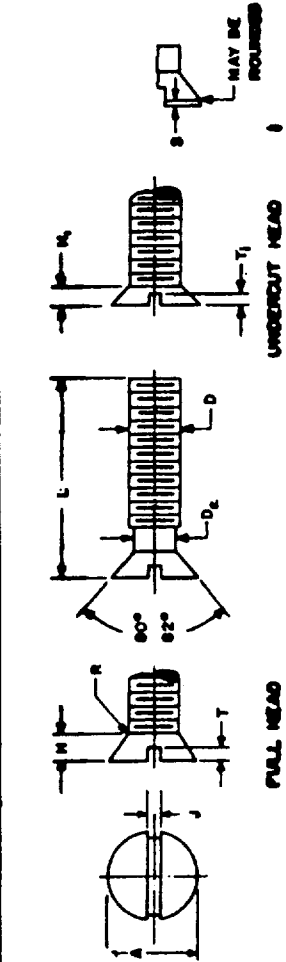


This standard has been approved by the Naval Ship Engineering Center, Department of the Navy, and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.



Nominal size (D) Threads per inch	1/4		3/8		1/2		5/8		3/4	
	MS part No.	FIIN	MS part No.	FIIN	MS part No.	FIIN	MS part No.	FIIN	MS part No.	FIIN
Body diameter (D)	Max. 0.250	0.250	Max. 0.375	0.375	Max. 0.500	0.500	Max. 0.625	0.625	Max. 0.750	0.750
Head diameter (A)	Max. 0.242	0.242	Max. 0.368	0.368	Max. 0.494	0.494	Max. 0.620	0.620	Max. 0.746	0.746
Head diameter (A)	Min. 0.207	0.207	Min. 0.333	0.333	Min. 0.459	0.459	Min. 0.585	0.585	Min. 0.711	0.711
Slot width (J)	Max. 0.075	0.075	Max. 0.094	0.094	Max. 0.109	0.109	Max. 0.133	0.133	Max. 0.149	0.149
Slot width (J)	Min. 0.064	0.064	Min. 0.081	0.081	Min. 0.091	0.091	Min. 0.116	0.116	Min. 0.131	0.131
Flat (S)	Max. 0.009	0.009	Max. 0.013	0.013	Max. 0.018	0.018	Max. 0.023	0.023	Max. 0.027	0.027
Flat (S)	Min. 0.000	0.000	Min. 0.000	0.000	Min. 0.000	0.000	Min. 0.000	0.000	Min. 0.000	0.000
Head height (H)	Max. 0.153	0.153	Max. 0.230	0.230	Max. 0.307	0.307	Max. 0.384	0.384	Max. 0.461	0.461
Head height (H)	Min. 0.131	0.131	Min. 0.200	0.200	Min. 0.277	0.277	Min. 0.354	0.354	Min. 0.431	0.431
Slot depth (T)	Max. 0.046	0.046	Max. 0.070	0.070	Max. 0.095	0.095	Max. 0.120	0.120	Max. 0.145	0.145
Slot depth (T)	Min. 0.038	0.038	Min. 0.062	0.062	Min. 0.087	0.087	Min. 0.112	0.112	Min. 0.137	0.137
Head height (H <sub>1</sub> )	Max. 0.086	0.086	Max. 0.132	0.132	Max. 0.178	0.178	Max. 0.224	0.224	Max. 0.270	0.270
Head height (H <sub>1</sub> )	Min. 0.078	0.078	Min. 0.124	0.124	Min. 0.170	0.170	Min. 0.216	0.216	Min. 0.262	0.262
Slot depth (T <sub>1</sub> )	Max. 0.046	0.046	Max. 0.070	0.070	Max. 0.095	0.095	Max. 0.120	0.120	Max. 0.145	0.145
Slot depth (T <sub>1</sub> )	Min. 0.038	0.038	Min. 0.062	0.062	Min. 0.087	0.087	Min. 0.112	0.112	Min. 0.137	0.137
Length (L)	Length tolerance		Length tolerance		Length tolerance		Length tolerance		Length tolerance	
1	+0	1	+0	6	+0	11	+0	16	+0	21
1-1/2	-1/32	2	-1/32	7	-1/32	12	-1/32	17	-1/32	22
2	+0	3	-1/16	8	+0	13	+0	18	+0	23
2-1/2	-1/16	4	-1/16	9	-1/16	14	-1/16	19	-1/16	24
3	+0	5	-3/32	10	+0	15	+0	20	+0	25
3-1/2	-3/32	6	-3/32	11	-3/32	16	-3/32	21	-3/32	26
4	+0	7	+0	12	+0	17	+0	22	+0	27
4-1/2	-1/8	8	-1/8	13	-1/8	18	-1/8	23	-1/8	28
5	+0	9	+0	14	+0	19	+0	24	+0	29
5-1/2	-1/8	10	-1/8	15	-1/8	20	-1/8	25	-1/8	30
6	+0	11	+0	16	+0	21	+0	26	+0	31
6-1/2	-1/8	12	-1/8	17	-1/8	22	-1/8	27	-1/8	32
7	+0	13	+0	18	+0	23	+0	28	+0	33
7-1/2	-1/8	14	-1/8	19	-1/8	24	-1/8	29	-1/8	34
8	+0	15	+0	20	+0	25	+0	30	+0	35
