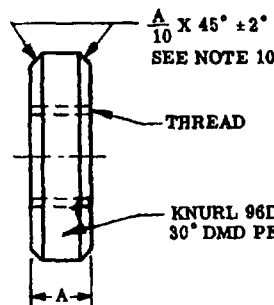
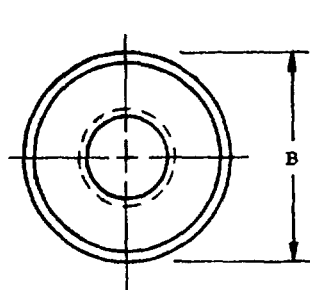


Use activities
NAVY - OS, SH

Review activities
ARMY - MI
DLA - IS
NS

This military standard is approved for use by all Departments
& Agencies of the Department of Defense. Selection for all new
engineering and design applications and for routine use shall
be made from this document, when applicable.



FED SUP CLASS
5310

TABLE I

DASH NO.				THREAD	A	B	DASH NO.				THREAD	A	B
BRASS	CRES	CARBON STEEL	AL ALLOY				BRASS	CRES	CARBON STEEL	AL ALLOY			
1B*	1C*	1S*	1A*	(NO. 4) .112 40UNC-2B	.06	.56	42B*	42C*	42S*	42A*	(NO. 10) .190 24UNC-2B	.12	.75
2B	2C	2S	2A		.09	.88	43B	43C	43S	43A		.23	.50
3B*	3C*	3S*	3A*		.12	.38	44B	44C	44S	44A		.25	.75
4B*	4C*	4S*	4A*		.22	.31	45B*	45C*	45S*	45A*		.31	.75
5B	5C	5S	5A		.25	.38	46B*	46C*	46S*	46A*		.33	.50
6B	6C	6S	6A		.50	.38	47B*	47C*	47S*	47A*		.38	.75
7B*	7C*	7S*	7A*	(NO. 6) .138 32UNC-2B	.56	.38	48B	48C	48S	48A	(1/4) .25 20UNC-2B	.44	.75
8B*	8C*	8S*	8A*		.12	.50	49B	49C	49S	49A		.69	1.00
9B*	9C*	9S*	9A*		.16	.56	50B	50C	50S	50A		.12	.88
10B	10C	10S	10A		.19	.50	51B*	51C*	51S*	51A*		.25	1.00
11B*	11C*	11S*	11A*		.22	.33	52B	52C	52S	52A		.38	1.00
12B	12C	12S	12A		.25	.38	53B*	53C*	53S*	53A*		.41	.82
13B*	13C*	13S*	13A	(NO. 8) .164 32UNC-2B	.28	.41	54B	54C	54S	54A	(1/4) .25 28UNF-2B	.50	.50
14B*	14C*	14S*	14A*		.30	.62	55B	55C	55S	55A		.55	1.25
15B	15C	15S	15A		.34	.50	56B*	56C*	56S*	56A*		.56	.62
16B*	16C*	16S*	16A*		.35	.62	57B*	57C*	57S*	57A*		.12	.56
17B	17C	17S	17A		.94	.88	58B	58C	58S	58A		.19	.62
18B*	18C*	18S*	18A*		.16	.50	59B	59C	59S	59A		.25	.75
19B	19C	19S	19A	(NO. 10) .190 32UNF-2B	.19	.50	60B*	60C*	60S*	60A*	(5/16) .3125 18UNC-2B	.38	.69
20B*	20C*	20S*	20A*		.22	.44	61B	61C	61S	61A		.50	.75
21B	21C	21S	21A		.25	.75	62B	62C	62S	62A		.66	1.50
22B	22C	22S	22A		.28	.50	63B	63C	63S	63A		.65	.88
23B*	23C*	23S*	23A*		.31	.44	64B*	64C*	64S*	64A*		.69	.56
24B*	24C*	24S*	24A*		.34	.41	65B*	65C*	65S*	65A*		.75	1.50
25B	25C	25S	25A	(NO. 10) .190 32UNF-2B	.38	.68	66B	66C	66S	66A	(5/16) .3125 24UNF-2B	.12	.88
26B*	26C*	26S*	26A*		.41	.50	67B	67C	67S	67A		.25	.88
27B	27C	27S	27A		.47	.38	68B*	68C*	68S*	68A*		.31	1.00
28B	28C	28S	28A		.50	.50	69B	69C	69S	69A		.38	.44
29B*	29C*	29S*	29A*		.56	.50	70B*	70C*	70S*	70A*		.50	.75
30B	30C	30S	30A		.62	.75	71B	71C	71S	71A		.88	.75
31B*	31C*	31S*	31A*	(NO. 10) .190 32UNF-2B	.18	.88	72B	72C	72S	72A	(5/16) .3125 24UNF-2B	.94	1.25
32B*	32C*	32S*	32A*		.19	.75	73B*	73C*	73S*	73A*		.12	.88
33B	33C	33S	33A		.25	1.00	74B*	74C*	74S*	74A*		.25	.88
34B*	34C*	34S*	34A*		.28	.75	75B	75C	75S	75A		.31	1.00
35B	35C	35S	35A		.31	.50	76B*	76C*	76S*	76A*		.38	.44
36B	36C	36S	36A		.33	.52	77B	77C	77S	77A		.44	.56
37B*	37C*	37S*	37A*	(NO. 10) .190 32UNF-2B	.38	.50							
38B*	38C*	38S*	38A*		.41	.50							
39B*	39C*	39S*	39A*		.44	.62							
40B	40C	40S	40A		.50	.50							
41B	41C	41S	41A		.56	.76							

