



NOMINAL SIZE		1/4	5/16	3/8	7/16	
THREADS PER INCH		20	18	16	14	
(D) BODY DIAMETER	MAX.	0.260	0.324	0.388	0.452	
(A) DIAMETER OF HEAD	MAX.	.594	.719	.813	.949	
	MIN.	.563	.688	.782	.907	
(H) HEIGHT OF HEAD	MAX.	.145	.176	.208	.239	
	MIN.	.125	.156	.188	.219	
(P) DEPTH OF SQUARE	MAX.	.156	.187	.219	.250	
	MIN.	.125	.156	.188	.219	
(B) WIDTH OF SQUARE	MAX.	.260	.324	.388	.452	
	MIN.	.245	.307	.368	.431	
(L) LENGTH	LENGTH TOLERANCE		DASH NO.	DASH NO.	DASH NO.	DASH NO.
	1/4 to 3/8 DIA.	7/16 DIA.				
1/2			1	21	--	--
3/4			2	22	42	62
1			3	23	43	63
1-1/4			4	24	44	64
1-1/2			5	25	45	65
1-3/4			6	26	46	66
2			7	27	47	67
2-1/4	±1/32	±1/16	8	28	48	68
2-1/2			9	29	49	69
2-3/4			10	30	50	70
3			11	31	51	71
3-1/2			12	32	52	72
4			13	33	53	73
4-1/2			14	34	54	74
5			15	35	55	75
5-1/2			--	--	122	--
6			16	36	56	76
6-1/2			120	--	--	--
7			17	37	57	77
7-1/2	±1/16	±3/32	121	--	--	--
8			18	38	58	78
9			19	39	59	79
10			20	40	60	80
11			--	--	123	--
12			--	--	124	--
14			--	--	125	--
15			--	--	--	--
16			--	--	126	--
18			--	--	127	--
20			--	--	128	--
22			--	--	129	--
24			--	--	--	--

PROBOLT 5306-0288

Ⓢ FOR CHANGE SEE SHEETS 1 AND 2

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.

P.A. SHIPS Other Cast	TITLE <b>BOLTS, SQUARE NECK, (CARRIAGE BOLT), ROUND HEAD, UNC-2A, COPPER-SILICON ALLOY, NONMAGNETIC</b>	MILITARY STANDARD
		<b>MS16207(SHIPS)</b>
PROCUREMENT SPECIFICATION Ⓢ FF-B-584	SUPERSEDES:	SHEET 1 OF 2

APPROVED 8 MAY 1957 REVISED 8 MARCH 1963 8 MARCH 1967 24 MAY 1967

NOMINAL SIZE		1/2	5/8	3/4	
THREADS PER INCH		13	11	10	
(D) BODY DIAMETER	MAX.	0.515	0.642	0.768	
(A) DIAMETER OF HEAD	MAX.	1.094	1.313	1.563	
	MIN.	1.032	1.219	1.469	
(H) HEIGHT OF HEAD	MAX.	0.270	0.344	0.406	
	MIN.	.250	.313	.375	
(P) DEPTH OF SQUARE	MAX.	.281	.344	.406	
	MIN.	.250	.313	.375	
(B) WIDTH OF SQUARE	MAX.	.515	.642	.768	
	MIN.	.492	.616	.741	
(L) LENGTH	LENGTH TOLERANCE		DASH NO.	DASH NO.	DASH NO.
	1/2 DIA.	5/8 - 3/4 DIA.			
1			81	---	---
1-1/2			82	95	---
2			83	96	108
2-1/2			84	97	109
3			85	98	110
3-1/2	±1/16	±1/8	86	99	111
4			87	100	112
4-1/2			88	101	113
5			89	102	114
6			90	103	115
7			91	.04	116
7-1/2			130	---	---
8	±3/32	±3/16	92	105	117
9			93	106	118
10			94	107	119
11			131	---	---
12			132	139	141
14			133	---	---
15			134	---	---
16			135	140	142
18			136	---	---
20			137	---	---
22			138	---	---
24			---	---	143

NOTES

- MATERIAL: COPPER-SILICON ALLOY (SILICON BRONZE) SHALL BE IN ACCORDANCE WITH QQ-C-591 COPPER ALLOY NO. 651.
- TENSILE STRENGTH: MINIMUM TENSILE STRENGTH OF BOLT SHALL BE 50,000 P.S.I.
- PROTECTIVE COATING: NONE.
- THREADS: THREADS SHALL BE UNC-2A IN ACCORDANCE WITH HANDBOOK H18.
- THREAD LENGTH: FOR BOLTS 6 INCHES AND LESS IN LENGTH THE MINIMUM THREAD LENGTH SHALL BE TWICE THE NOMINAL SIZE PLUS 1/4 INCH. FOR BOLTS OVER 6 INCHES LONG THE MINIMUM THREAD LENGTH SHALL BE TWICE THE NOMINAL SIZE PLUS 1/2 INCH. BOLTS TOO SHORT FOR MINIMUM THREAD LENGTH SHALL BE THREADED AS CLOSE TO THE HEAD AS PRACTICABLE.
- USE: COPPER-SILICON ALLOY BOLTS ARE INTENDED FOR USE IN SMALL BOATS AND NON-MAGNETIC MINESWEEPERS WHERE GOOD RESISTANCE TO SEA WATER CORROSION IS REQUIRED.
- DIMENSIONS: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
- REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BIDS.
- FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

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			MS16207(SHIPS)
PROCUREMENT SPECIFICATION	SUPERSEDES:		SHEET 2