8-1/2	-1/8	16	-1/8	21	-1/8	26	-1/8	31	-1/8	36
9	+0	17	+0	22	+0	27	+0	32	+0	37
9-1/2	-1/8	18	-1/8	23	-1/8	28	-1/8	33	-1/8	38
10	+0	19	+0	24	+0	29	+0	34	+0	39
10-1/2	-1/8	20	-1/8	25	-1/8	30	-1/8	35	-1/8	40
11	+0	21	+0	26	+0	31	+0	36	+0	41
11-1/2	-1/8	22	-1/8	27	-1/8	32	-1/8	37	-1/8	42
12	+0	23	+0	28	+0	33	+0	38	+0	43
12-1/2	-1/8	24	-1/8	29	-1/8	34	-1/8	39	-1/8	44
13	+0	25	+0	30	+0	35	+0	40	+0	45
13-1/2	-1/8	26	-1/8	31	-1/8	36	-1/8	41	-1/8	46
14	+0	27	+0	32	+0	37	+0	42	+0	47
14-1/2	-1/8	28	-1/8	33	-1/8	38	-1/8	43	-1/8	48
15	+0	29	+0	34	+0	39	+0	44	+0	49
15-1/2	-1/8	30	-1/8	35	-1/8	40	-1/8	45	-1/8	50
16	+0	31	+0	36	+0	41	+0	46	+0	51
16-1/2	-1/8	32	-1/8	37	-1/8	42	-1/8	47	-1/8	52
17	+0	33	+0	38	+0	43	+0	48	+0	53
17-1/2	-1/8	34	-1/8	39	-1/8	44	-1/8	49	-1/8	54
18	+0	35	+0	40	+0	45	+0	50	+0	55
18-1/2	-1/8	36	-1/8	41	-1/8	46	-1/8	51	-1/8	56
19	+0	37	+0	42	+0	47	+0	52	+0	57
19-1/2	-1/8	38	-1/8	43	-1/8	48	-1/8	53	-1/8	58
20	+0	39	+0	44	+0	49	+0	54	+0	59
20-1/2	-1/8	40	-1/8	45	-1/8	50	-1/8	55	-1/8	60
21	+0	41	+0	46	+0	51	+0	56	+0	61
21-1/2	-1/8	42	-1/8	47	-1/8	52	-1/8	57	-1/8	62
22	+0	43	+0	48	+0	53	+0	58	+0	63
22-1/2	-1/8	44	-1/8	49	-1/8	54	-1/8	59	-1/8	64
23	+0	45	+0	50	+0	55	+0	60	+0	65
23-1/2	-1/8	46	-1/8	51	-1/8	56	-1/8	61	-1/8	66
24	+0	47	+0	52	+0	57	+0	62	+0	67
24-1/2	-1/8	48	-1/8	53	-1/8	58	-1/8	63	-1/8	68
25	+0	49	+0	54	+0	59	+0	64	+0	69
25-1/2	-1/8	50	-1/8	55	-1/8	60	-1/8	65	-1/8	70
26	+0	51	+0	56	+0	61	+0	66	+0	71
26-1/2	-1/8	52	-1/8	57	-1/8	62	-1/8	67	-1/8	72
27	+0	53	+0	58	+0	63	+0	68	+0	73
27-1/2	-1/8	54	-1/8	59	-1/8	64	-1/8	69	-1/8	74
28	+0	55	+0	60	+0	65	+0	70	+0	75
28-1/2	-1/8	56	-1/8	61	-1/8	66	-1/8	71	-1/8	76
29	+0	57	+0	62	+0	67	+0	72	+0	77
29-1/2	-1/8	58	-1/8	63	-1/8	68	-1/8	73	-1/8	78
30	+0	59	+0	64	+0	69	+0	74	+0	79
30-1/2	-1/8	60	-1/8	65	-1/8	70	-1/8	75	-1/8	80
31	+0	61	+0	66	+0	71	+0	76	+0	81
31-1/2	-1/8	62	-1/8	67	-1/8	72	-1/8	77	-1/8	82
32	+0	63	+0	68	+0	73	+0	78	+0	83
32-1/2	-1/8	64	-1/8	69	-1/8	74	-1/8	79	-1/8	84
33	+0	65	+0	70	+0	75	+0	80	+0	85
33-1/2	-1/8	66	-1/8	71	-1/8	76	-1/8	81	-1/8	86
34	+0	67	+0	72	+0	77	+0	82	+0	87
34-1/2	-1/8	68	-1/8	73	-1/8	78	-1/8	83	-1/8	88
35	+0	69	+0	74	+0	79	+0	84	+0	89
35-1/2	-1/8	70	-1/8	75	-1/8	80	-1/8	85	-1/8	90
36	+0	71	+0	76	+0	81	+0	86	+0	91
36-1/2	-1/8	72	-1/8	77	-1/8	82	-1/8	87	-1/8	92
37	+0	73	+0	78	+0	83	+0	88	+0	93
37-1/2	-1/8	74	-1/8	79	-1/8	84	-1/8	89	-1/8	94
38	+0	75	+0	80	+0	85	+0	90	+0	95
38-1/2	-1/8	76	-1/8	81	-1/8	86	-1/8	91	-1/8	96
39	+0	77	+0	82	+0	87	+0	92	+0	97
39-1/2	-1/8	78	-1/8	83	-1/8	88	-1/8	93	-1/8	98
40	+0	79	+0	84	+0	89	+0	94	+0	99
40-1/2	-1/8	80	-1/8	85	-1/8	90	-1/8	95	-1/8	100

