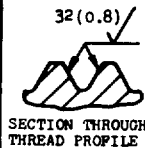
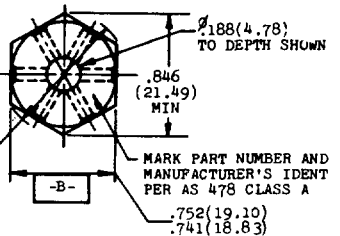


MS9962FED. SUP CLASS
5306

CSK 90° TO $\phi .100(2.54)$
6 HOLES EQUALLY SPACED

$\phi .070(1.78)$
 $\phi .100(2.54)$
 $\phi .020(0.51)$



$\phi .023(0.58)$

CHAM 30° TO $\phi .750(19.05)$
(OPPOSITE SIDE OPTIONAL)

$\phi .003(0.08)$

32(0.8)

.344(8.74)

.264(6.71)

.160(4.06)

.016(0.41)
OR CHAM

.030(0.76)
.020(0.51)R

32(0.8)

.031(0.79) MIN
INCOMPLETE
THREADS
(SEE NOTE 2)

.500-20UNJF-3A
MIL-S-8879

-A-

CHAMFER .047(1.19)
X 45° ±10°

A .006(0.15)

.002/1(S)

-C- SEE NOTE 1

$\phi .710(18.04)$ MIN
BEARING SURFACE

VIEW A

1. FOR PART NUMBERS MS9962-03 THRU MS9962-24 THE THREAD PD SHALL REPLACE DATUM C.
2. INCOMPLETE THREADS NOT TO ENTER FILLET.
3. MATERIAL: STEEL AMS 6322.
4. HARDNESS: ROCKWELL C26-32.
5. FINISH: CADMIUM PLATE AMS 2400. DIMENSIONS SPECIFIED ARE AFTER PLATING.
6. MANUFACTURING SPECIFICATION: AMS 7452 EXCEPT HEAD SHALL BE UPSET.
7. HEAD TO SHANK FILLET SHALL BE COLD WORKED.
8. MAGNETIC PARTICLE INSPECTION PER AMS 2640 AFTER PLATING.
9. SURFACE TEXTURE: ANSI B46.1-1962. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES (3.2 MICROMETERS) EXCEPT UPSET HEAD.
10. BREAK SHARP EDGES .003-.015 (0.08-0.38) UNLESS OTHERWISE SPECIFIED.
11. DIMENSIONS IN INCHES. METRIC CONVERSIONS ARE IN PARENTHESES. UNLESS OTHERWISE SPECIFIED: TOLERANCES; LINEAR DIMENSIONS ±.010 (0.25), ANGULAR DIMENSIONS ±5°.
12. INTERNATIONAL SYSTEM UNITS (SI) SHOWN ARE FOR REFERENCE ONLY.
13. DIMENSIONING AND TOLERANCING: ANSI Y14.5-1966, ϕ = DIAMETER.
13. DO NOT USE UNASSIGNED PART NUMBERS.

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STANDARDS DIVISION.

P.A. Air Force - II

Other Cast
Army - AV
Navy - AS

TITLE

BOLT, MACHINE, HEXAGON HEAD, DRILLED, 6 HOLE,
PD SHANK, STEEL AMS 6322, CADMIUM PLATED,
.500-20UNJF-3A

MILITARY STANDARD

MS9962

PROCUREMENT SPECIFICATION

SUPERSEDES:

