

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE
DEPARTMENT OF DEFENSE

Form Approved
OMB No. 0704-0188

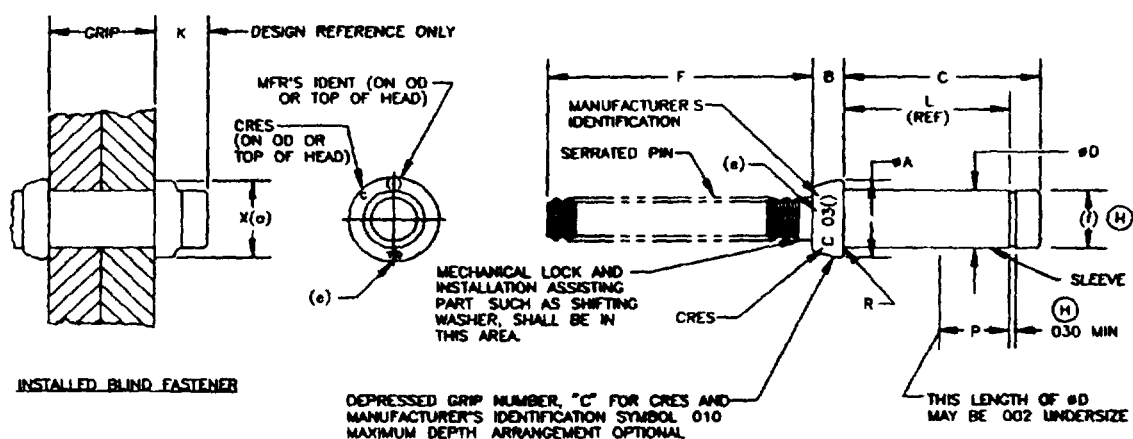


TABLE 1. FASTENER DIMENSIONS AND STRENGTHS.

SIZE DASH NUMBER (b)			NOM SIZE	øA	B	øD	F MIN.	K		P MAX.	R RAD MAX	X (a) MIN	INSTALLED FASTENER		(H) HOLE LIMITS (REF)						
DOUBLE ACTION	SINGLE ACTION							MIN	MAX				MIN	MAX		MIN	MAX	MIN	MAX	MIN	MAX
	(c)	(c)																			
-05	S05	U05	5/32	272 250	070 062	.164 182	.844	.202	.120	.215	010	.193	1980	1150	167 184						
-06	S06	U06	3/16	332 305	135 125	.199 197	.873	.231	.148	.250	015	.238	2925	1690	202 199						
-	-08	U08	1/4	432 400	140 130	.280 258	1.000	.279	.188	.305	018	.315	5000	2900	263 280						
-	-10	U10	5/16	522 480	.141 131	.312 310	1.218	.319	.224	.350	021	.373	7200	4170	315 312						
-	-12	U12	3/8	627 580	.205 195	.374 372	1.562	.364	.284	.405	025	.448	10380	5970	377 374						

- (a) MAXIMUM DIAMETER OF BLIND HEAD (X) SHALL NOT EXCEED MAXIMUM DIAMETER OF MANUFACTURED HEAD (A)
- (b) SIZES "05" AND "06" WITH "-" ARE INSTALLED WITH A DOUBLE ACTION TOOL. ALL OTHER SIZES ARE INSTALLED WITH A SINGLE ACTION TOOL. SIZES "U05" AND "U06" MAY BE INSTALLED WITH A DOUBLE OR SINGLE ACTION TOOL. SEE APPENDIX A OF MIL-F-8975 FOR TOOL SELECTION CHART
- (c) ~~-05, -06, S05, S06, 08, 10, AND 12~~ ARE INACTIVE FOR NEW DESIGN AFTER 1 JAN 91. USE U05, U06, S05 AND S06
- (d) LETTER "U" SIGNIFIES SINGLE ACTION FASTENER WITHOUT FRANGIBLE TYPE OF LOCKING COLLAR OR LOCKING COLLAR CAP. "U" AND "S" CODE FASTENERS IN SIZES "05" AND "06" ARE COLOR IDENTIFIED GREEN ON LOCKING COLLAR SHIFTING WASHER, OR SERRATED PIN. "S" CODE FASTENERS MAY BE SUPPLIED WITH A LOCKING COLLAR CAP
- (e) SINGLE DIGIT MARKING IS PERMISSIBLE FOR GRIP DASH NUMBERS LESS THAN 10
- (f) DIAMETER OF SERRATED PIN HEAD SHALL NOT EXCEED ".010" MAX AND MAY BE .002 BELOW ".010" MIN. IN AREA "P" ONLY