<sup>1</sup>Have undercut head.

(Project 5305-NO13Sh) A For changes see sheets 1 and 2

APPROVED 8 MAY 1967 REVISED 19 AUGUST 1966

CUSTODIANS Ships	OTHER INT. A - N - M -	<b>MILITARY STANDARD</b>		<b>MS16219</b>
		SCREWS, MACHINE, FLAT COUNTERSUNK HEAD, SLOTTED, NON-		
PROCUREMENT SPECIFICATION ADP-5-92		SUPERSEDES:		SHEET 1 of 2
MAGNETIC, CORROSION RESISTING STEEL, PASSIVATED, UNC12A				

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  
**5305**

**Material:** Material shall be austenitic corrosion resisting steel in accordance with class 302, 303, 304, 305, 310 or 316 of Specification QQ-S-763 or composition FS 302, 304, 310 or 316 of Specification QQ-W-423.

**Threads:** Threads shall be in accordance with Handbook H28.

**Magnetic permeability:** Magnetic permeability shall be 2.0 maximum (mp) at 100/200 oersteds.

**Dimensions:** All dimensions are in inches, unless otherwise specified.

**Protective coating:** Screws shall be passivated in accordance with QQ-P-35.

**Notes:**

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

APPROVED 8 MAY 1957 REVISED (A) For changes see sheets 1 and 2

CUSTODIANS <b>Ships</b>	OTHER INT.	<b>MILITARY STANDARD</b>	<b>MS16219</b> <b>(SHIPS)</b>
	A - N - AF -	SCREWS, MACHINE, FLAT COUNTERSUNK HEAD, SLOTTED, NONMAGNETIC, CORROSION RESIST-	
Procurement Specification <b>QQ-S-92</b>		ING STEEL, PASSIVATED, UNC-2A	SHEET 2 OF 2