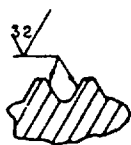
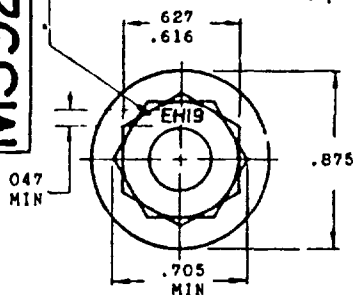


NOTICE: When Government drawings or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as an endorsement, approval, or recommendation of the holder or any other person or corporation, or conveying any rights of permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

**MS9224 (ASG)**

MATERIAL IDENTIFICATION  
RAISED OR DEPRESSED .010 MAX

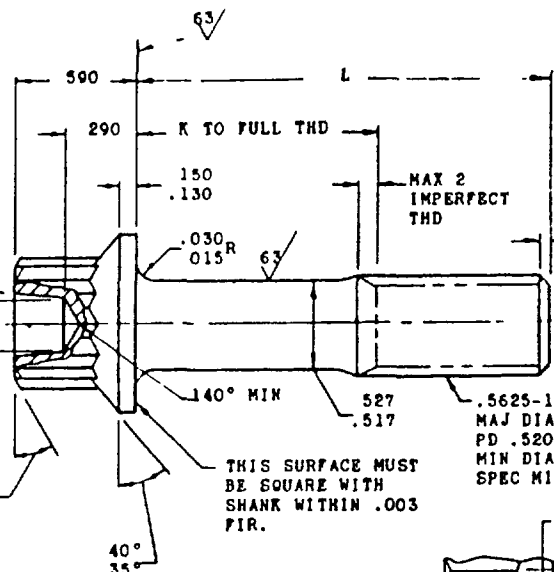


SECTION THRU THREAD PROFILE

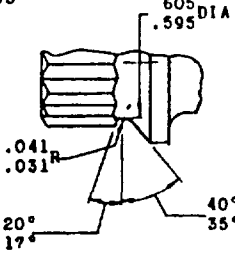
CHAMFER 25°-35°  
TO .625 DIA

5° MAX

370 DIA



THIS SURFACE MUST  
BE SQUARE WITH  
SHANK WITHIN .003  
FIR.



OPTIONAL SHAPE OF HEAD

FED SUP CLASS  
5306

PART NO	L	K +.000 -.060	APPROX WEIGHT LBS/100	PART NO.	L	K +.000 -.060	APPROX WEIGHT LBS/100	PART NO.	L	K +.000 -.060	APPROX WEIGHT LBS/100
MS9224-06	1.000	(a)	11.91	MS9224-23	2.375	1.000	19.63	MS9224-40	4.500	3.125	31.62
MS9224-07	1.062	(a)	12.26	MS9224-24	2.500	1.125	20.34	MS9224-41	4.625	3.250	32.32
MS9224-08	1.125	(a)	12.61	MS9224-25	2.625	1.250	21.04	MS9224-42	4.750	3.375	33.03
MS9224-09	1.188	(a)	12.96	MS9224-26	2.750	1.375	21.75	MS9224-43	4.875	3.500	33.73
MS9224-10	1.250	(a)	13.31	MS9224-27	2.875	1.500	22.45	MS9224-44	5.000	3.625	34.44
MS9224-11	1.312	(a)	13.66	MS9224-28	3.000	1.625	23.16	MS9224-45	5.125	3.750	35.14
MS9224-12	1.375	(a)	14.01	MS9224-29	3.125	1.750	23.86	MS9224-46	5.250	3.875	35.85
MS9224-13	1.438	(a)	14.36	MS9224-30	3.250	1.875	24.57	MS9224-47	5.375	4.000	36.55
MS9224-14	1.500	.125	14.71	MS9224-31	3.375	2.000	25.27	MS9224-48	5.500	4.125	37.26
MS9224-15	1.562	.188	15.06	MS9224-32	3.500	2.125	25.98	MS9224-49	5.625	4.250	37.96
MS9224-16	1.625	.250	15.41	MS9224-33	3.625	2.250	26.68	MS9224-50	5.750	4.375	38.67
MS9224-17	1.688	.312	15.76	MS9224-34	3.750	2.375	27.39	MS9224-51	5.875	4.500	39.37
MS9224-18	1.750	.375	16.11	MS9224-35	3.875	2.500	28.09	MS9224-52	6.000	4.625	40.08
MS9224-19	1.875	.500	16.81	MS9224-36	4.000	2.625	28.80				
MS9224-20	2.000	.625	17.51	MS9224-37	4.125	2.750	29.50				
MS9224-21	2.125	.750	18.21	MS9224-38	4.250	2.875	30.21				
MS9224-22	2.250	.875	18.93	MS9224-39	4.375	3.000	30.91				

