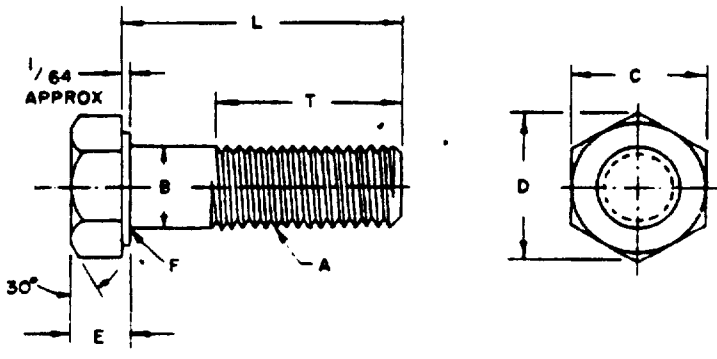


FED. SUP CLASS
5306



(B) Denotes Changes

APPROVED 8 May 1957 REVISED (A) 19 August 1966 (B) 29 November 1989

This military standard is approved by the Naval Sea Systems Command, Department of the Navy and shall be used by that activity. All other military activities are required to employ this standard where suitable.

P. A. SH Other Cust	INTERNATIONAL INTEREST	TITLE Bolts, Machine, Hexagon Head, Semifinished Corrosion Resisting Steel UNC-2A, Nonmagnetic	MILITARY STANDARD
			MS 16208(SH)
PROCUREMENT SPECIFICATION MIL-S-1222 (B)	SUPERSEDES:		SHEET 1 OF 6

This military standard is approved by the Naval Sea Systems Command, Department of the Navy, and shall be used by that activity. All other military activities are required to employ this standard where suitable.

FED. SUP CLASS
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Nominal size	1/4		5/16		3/8		7/16	
	20-UNC2A	MS part no	18-UNC2A	MS part no	16-UNC2A	MS part no	14-UNC2A	MS part no
(A) Threads per inch	0.250		0.312		0.375		0.437	
(B) Body diameter	.217		.276		.334		.394	
(C) Width across flats	.437		.500		.562		.625	
(D) Width across corners	.425		.484		.544		.603	
(E) Head height	.505		.577		.650		.722	
(F) Radius	.163		.211		.243		.291	
	.150		.195		.226		.272	
	.031		.031		.031		.031	
	.009		.009		.009		.009	
(L) Length	1/4	MS part no	5/8	MS part no	7/16	MS part no	3/4	MS part no
	3/8	1	1-1/4	25	1-1/2	46	1-3/4	76
	1/2	2	2-1/4	26	2-3/4	47	3-1/4	77
	5/8	3	3-1/4	27	4-1/4	48	4-3/4	78
	3/4	4	4-1/2	28	5-1/4	49	5-3/4	79
	7/8	5	5-1/2	29	6-1/4	50	6-3/4	80
	1	6	6-1/2	30	7-1/4	51	7-3/4	81
	1-1/4	7	7-1/2	31	8-1/4	52	8-3/4	82
	1-1/2	8	8-1/2	32	9-1/4	53	9-3/4	83
	1-3/4	9	9-1/2	33	10-1/4	54	10-3/4	84
	2	10	10-1/2	34	11-1/4	55	11-3/4	85
	2-1/4	11	11-1/2	35	12-1/4	56	12-3/4	86
	2-1/2	12	12-1/2	36	13-1/4	57	13-3/4	87
	2-3/4	13	13-1/2	37	14-1/4	58	14-3/4	88
	3	14	14-1/2	38	15-1/4	59	15-3/4	89
	3-1/4	15	15-1/2	39	16-1/4	60	16-3/4	90
	3-1/2	16	16-1/2	40	17-1/4	61	17-3/4	91
	3-3/4	17	17-1/2	41	18-1/4	62	18-3/4	92
	4	18	18-1/2	42	19-1/4	63	19-3/4	93
	4-1/4	19	19-1/2	43	20-1/4	64	20-3/4	94
	4-1/2	20	20-1/2	44	21-1/4	65	21-3/4	95
	4-3/4	21	21-1/2	45	22-1/4	66	22-3/4	96
	5	22	22-1/2	46	23-1/4	67	23-3/4	97
	5-1/2	23	23-1/2	47	24-1/4	68	24-3/4	98
	6	24	24-1/2	48	25-1/4	69	25-3/4	99
	6-1/2	25	25-1/2	49	26-1/4	70	26-3/4	100
	7	26	26-1/2	50	27-1/4	71	27-3/4	101
	7-1/2	27	27-1/2	51	28-1/4	72	28-3/4	102
	8	28	28-1/2	52	29-1/4	73	29-3/4	103
	9	29	29-1/2	53	30-1/4	74	30-3/4	104

