSTRIE 31700 BLAGNAC

FRANCE

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Classification

	:Dia.:	и Сэ	uge	W Gauge Di	a.: E		M	: P(d)	•	R R	ad.
		Protrus			:	:	±.010			:	
	:No. :			(+0,005)	: Max.	: (:	±0,25)	: (+0,25): M	lax.:	Min. :
	: ::	.0556:	.0025	1.0026	: .034	:	.218	: .141	:	.030:	.015:
(3)	: 9:	(1,412):	(0,064)	(25,466)	: (0,86)	: (5,54)	: (3,58)	: (0	,76):	(0,38):
\circ	::	.0649:			: .038	: -	.249	: .141	: -	.030:	.015:
	: 10 :	(1,648):	(0,069)	: (28,250)	: (0,965)	: (6,32)	: (3,58)	: (0	,76):	(0,38):
	::	.0738:			: .044	:	.252	: .141	-:-	.030:	.015
	: 12 :	(1,874):	(0,079)	: (34,133)	: (1,118)	: (6,40)	: (3,58)	: (0	76):	(0,38)
	: ::	:		:	:	:		:	:	:	
	: :	:		:	:	:		:	:	:	

	TABL	E 1	DIMEN	NSIONS.	((CONTINU	EI	D)		2000-0100-01	_ = <u>= (0500-44</u>)	
	:Dia.	:	T :	TD	D:	ia.	:	U	:			:
	:Dash	: :	±.010:		:		:		: 1	(f):	Z(g):	:
	:No.	: (±				Min.				:		:
_	: 9	:									.002:	
(3)	: 9	: (2	1,34):	(14,10):	(13,97)	:	(1,73)	: ((,15):	(0,05)	:
\circ	: 10	:									.002	
	: 10	: (2	2,91):								(0,05)	
	: 12	:	1.041	.74	3:	.737	:	.078	:	.006:	.002	:
	: 12	: (2	6,44)	(18,87):	(18,72)	:	(1,98)	: ((),15):	(0,05)	:
	:	:			:		:		:	:		:
	:	:	1	:	:		:		:			:

PROCUREMENT SPECIFICATION: NAS4004 EXCEPT FOR PROTECTIVE TREATMENT AND LUBRICATION

(c), (d), ETC.: SEE NOTES ON PAGE 03.

Classification

ABS 0113
Page 02

Form: AIF 8002

Issue: 04/84

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Material:	6AL-4V	Titanium	Alloy	per	AMS4928	or	AMS4967.
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Heat Treat: 160 to 180 KSI (1100 to 1240 N/mm²) Ultimate Tensile. 95 KSI (655 N/mm²) Min. Ultimate Shear.

Finish: Bolts to be coated with Aluminium (IVD) to MIL-C-83488 Type II Class 3 to be identified with Blue Dye on thread end of bolt plus chamfer.

"Grip" dimension equals grip dash number times .0625 (1,588). "Length" equals "Grip" plus "T" (See page 02).

Example of Part Number e.g. for a .625 (15,88) dia. bolt with undrilled shank and .625 (15,88) grip the part number is:-

Replace dash "-" after basic part number with "D" for bolt with drilled shank.

e.g. For a .750 (19,05) dia. bolt with a drilled shank and .750 (19,05) grip the part number is:-

NOTES:

- a. 'Grip' of bolt shall be measured from the top of bolt head to the end of the full cylindrical portion of the shank.
- b. Dimensions A, A' and B are included for engineering reference only and are not to be used for Inspection. Values A, A' and B are calculated limits resulting from tolerances on W, H, E and Head Angle.
- c. Dimensions for H gauge protrusion shall be inspected per NAS527.
- d. Cotter pin hole centre line: within .010 (0,25) and normal within 2° of bolt centre line.
- e. Surface texture : on shank, conical surface of head, thread flanks and thread root 32/ (0,8 microns); other surfaces 125/ (3,2 microns)
- f. Concentricity: Conical surface of head to shank diameter within .003 (0,076) TIR. "D" dia. to thread pitch dia. within "Y" TIR.
- g. Shank straightness: within "Z" TIR per inch (25,4 mm) of length.

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RESTRICTED USAGE: FOR REPAIR WORK ONLY

.0156 (0,396) and .0312 (0,792) OVERSIZE SHANK FOR REPLACEMENT OF BOLTS SHOWN ON PAGE 01.

Head Marking: Same as shown on page 01

Plus identification for oversize, as applicable,

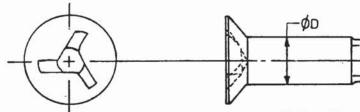
to be included in second sector.

Identify .0156 (0,396) oversize by "X".

Identify .0312 (0,792) oversize by "Y". See pages 01 thru 03 for dimensions not shown.

Head height dimensions (B Max.)
are reduced with oversize shanks.
Reduction is: .0065 (0,165) for .0156 (0,396)
Oversize Bolts
.0130 (0,330) for .0312 (0,792)

Oversize Bolts.



Major diameter of threads may conform to "TD" on page 02 or to MIL-S-8879.

TABLE	II	OVERSIZE	PART	NUMBERS	AND	DIMENSIONS

:	Basic	:Nominal	:D Diamete	er .0156 (0	,396) Over	size Shank
:	Part No.	:Thread :Size	Before	Coating	After	Coating
:	.0156 (0,396)		:	:	:	:
:	Oversize	:	: Max.	: Min.	: Max.	: Min.
) :	ABS0113-9-**X	:.5625-18	: .5763	: .5757	: .5771	: .5761
٠.		:	: (14,638)	: (14,623)	: (14,658)	: (14,633)
:	ABS0113-10-**X	:.6250-18	: .6388	: .6382	: .6396	: .6389
:	171171777.17179.20 1745 174 			: (16,210)		: (16,228)
	ABS0113-12-**X					
:				: (19,385)	: (19,421)	: (19,395)
	.0312 (0,792) Oversize	:	D Diamete	er .0312 (0	,792) Over	size Shan
) :	ABS0113-9-**Y	:.5625-18	: .5919	: .5913	: .5927	: .5917
٠.		:	: (15,034)	: (15,019)	: (15,055)	: (15,029)
	ABS0113-10-**	:.6250-18	: .6544	: .6538	: .6552	: .6542
	:			: (16,607)		
:			7704	7700	: .7802	7702
	ABS0113-12-**	:.7500-16	: .//94	: .//00	/002	: .7792

* Grip Dash Number in .0625 (1,588) increments.

For material, finish and procurement information, see page 03.

Examples of part number

Issue: 04/84

.0156 (0,396) oversize = ABS0113-10-**X

.0312 (0,792) oversize = ABS0113-10-**Y

Revision:

Grip Length_:

09/85

ABS0113

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