* INACTIVE FOR DESIGN AFTER 27 FEB 1976

Ⓓ REVISED AND REDRAWN

P.A. AR	TITLE	MILITARY STANDARD
Other Cust		
99	NUT, PLAIN, KNURLED	MS16994
PROCUREMENT SPECIFICATION FF-N-836	SUPERSEDES	SHEET 1 OF 3

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5310 - 1038

APPROVED 19 FEB 1962 REVISED Ⓐ 12 OCT 1966 Ⓑ 3 OCT 1969 Ⓒ 27 FEB 1976 Ⓓ 7 DEC 1979

User activities:
NAVY - OS, SH

Review activities:
ARMY - MI
DLA - IS
NS

TABLE I - CONTINUED												FED SUP CLASS 5310		
DASH NO.				THREAD	A	B	DASH NO.				THREAD	A	B	
BRASS	CRES	CARBON STEEL	AL ALLOY				BRASS	CRES	CARBON STEEL	AL ALLOY				
78B*	78C*	78S*	78A*	(3/8) .375 32UNEF-2B	.09	.84	104B*	104C*	104S*	104A*	(1/2) .50 20UNF-2B	.09	1.00	
79B	79C	79S	79A		.12	.50	105B	105C	105S	105A		.12	1.12	
80B*	80C*	80S*	80A*		.12	.62	106B*	106C*	106S*	106A*		.19	1.75	
81B	81C	81S	81A		.16	.94	107B	107C	107S	107A		.25	.75	
82B*	82C*	82S*	82A*		.19	.52	108B	108C	108S	108A		.38	1.00	
83B	83C	83S	83A		.25	.69	109B*	109C*	109S*	109A*		.44	1.62	
84B	84C	84S	84A		.31	1.00	110B	110C	110S	110A		.47	1.50	
85B*	85C*	85S*	85A*		.38	.69	111B*	111C*	111S*	111A*		.56	.97	
86B	86C	86S	86A	(3/8) .375 24UNF-2B	.75	.75	112B	112C	112S	112A	(3/4) .75 20UNEF-2B	.75	1.50	
87B*	87C*	87S*	87A*		.88	.62	113B	113C	113S	113A		.88	2.50	
88B*	88C*	88S*	88A*		.09	.69	114B*	114C*	114S*	114A*		1.25	1.25	
89B	89C	89S	89A		.12	.69	115B*	115C*	115S*	115A*		.08	1.75	
90B*	90C*	90S*	90A*		.19	.62	116B	116C	116S	116A		.12	1.72	
91B*	91C*	91S*	91A*		.22	.55	117B*	117C*	117S*	117A*		.25	1.91	
92B	92C	92S	92A		.25	1.25	118B*	118C*	118S*	118A*		.31	1.06	
93B*	93C*	93S*	93A*		.38	.88	119B	119C	119S	119A		.39	1.25	
94B	94C	94S	94A	(3/8) .375 16UNC-2B	.50	.75	120B	120C	120S	120A	(3/4) .75 20UNEF-2B	.44	1.88	
95B*	95C*	95S*	95A*		.77	.77	121B	121C	121S	121A		.75	1.50	
--	122C	--	--		.50	1.25								
96B*	96C*	96S*	96A*		.09	1.19								
97B*	97C*	97S*	97A*		.12	1.00								
98B*	98C*	98S*	98A*		.16	1.50								
99B*	99C*	99S*	99A*		.31	.88								
100B*	100C*	100S*	100A*		.44	.88								
101B*	101C*	101S*	101A*	(7/16) .4375 20UNF-2B	.47	1.00								
102B*	102C*	102S*	102A*		.75	1.50								
103B*	103C*	103S*	103A*		.88	1.00								