(B) Denotes changes

P. A. SH Other Cont.	INTERNATIONAL INTEREST	TITLE Bolts, Machine, Hexagon Head, Semi-Finished, Corrosion Resisting Steel UNC-2A, Nonmagnetic	MILITARY STANDARD
	PROCUREMENT SPECIFICATION (B) MIL-S-1222	SUPERSEDES	MS 16208(SH)
DD FORM 672-1 (LIMITED COORDINATION)		PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE	SHEET 2 OF 6

APPROVED 8 May 1957 REVISED (A) 19 August 1966 (B) 29 November 1989

This military standard is approved by the Naval Sea Systems Command, Department of the Navy and shall be used by that activity, all other military activities and shall be used by that activity, all other military activities are required to employ this standard where suitable.

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Nominal size (Continued)	1/4		5/16		3/8		7/16	
	MS part no	FIIN	MS part no	FIIN	MS part no	FIIN	MS part no	FIIN
(A) Threads per inch (Continued)								
(L) Length (Continued)								
10								
11								
12								
13								
14								
15								
16								
18								
20								
Nominal size								
(A) Threads per inch								
(B) Body diameter								
(C) Width across flats								
(D) Width across corners								
(E) Head height								
(F) Radius								
(L) Length								
1/4								
3/8								
1/2								
5/8								
3/4								
7/8								
1								
1-1/4								
1-1/2								
1-3/4								
2								
2-1/4								
2-1/2								
2-3/4								
3								
3-1/4								
3-1/2								

(B) Denotes changes

APPROVED 8 May 1957 REVISION A 19 August 1966 B 29 November 1989

P. A. Other Code SH	INTERNATIONAL INTEREST	TITLE Bolts, Machine, Hexagon Head, Semi-Finished, Corrosion Resisting Steel UNC-2A, Nonmagnetic	MILITARY STANDARD MS 16208(SH)
PROCUREMENT SPECIFICATION MIL-S-1222	SUPERSEDES:		SHEET 3 OF 6

This military standard is approved by the Naval Sea Systems Command, Department of the Navy, and shall be used by that activity. All other military activities are required to employ this standard where suitable.

Nominal size (Continued)	1/2		5/8		3/4		7/8	
	13-UNC2A		11-UNC2A		10-UNC2A		9-UNC2A	
	MS part no	FIIN	MS part no	FIIN	MS part no	FIIN	MS part no	FIIN
(A) Threads per inch (Continued)	Tolerance		Tolerance		Tolerance		Tolerance	
(L) Length (Continued)	Size 1/4 to 3/8	Size 7/16 to 1/2	Size 5/8 to 1-1/4					
3-3/4								
4								
4-1/4								
4-1/2								
4-3/4								
5								
5-1/2								
6								
6-1/2								
7								
7-1/2								
8								
9								
10								
11								
12								
13								
14								
15								
16								
18								
20								

FED. SUP CLASS
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(B) Denotes changes

P. A. SH Other Cost	INTERNATIONAL INTEREST	TITLE Bolts, Machine, Hexagon Head, Semi-Finished, Corrosion Resisting Steel UNC-2A, Nonmagnetic	MILITARY STANDARD MS 16208(SH)
PROCUREMENT SPECIFICATION (B) MIL-5-1222	SUPERSEDES:		SHEET 4 OF 6

APPROVED 8 May 1957 REVISED (A) 19 August 1966 (B) 29 November 1989

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This military standard is approved by the Naval Sea Systems Command, Department of the Navy and shall be used by that activity. All other military activities are required to employ this standard where suitable.