(a) THREAD TO HEAD. MAXIMUM TWO IMPERFECT THREADS.

- NOTE: (1) SHANK SHALL BE STRAIGHT WITHIN .002 FIR. PER INCH OF BOLT LENGTH.  
(2) THE CONCENTRICITY OF THREAD PD IN RELATION TO THE SHANK SHALL BE WITHIN .006 FIR.  
(3) THE CONCENTRICITY OF THE SHANK IN RELATION TO THE WASHER FACE DIAMETER AND 12 POINT OD SHALL BE WITHIN .026 FIR.

MATERIAL: CORROSION AND HEAT RESISTANT STEEL AMS 5735  
MANUFACTURING SPECIFICATION: AMS 7478  
PART SUBJECT TO FLUORESCENT PENETRANT INSPECTION PER AMS 2645  
SURFACE ROUGHNESS: AS 291  
BREAK SHARP EDGES .003-.015 UNLESS OTHERWISE SPECIFIED.  
DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED: TOLERANCES: LINEAR DIMENSIONS: .010  
DO NOT USE UNASSIGNED PART NUMBERS.

Ⓐ INACTIVE FOR NEW DESIGN AFTER 31 DECEMBER 1963.

THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE ENGINE AND PROPELLER UTILITY PARTS COMMITTEE OF THE SAE.  
(A) FOR CHANGES SEE SHEETS 1 AND 2.

CUSTODIAN Navy- Mops USAF - ASD	<b>MILITARY STANDARD</b>	<b>MS9224 (ASG)</b>
PROCUREMENT SPECIFICATION NONE	BOLT-MACHINE, 12 POINT HEAD HEAT RESISTANT, .5625-18 AMS 5735	SHEET 1 OF 2

FED. SUP. CLAS.  
5306

DASH NO.	FIIN	DASH NO.	FIIN	DASH NO.	FIIN
-06		-23		-40	
-07		-24		-41	
-08		-25		-42	
-09		-26		-43	
-10		-27		-44	
-11		-28		-45	
-12		-29		-46	
-13		-30		-47	
-14		-31		-48	
-15		-32		-49	
-16		-33		-50	
-17		-34		-51	
-18		-35		-52	
-19		-36			
-20		-37			
-21		-38			
-22		-39			

Ⓐ INACTIVE FOR NEW DESIGN AFTER 31 DECEMBER 1963.

THIS DOCUMENT HAS BEEN PROMULGATED BY THE DEPARTMENT OF DEFENSE AS THE MILITARY STANDARD TO LIMIT THE SELECTION OF THE ITEM, PRODUCT, OR DESIGN COVERED HEREIN IN ENGINEERING, DESIGN, AND PROCUREMENT. THIS STANDARD SHALL BECOME EFFECTIVE NOT LATER THAN 90 DAYS AFTER THE LATEST DATE OF APPROVAL SHOWN.

CUSTODIANS Navy - Weps USAF - ASD	OTHER INT. A - N - AF -	<b>MILITARY STANDARD</b>		<b>MS9224</b> (ASG)
		BOLT-MACHINE, 12 POINT HEAD RESISTANT, .5625-18 AMS 5735		
PROCUREMENT SPECIFICATION NONE		SUPERSEDES:		SHEET 2 OF

DD FORM 672-1  
1 OCT 62

APPROVED 3 JUL 58 REVISED Ⓐ FOR CHANGES SEE SHEETS 1 AND 2.

NOTES: When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have furnished, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.