SHEET 1 OF 2

DD FORM 672-1
ASG use only

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

5306-0497

APPROVED 27 Jun 74 REVISED

User activities:
Army
Navy
Air Force
AS A

Review activities:
Army
Navy
Air Force
AS A

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

User activities:
Army
Navy
Air Force
O S F

Review activities:
Army
Navy
Air Force
USF

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

MS9962

PART NUMBER	L		Q MIN		K MAX		APPROX MASS		PART NUMBER	L		G MIN		K MAX		APPROX MASS	
	IN.	(mm)	IN.	(mm)	IN.	(mm)	LB/100	kg/100		IN.	(mm)	IN.	(mm)	IN.	(mm)	LB/100	kg/100
MS9962-03	.750	19.05	.030	0.77	.125	3.17	7.99	3.624	MS9962-31	3.000	76.20	1.590	40.39	1.750	44.45	18.88	8.564
MS9962-04	.812	20.62	.030	0.77	.125	3.17	8.28	3.756	MS9962-32	3.125	79.38	1.715	43.57	1.875	47.62	18.49	8.413
MS9962-05	.875	22.12	.030	0.77	.125	3.17	8.58	3.896	MS9962-33	3.250	82.55	1.640	49.02	2.125	53.97	20.70	9.389
MS9962-06	.938	23.82	.030	0.77	.125	3.17	8.90	4.037	MS9962-34	3.375	85.70	2.090	53.09	2.250	57.15	21.30	9.662
MS9962-07	1.000	25.40	.030	0.77	.125	3.17	9.21	4.178	MS9962-35	3.500	88.90	2.040	51.81	2.375	60.32	21.90	9.934
MS9962-08	1.062	26.97	.030	0.77	.125	3.17	9.53	4.318	MS9962-36	3.625	92.08	2.215	56.27	2.500	63.50	22.51	10.210
MS9962-09	1.125	28.58	.030	0.77	.125	3.17	9.85	4.454	MS9962-37	3.750	95.25	2.340	59.44	2.625	66.67	23.11	10.482
MS9962-10	1.188	30.18	.030	0.77	.125	3.17	10.12	4.590	MS9962-38	3.875	98.42	2.465	62.62	2.750	69.85	23.72	10.759
MS9962-11	1.250	31.75	.030	0.77	.125	3.17	10.42	4.726	MS9962-39	4.000	101.60	2.590	65.79	2.875	73.02	24.32	11.031
MS9962-12	1.312	33.32	.030	0.77	.125	3.17	10.73	4.867	MS9962-40	4.125	104.78	2.715	68.97	3.000	76.20	24.92	11.304
MS9962-13	1.375	34.92	.030	0.77	.125	3.17	11.03	5.003	MS9962-41	4.250	107.95	2.945	72.14	3.125	79.37	25.53	11.580
MS9962-14	1.438	36.52	.030	0.77	.125	3.17	11.33	5.139	MS9962-42	4.375	111.12	3.090	78.49	3.250	82.55	26.13	11.852
MS9962-15	1.500	38.10	.030	0.77	.125	3.17	11.63	5.275	MS9962-43	4.500	114.30	3.215	81.67	3.375	85.72	26.74	12.129
MS9962-16	1.562	39.67	.152	3.87	.312	7.92	11.93	5.411	MS9962-44	4.625	117.47	3.340	84.84	3.500	88.90	27.34	12.402
MS9962-17	1.625	41.28	.215	5.47	.438	11.12	12.24	5.552	MS9962-45	4.750	120.65	3.465	88.02	3.625	92.07	27.95	12.678
MS9962-18	1.688	42.88	.278	7.07	.498	12.84	12.54	5.688	MS9962-46	4.875	123.82	3.590	91.09	3.750	95.25	28.55	12.950
MS9962-19	1.750	44.45	.310	8.64	.500	12.79	12.84	5.824	MS9962-47	5.000	127.00	3.715	94.21	3.875	98.42	29.15	13.222
MS9962-20	1.812	46.03	.402	10.22	.562	14.27	13.14	5.960	MS9962-48	5.125	130.18	3.840	97.34	4.000	101.60	29.76	13.499
MS9962-21	1.875	47.62	.465	11.82	.625	15.88	13.44	6.096	MS9962-49	5.250	133.35	3.965	100.72	4.125	104.77	30.36	13.771
MS9962-22	1.938	49.22	.528	13.42	.688	17.47	13.74	6.236	MS9962-50	5.375	136.52	4.090	103.89	4.250	107.95	30.97	14.048
MS9962-23	2.000	50.81	.590	15.00	.750	19.05	14.05	6.376	MS9962-51	5.500	139.70	4.215	107.07	4.375	111.12	31.57	14.320
MS9962-24	2.062	52.40	.652	16.56	.812	20.62	14.35	6.516	MS9962-52	5.625	142.88	4.340	110.24	4.500	114.30	32.18	14.597
MS9962-25	2.125	53.98	.715	18.17	.875	22.22	14.65	6.656	MS9962-53	5.750	146.05	4.465	113.42	4.625	117.47	32.78	14.869
MS9962-26	2.188	55.58	.778	19.75	.938	23.82	14.95	6.796	MS9962-54	5.875	149.22	4.590	116.59	4.750	120.65	33.38	15.141
MS9962-27	2.250	57.15	.840	21.34	1.000	25.40	15.24	6.932	MS9962-55	6.000	152.40						
MS9962-28	2.312	58.75	.902	22.93	1.062	26.97	15.54	7.072									
MS9962-29	2.375	60.32	.965	24.52	1.125	28.57	15.80	7.194									
MS9962-30	2.438	61.92	1.028	26.11	1.188	30.18	16.09	7.316									
MS9962-31	2.500	63.50	1.090	27.59	1.250	31.75	16.47	7.471									
MS9962-32	2.562	65.09	1.152	30.17	1.312	33.32	16.77	7.613									
MS9962-33	2.625	66.67	1.215	30.87	1.375	34.92	17.07	7.743									
MS9962-34	2.688	68.25	1.278	32.46	1.438	36.52	17.37	7.873									
