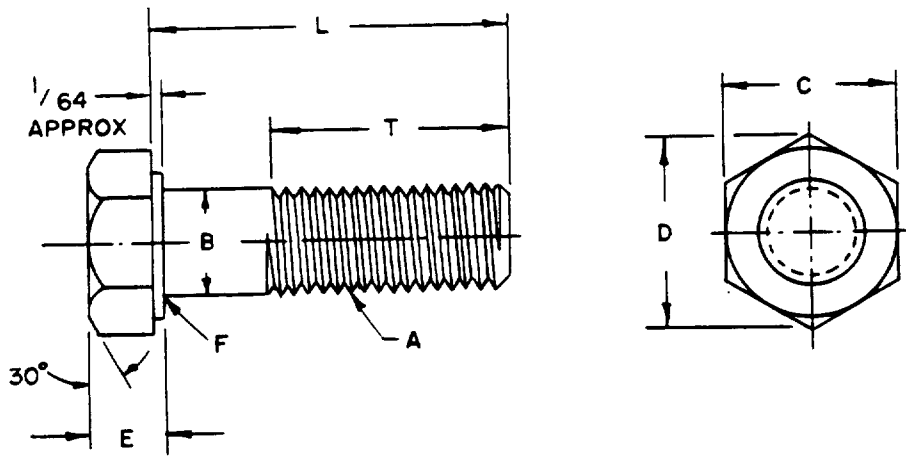


This standard has been approved by the Naval Ship Engineering Center, Department of the Navy, and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

FED. SUP. CLASS
5306



(Project 5306-NO11Sh) (A) For changes see sheets 1 through 4

CUSTODIANS	OTHER INT.	MILITARY STANDARD	MS 16206 (SHIPS)
Ships	A - N - AF -	BOLTS, MACHINE, HEXAGON HEAD, REGULAR SEMI-FINISHED, ALUMINUM ALLOY, UNC-2A	
Procurement Specification MIL-B-857		NONMAGNETIC	SHEET 1 OF 4

DD FORM 672
1 OCT 52

APPROVED 8 MAY 1957 REVISED (A) 19 AUGUST 1966

This standard has been approved by the Naval Ship Engineering Center, Department of the Navy, and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

Nominal size		1/4	5/16	3/8	7/16
(A) Threads per inch		20-UNC2A 0.350	18-UNC2A 0.312	16-UNC2A 0.375	14-UNC2A 0.425
(B) Body diameter	Max.	0.350	0.312	0.375	0.425
	Min.	0.347	0.309	0.372	0.422
(C) Width across flats	Max.	0.425	0.375	0.450	0.500
	Min.	0.422	0.372	0.447	0.497
(D) Width across corners	Max.	0.500	0.450	0.525	0.575
	Min.	0.497	0.447	0.522	0.572
(E) Head height	Max.	0.183	0.195	0.226	0.272
	Min.	0.180	0.192	0.223	0.269
(F) Radius	Max.	0.031	0.031	0.031	0.031
	Min.	0.008	0.008	0.008	0.008
Tolerance		MS part No.	FIIN part No.	MS part No.	FIIN part No.
Size 1/4 - 3/8		1	25	45	71
Size 5/8 - 1-1/4		2	26	46	72
Size 1-1/2		3	27	47	73
Size 1-3/4		4	28	48	74
Size 2		5	29	49	75
Size 2-1/4		6	30	50	76
Size 2-1/2		7	31	51	77
Size 2-3/4		8	32	52	78
Size 3		9	33	53	79
Size 3-1/4		10	34	54	80
Size 3-1/2		11	35	55	81
Size 3-3/4		12	36	56	82
Size 4		13	37	57	83
Size 4-1/4		14	38	58	84
Size 4-1/2		15	39	59	85
Size 4-3/4		16	40	60	86
Size 5		17	41	61	87
Size 5-1/4		18	42	62	88
Size 5-1/2		19	43	63	89
Size 5-3/4		20	44	64	90
Size 6		21	45	65	91
Size 6-1/4		22	46	66	92
Size 6-1/2		23	47	67	93
Size 6-3/4		24	48	68	94
Size 7		25	49	69	95
Size 7-1/4		26	50	70	96
Size 7-1/2		27	51	71	97
Size 7-3/4		28	52	72	98
Size 8		29	53	73	99
Size 8-1/4		30	54	74	100
Size 8-1/2		31	55	75	101
Size 8-3/4		32	56	76	102
Size 9		33	57	77	103
Size 9-1/4		34	58	78	104
Size 9-1/2		35	59	79	105
Size 9-3/4		36	60	80	106
Size 10		37	61	81	107
Size 10-1/4		38	62	82	108
Size 10-1/2		39	63	83	109
Size 10-3/4		40	64	84	110
Size 11		41	65	85	111
Size 11-1/4		42	66	86	112
Size 11-1/2		43	67	87	113
Size 11-3/4		44	68	88	114
Size 12		45	69	89	115

FED. SUP. CLASS
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CUSTODIANS		OTHER INT.		MILITARY STANDARD		MS16206 (SHIPS)					
Ships		AF -									
PRODUCED BY SPECIFICATION		SUPERSEDES:									
MIL-B-857		BOLTS, MACHINE, HEXAGON HEAD, REGULAR SEMI-FINISHED, ALUMINUM ALLOY, UNC-2A, NONMAGNETIC		SHEET 3		OF 4					

SHEET 9 OF 8

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- (A) Material: Aluminum alloy shall be 6061 of QQ-A-200/8.
 (A) Protective coating: Anodize in accordance with MIL-C-5541 or MIL-A-8625.
 Threads: Threads shall be UNC-2A in accordance with Handbook H28.
 Thread length: Minimum thread length shall be twice the nominal size (diameter) plus 1/4 inch for bolt lengths 6 inches and less, and twice the nominal size plus 1/2 inch for bolt lengths over 6 inches. Bolts too short for minimum thread length shall be threaded as close to the head as practicable.
 Dimensions: All dimensions are in inches, unless otherwise specified.

Notes:

1. In the case of conflict with any document referenced herein, this standard shall govern.
2. Referenced documents shall be the issue in effect on date of invitation for bids.

APPROVED 8 MAY 1957 REVISED (A) For changes see sheets 1 through 4

CUSTODIANS		OTHER INT.		MILITARY STANDARD		MS16206 (SHIPS)
Ships		A - N - AF -		BOLTS, MACHINE, HEXAGON HEAD, REGULAR SEMI-FINISHED, ALUMINUM ALLOY, UNC-2A		
Procurement Specification (A) MIL-B-857				NONMAGNETIC		SHEET 4 OF 4