* INACTIVE FOR DESIGN AFTER 27 FEB 1976

NOTES

1 **MATERIALS** BRASS, HALF HARD IN ACCORDANCE WITH QQ-B-626
STEEL, CORROSION RESISTING, FED-STD-66, 300 SERIES
(D) STEEL CARBON
ALUMINUM ALLOY, TEMPER T4, IN ACCORDANCE WITH QQ-A-225/6

2 **FINISH** BRASS BLACK CHEMICAL FINISH IN ACCORDANCE WITH MIL-F-495
STEEL CORROSION RESISTING, PASSIVATION TREATMENT IN ACCORDANCE WITH QQ-P-35
STEEL CADMIUM PLATE, TYPE II, CLASS 3, IN ACCORDANCE WITH QQ-P-416
ALUMINUM ALLOY ANODIC COATING, IN ACCORDANCE WITH MIL-A-8625

3 **MAGNETIC PERMEABILITY:** CORROSION RESISTING STEEL FASTENERS SHALL HAVE A MAGNETIC PERMEABILITY OF 2.0 MAXIMUM (AIR = 1.0) FOR A FIELD STRENGTH OF H = 200 OERSTEDS USING MAGNETIC INDICATOR PER MIL-I-17214

4 **THREADS** THE THREADS SHALL BE IN ACCORDANCE WITH THE SCREW-THREAD STANDARDS FOR FEDERAL SERVICES, FED-STD-H28

5 **DIMENSIONS** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

6 **TOLERANCE** ± .01

7 **PART NUMBER:** THE PART NUMBER CONSISTS OF THE MS NUMBER PLUS THE DASH NUMBER.
EXAMPLE: MS16994-1B

8 FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN

9 REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON THE DATE OF INVITATION FOR BIDS OR REQUEST FOR PROPOSAL, EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF ISSUE ADOPTED.

10. WHERE A/10 IS LESS THAN .025, CHAMFER BY BREAKING SHARP EDGES ONLY

P A		TITLE	MILITARY STANDARD
Other Cust	AR		
99			
NUT, PLAIN, KNURLED		MS16994	
PROCUREMENT SPECIFICATION FF-N-836		SUPERSEDES	
SHEET		2 OF 3	