MS9962-35	2.750	69.85	1.340	34.04	1.500	38.10	17.67	8.015									
MS9962-36	2.812	71.43	1.402	35.63	1.562	39.67	17.97	8.155									
MS9962-37	2.875	73.02	1.465	37.22	1.625	41.28	18.27	8.292									
MS9962-38	2.938	74.62	1.528	38.81	1.688	42.88	18.57	8.429									
MS9962-39	3.000	76.20	1.590	40.39	1.750	44.45	18.87	8.564									
MS9962-40	3.062	77.81	1.652	41.99	1.812	46.03	19.17	8.699									
MS9962-41	3.125	79.38	1.715	43.57	1.875	47.62	19.47	8.834									
MS9962-42	3.188	80.98	1.778	45.17	1.938	49.22	19.77	8.969									
MS9962-43	3.250	82.55	1.840	46.77	2.000	50.81	20.07	9.104									
MS9962-44	3.312	84.15	1.902	48.37	2.062	52.40	20.37	9.239									
MS9962-45	3.375	85.74	1.965	49.97	2.125	53.98	20.67	9.374									
MS9962-46	3.438	87.34	2.028	51.57	2.188	55.58	20.97	9.509									
MS9962-47	3.500	88.94	2.090	53.17	2.250	57.15	21.27	9.644									
MS9962-48	3.562	90.54	2.152	54.77	2.312	58.75	21.57	9.779									
MS9962-49	3.625	92.14	2.215	56.37	2.375	60.32	21.87	9.914									
MS9962-50	3.688	93.74	2.278	57.97	2.438	61.92	22.17	10.049									
MS9962-51	3.750	95.34	2.340	59.57	2.500	63.50	22.47	10.184									
MS9962-52	3.812	96.94	2.402	61.17	2.562	65.09	22.77	10.319									
MS9962-53	3.875	98.54	2.465	62.77	2.625	66.67	23.07	10.454									
MS9962-54	3.938	100.14	2.528	64.37	2.688	68.25	23.37	10.589									
MS9962-55	4.000	101.74	2.590	65.97	2.750	69.85	23.67	10.724									
MS9962-56	4.062	103.34	2.652	67.57	2.812	71.43	23.97	10.859									
MS9962-57	4.125	104.94	2.715	69.17	2.875	73.02	24.27	10.994									
MS9962-58	4.188	106.54	2.778	70.77	2.938	74.62	24.57	11.129									
MS9962-59	4.250	108.14	2.840	72.37	3.000	76.20	24.87	11.264									
MS9962-60	4.312	109.74	2.902	73.97	3.062	77.81	25.17	11.399									
MS9962-61	4.375	111.34	2.965	75.57	3.125	79.38	25.47	11.534									
MS9962-62	4.438	112.94	3.028	77.17	3.188	80.98	25.77	11.669									
MS9962-63	4.500	114.54	3.090	78.77	3.250	82.55	26.07	11.804									
MS9962-64	4.562	116.14	3.152	80.37	3.312	84.15	26.37	11.939									
MS9962-65	4.625	117.74	3.215	81.97	3.375	85.74	26.67	12.074									
MS9962-66	4.688	119.34	3.278	83.57	3.438	87.34	26.97	12.209									
MS9962-67	4.750	120.94	3.340	85.17	3.500	88.94	27.27	12.344									
MS9962-68	4.812	122.54	3.402	86.77	3.562	90.54	27.57	12.479									
MS9962-69	4.875	124.14	3.465	88.37	3.625	92.14	27.87	12.614									
MS9962-70	4.938	125.74	3.528	89.97	3.688	93.74	28.17	12.749									
MS9962-71	5.000	127.34	3.590	91.57	3.750	95.34	28.47	12.884									
MS9962-72	5.062	128.94	3.652	93.17	3.812	96.94	28.77	13.019									
MS9962-73	5.125	130.54	3.715	94.77	3.875	98.54	29.07	13.154									
MS9962-74	5.188	132.14	3.778	96.37	3.938	100.14	29.37	13.289									
MS9962-75	5.250	133.74	3.840	97.97	4.000	101.74	29.67	13.424									
MS9962-76	5.312	135.34	3.902	99.57	4.062	103.34	29.97	13.559									
MS9962-77	5.375	136.94	3.965	101.17	4.125	104.94	30.27	13.694									
MS9962-78	5.438	138.54	4.028	102.77	4.188	106.54	30.57	13.829									
MS9962-79	5.500	140.14	4.090	104.37	4.250	108.14	30.87	13.964									
MS9962-80	5.562	141.74	4.152	105.97	4.312	109.74	31.17	14.099									
MS9962-81	5.625	143.34	4.215	107.57	4.375	111.34	31.47	14.234									
MS9962-82	5.688	144.94	4.278	109.17	4.438	112.94	31.77	14.369									
MS9962-83	5.750	146.54	4.340	110.77	4.500	114.54	32.07	14.504									
MS9962-84																	

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STANDARDS DIVISION.

P.A. Air Force - II Other Cust Army - AV Navy - AS	TITLE BOLT, MACHINE, HEXAGON HEAD, DRILLED, 6 HOLE, RD SHANK, STEEL AMS 6322, CADMIJM PLATED, .500-20UNJF-3A	MILITARY STANDARD
		MS9962
PROCUREMENT SPECIFICATION	SUPERSEDES:	SHEET 2 OF 2

DD FORM 672-1
1 SEP 57
ASG use only

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

5306-0497

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APPROVED	27 Jun 74	REVISED
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