

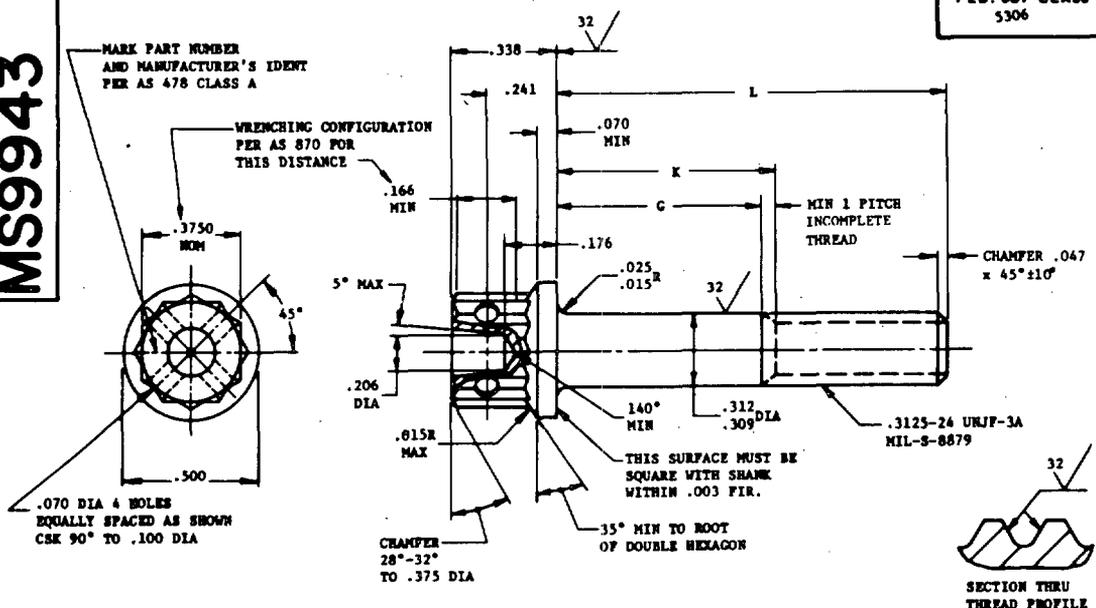
**MS9943**

FED. SUP CLASS  
5306

User activities:  
Navy - MC, CG

Review activities:  
Air Force - 82  
Navy - A5

This military standard is approved by the Department of the Air Force and the Bureau of Naval Weapons and is mandatory for use by these activities. All other military activities are required to employ this standard where suitable.



PART NO.	L	G MIN	R MAX	APPROX WEIGHT LB/100
MS9943-13	1.062	.045	.188	3.11
MS9943-14	1.125	.107	.250	3.25
MS9943-15	1.188	.169	.312	3.39
MS9943-16	1.250	.232	.375	3.52
MS9943-17	1.312	.295	.438	3.65
MS9943-18	1.375	.357	.500	3.79
MS9943-19	1.438	.419	.562	3.92
MS9943-20	1.500	.482	.625	4.06
MS9943-21	1.562	.545	.688	4.19
MS9943-22	1.625	.607	.750	4.32
MS9943-23	1.688	.669	.812	4.46
MS9943-24	1.750	.732	.875	4.59
MS9943-25	1.812	.795	.938	4.73
MS9943-26	1.875	.857	1.000	4.86
MS9943-27	1.938	.919	1.062	5.00
MS9943-28	2.000	.982	1.125	5.13

PART NO.	L	G MIN	R MAX	APPROX WEIGHT LB/100
MS9943-29	2.125	1.107	1.250	5.40
MS9943-30	2.250	1.232	1.375	5.67
MS9943-31	2.375	1.357	1.500	5.95
MS9943-32	2.500	1.482	1.625	6.23
MS9943-33	2.625	1.607	1.750	6.49
MS9943-34	2.750	1.732	1.875	6.76
MS9943-35	2.875	1.857	2.000	7.03
MS9943-36	3.000	1.982	2.125	7.33
MS9943-37	3.125	2.107	2.250	7.57
MS9943-38	3.250	2.232	2.375	7.84
MS9943-39	3.375	2.357	2.500	8.11
MS9943-40	3.500	2.482	2.625	8.39
MS9943-41	3.625	2.607	2.750	8.65
MS9943-42	3.750	2.732	2.875	8.92
MS9943-43	3.875	2.857	3.000	9.19
MS9943-44	4.000	2.982	3.125	9.47
MS9943-45	4.125	3.107	3.250	9.74
MS9943-46	4.250	3.232	3.375	10.01

PART NO.	L	G MIN	K MAX	APPROX WEIGHT LB/100
MS9943-47	4.375	3.357	3.500	10.28
MS9943-48	4.500	3.482	3.625	10.55
MS9943-49	4.625	3.607	3.750	10.82
MS9943-50	4.750	3.732	3.875	11.09
MS9943-51	4.875	3.857	4.000	11.36
MS9943-52	5.000	3.982	4.125	11.63
MS9943-53	5.125	4.107	4.250	11.90
MS9943-54	5.250	4.232	4.375	12.20
MS9943-55	5.375	4.357	4.500	12.45
MS9943-56	5.500	4.482	4.625	12.72
MS9943-57	5.625	4.607	4.750	12.99
MS9943-58	5.750	4.732	4.875	13.25
MS9943-59	5.875	4.857	5.000	13.53
MS9943-60	6.000	4.982	5.125	13.80

- SHANK SHALL BE STRAIGHT WITHIN .003 TOTAL PER INCH OF BOLT LENGTH.
- THE CONCENTRICITY OF THREAD PD IN RELATION TO THE SHANK SHALL BE WITHIN .006 FIR.
- THE CONCENTRICITY OF THE SHANK IN RELATION TO THE WASHER FACE DIAMETER AND DOUBLE HEXAGON SHALL BE WITHIN .008 FIR.
- MATERIAL: STEEL AMS 6322.
- HARDNESS: ROCKWELL C26-32.
- FINISH: CADMIUM PLATE AMS 2400. DIMENSIONS SPECIFIED ARE AFTER PLATING.
- MANUFACTURING SPECIFICATION: AMS 7452 EXCEPT HEAD SHALL BE UPSET.
- HEAD TO SHANK FILLET SHALL BE COLD WORKED.
- MAGNETIC PARTICLE INSPECTION PER AMS 2640 AFTER PLATING.
- SURFACE TEXTURE: USAS B46.1-1962. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES EXCEPT UPSET HEAD.
- BREAK SHARP EDGES .003-.015 UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ±.010, ANGULAR DIMENSIONS ±5°.
- DO NOT USE UNASSIGNED PART NUMBERS.

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P.A. AIR FORCE - 11 NAVY - AS	TITLE	MILITARY STANDARD
	BOLT, MACHINE - DOUBLE HEXAGON EXTENDED WASHER HEAD, DRILLED, FULL SHANK, STEEL AMS 6322, CADMIUM PLATED, .3125-24 UNJF-3A	<b>MS 9943</b>
PROCUREMENT SPECIFICATION AMS-7452	SUPERSEDES:	SHEET 1 OF 1

DD FORM 672-1 (Limited coordination)  
ASD use only

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

U. S. GOVERNMENT PRINTING OFFICE: 1971-433-696-4867

APPROVED 30 Dec 70 REVISED