APPROVED 19 FEB 1962
FOR CHANGES SEE SHEET 1 AND 2
REVISED

* INACTIVE FOR DESIGN AFTER 27 FEB 1976

NOTES

- MATERIALS** BRASS, HALF HARD IN ACCORDANCE WITH QQ-B-626
STEEL, CORROSION RESISTING, FED-STD-66, 300 SERIES
STEEL CARBON
ALUMINUM ALLOY, TEMPER T4, IN ACCORDANCE WITH QQ-A-225/6
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- TOLERANCE** ± .01
- PART NUMBER** THE PART NUMBER CONSISTS OF THE MS NUMBER PLUS THE DASH NUMBER.
EXAMPLE: MS16994-1B
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P A	AR	TITLE	MILITARY STANDARD
Other Cust	99	NUT, PLAIN, KNURLED	MS16994
PROCUREMENT SPECIFICATION FF-N-836	SUPERSEDES		SHEET 2 OF 3

This military standard is approved for use by all Departments & Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document, when applicable.

APPROVED 19 FEB 1962 REVISED FOR CHANGES SEE SHEET 1 AND 2

FED SUP CLASS
5910

TABLE II - INTERCHANGEABILITY

THE FOLLOWING NUTS ARE CANCELLED AFTER 12 OCTOBER 1966. USE ONLY THE NEW NUTS FOR NEW DESIGN. REPLACEMENT SHALL BE IN ACCORDANCE WITH THIS TABLE. CANCELLED NUTS MAY BE USED UNTIL EXISTING STOCK IS DEPLETED.

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
CANCELLED	NEW	CANCELLED	NEW	CANCELLED	NEW	CANCELLED	NEW
MS16994-1	MS16994-1B	MS16994-31	MS16994-31B	MS16994-61	MS16994-61B	MS16994-91	MS16994-91B
-2	-2B	-32	-32B	-62	-62B	-92	-92B
-3	-3B	-33	-33B	-63	-63B	-93	-93B
-4	-4B	-34	-34B	-64	-64B	-94	-94B
-5	-5B	-35	-35B	-65	-65B	-95	-95B
-6	-6B	-36	-36B	-66	-66B	-96	-96B
-7	-7B	-37	-37B	-67	-67B	-97	-97B
-8	-8B	-38	-38B	-68	-68B	-98	-98B
-9	-9B	-39	-39B	-69	-69B	-99	-99B
-10	-10B	-40	-40B	-70	-70B	-100	-100B
-11	-11B	-41	-41B	-71	-71B	-101	-101B
-12	-12B	-42	-42B	-72	-72B	-102	-102B
-13	-13B	-43	-43B	-73	-73B	-103	-103B
-14	-14B	-44	-44B	-74	-74B	-104	-104B
-15	-15B	-45	-45B	-75	-75B	-105	-105B
-16	-16B	-46	-46B	-76	-76B	-106	-106B
-17	-17B	-47	-47B	-77	-77B	-107	-107B
-18	-18B	-48	-48B	-78	-78B	-108	-108B
-19	-19B	-49	-49B	-79	-79B	-109	-109B
-20	-20B	-50	-50B	-80	-80B	-110	-110B
-21	-21B	-51	-51B	-81	-81B	-111	-111B
-22	-22B	-52	-52B	-82	-82B	-112	-112B
-23	-23B	-53	-53B	-83	-83B	-113	-113B
-24	-24B	-54	-54B	-84	-84B	-114	-114B
-25	-25B	-55	-55B	-85	-85B	-115	-115B
-26	-26B	-56	-56B	-86	-86B	-116	-116B
-27	-27B	-57	-57B	-87	-87B	-117	-117B
-28	-28B	-58	-58B	-88	-88B	-118	-118B
-29	-29B	-59	-59B	-89	-89B	-119	-119B
-30	-30B	-60	-60B	-90	-90B	-120	-120B

FOR CHANGES SEE SHEET 1 AND 2

REVISED

DD FORM 1 MAR 72

P A	AR	TITLE	MILITARY STANDARD
Other Cust	99	NUT, PLAIN, KNURLED	MS16994
PROCUREMENT SPECIFICATION FF-N-836	SUPERSEDES		SHEET 3 OF 3

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PLATE NO 23

User activities:
NAVY - OS, SH

Review activities:
ARMY - MI
DLA - IS
NS

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