Nominal size	I		1-1/8		1-1/4		1-3/8		1-1/2	
	8-UNC2A	7-UNC2A	7-UNC2A	6-UNC2A	7-UNC2A	6-UNC2A	6-UNC2A	6-UNC2A	6-UNC2A	6-UNC2A
(A) Threads per inch	1.000	1.125	1.125	1.375	1.125	1.375	1.375	1.500	1.500	1.500
(B) Body diameter	0.919	1.032	1.032	1.267	1.157	1.267	1.267	1.392	1.392	1.392
(C) Width across flats	1.500	1.687	1.687	2.062	1.875	2.062	2.062	2.250	2.250	2.250
(D) Width across corners	1.450	1.631	1.631	1.994	1.812	1.994	1.994	2.175	2.175	2.175
(E) Head height	1.732	1.949	1.949	2.382	2.165	2.382	2.382	2.598	2.598	2.598
(F) Radius	1.653	1.859	1.859	2.273	2.066	2.273	2.273	2.480	2.480	2.480
(L) Length	0.67	0.718	0.718	0.878	0.813	0.878	0.878	0.974	0.974	0.974
	.591	.658	.658	.810	.749	.810	.810	.902	.902	.902
	.093	.093	.093	.062	.093	.062	.062	.093	.093	.062
	.062	.062	.062	.062	.062	.062	.062	.062	.062	.062
	MS part no	FIIN part no	MS part no	FIIN part no	MS part no	FIIN part no	MS part no	FIIN part no	MS part no	FIIN part no
	226	256	256	281	227	257	257	282	228	258
	228	258	258	283	229	259	259	284	230	260
	230	260	260	285	231	261	261	286	232	262
	232	262	262	287	233	263	263	288	234	264
	233	263	263	288	235	265	265	289	236	266
	234	264	264	289	237	267	267	290	238	268
	235	265	265	290	239	269	269	291	240	270
	236	266	266	291	241	271	271	292	242	272
	237	267	267	292	243	273	273	293	244	274
	238	268	268	293	245	275	275	294	246	276
	239	269	269	294	247	277	277	295	248	278
	240	270	270	295	249	279	279	296	250	280
	241	271	271	296				297		
	242	272	272	297				298		
	243	273	273	298				299		
	244	274	274	299						
	245									
	246									
	247									
	248									
	249									
	250									

(B) Denotes changes

P. A. SH Other Cost	INTERNATIONAL INTEREST	TITLE Bolts, Machine, Hexagon Head, Semi-Finished, Corrosion Resisting Steel UNC-2A, Nonmagnetic	MILITARY STANDARD MS 16208(SH)
PROCUREMENT SPECIFICATION (B) MIL-S-1222	SUPERSEDES:		SHEET 5 OF 6

APPROVED 8 May 1957 REVISED (A) 19 August 1966 (B) 29 November 1989

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Nominal size (Continued) (A) Threads per inch (Continued) (L) Length (Continued)	Tolerance		1		1-1/8		1-1/4		1-3/8		1-1/2		
	Size 1/4 to 3/8	Size 7/16 to 1/2	Size 5/8 to 1-1/2	8-UNC2A		7-UNC2A		7-UNC2A		6-UNC2A		6-UNC2A	
	MS part no	FIIN part no	MS part no	MS part no	FIIN part no	MS part no	FIIN part no	MS part no	FIIN part no	MS part no	FIIN part no	MS part no	FIIN part no
11	+1/16	+3/32	+3/16	---	---	---	---	---	---	---	---	---	---
12				---	---	---	---	---	---	---	---	---	---
13				---	---	---	---	---	---	---	---	---	---
14				---	---	---	---	---	---	---	---	---	---
15				---	---	---	---	---	---	---	---	---	---
16				---	---	---	---	---	---	---	---	---	---
18				---	---	---	---	---	---	---	---	---	---
20				---	---	---	---	---	---	---	---	---	---

(B) Material: Austenitic corrosion resisting steel shall be in accordance with class 303, 303SE, 304, 305, 316, 321, 347, or 384 of ASTM F 593.
 Magnetic permeability: Magnetic permeability shall be $\mu_m = 2.0$ maximum when measured with a permeability indicator in accordance with MIL-I-17214.
 Protective coating: Passivate in accordance with QQ-P-35.
 Threads: Threads shall be UNC2A in accordance with FED-STD-H28.
 Thread length: Minimum thread length shall be twice the nominal size (diameter) plus 1/4 inch for lengths to 6 inches inclusive and twice the nominal diameter plus 1/2 inch for 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 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.

(B) Denotes changes

P. A. SH Other Cert	INTERNATIONAL INTEREST	TITLE Bolts, Machine, Hexagon Head, Semi-Finished, Corrosion Resisting Steel UNC-2A, Nonmagnetic	MILITARY STANDARD
PROCUREMENT SPECIFICATION (B) MIL-S-1222	SUPERSEDES:		MS 16208(SH)
			SHEET 6 OF 6

APPROVED 8 May 1957 REVISED (A) 19 August 1966 (B) 29 November 1989