(H) DENOTES CHANGE(S)

INCH - POUND

PREPARING ACTIVITY DLA - IS
CUSTODIANS ARMY - AV NAVY - AS
AIR FORCE - 99 DLA -
REVIEW: MW, 82
USER:
PROJECT NUMBER 5320-0808
DISTRIBUTION STATEMENT

MILITARY SPECIFICATION SHEET

TITLE

**FASTENER, BLIND, HIGH STRENGTH,
PULL TYPE, POSITIVE MECHANICAL
LOCK, PROTRUDING HEAD, CORROSION
RESISTING STEEL, 95 KSI F_u**

SPECIFICATION SHEET NUMBER	
MS21141	31 MAR 1994 REV H
SUPERSEDING	
MS21141 G 24 DEC 90	
AMSC - N/A	FSC 3320

DISTRIBUTION STATEMENT

A. Approved for public release, distribution is unlimited

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THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION
SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDS SPECIFIED IN
THE SOLICITATION: MIL-F-8975

TABLE H GRIP TABULATIONS										Form Approved OMB No 0704-0188																					
H			H			H			H																						
9/32 (-05)			9/16 (-06)			9/16 (-08)			9/16 (-10)																						
GRIP DASH NO	GRIP RANGE		L	C	MAX	GRIP DASH NO	GRIP RANGE		L	C	MAX	GRIP DASH NO	GRIP RANGE		L	C	MAX	GRIP DASH NO	GRIP RANGE		L	C	MAX								
	MIN	MAX					MIN	MAX					MIN	MAX					MIN	MAX				MIN	MAX						
-0501	031	096	217	372	595	-0602	120	157	344	553	828	-1002	094	157	344	553	828	-1202	094	157	344	553	828	-1202	094	157	344	553	828		
-0502	094	157	280	434	657	-0603	156	220	541	805	1094	-0604	219	282	541	805	1094	-0605	281	345	608	872	-0606	344	407	670	933	-0607	406	470	733
-0503	156	220	342	496	720	-0608	219	282	541	805	1094	-0609	281	345	608	872	1156	-0610	344	407	670	933	-0611	406	470	733	996	-0612	469	532	796
-0504	219	282	359	455	657	-0613	281	345	608	872	1156	-0614	344	407	670	933	1219	-0615	406	470	733	996	-0616	469	532	796	1059	-0617	532	595	860
-0505	281	345	422	487	657	-0618	344	407	670	933	1219	-0619	406	470	733	1281	-0620	469	532	796	1059	-0621	532	595	860	1112	-0622	595	658	923	
-0506	344	407	484	530	657	-0623	406	470	733	996	1281	-0624	469	532	796	1344	-0625	532	595	860	1112	-0626	595	658	923	1176	-0627	658	721	985	
-0507	406	470	552	608	720	-0628	469	532	796	1059	1344	-0629	532	595	860	1406	-0630	595	658	923	1176	-0631	658	721	985	1239	-0632	721	784	1048	
-0508	469	532	655	711	828	-0633	532	595	860	1112	1406	-0634	595	658	923	1469	-0635	658	721	985	1239	-0636	721	784	1048	1531	-0637	784	847	1110	
-0509	531	595	717	872	1094	-0638	595	658	923	1281	1531	-0639	658	721	985	1594	-0640	721	784	1048	1531	-0641	784	847	1110	1656	-0642	847	910	1173	
-0510	594	657	834	934	1156	-0643	657	720	985	1281	1594	-0644	720	782	1048	1656	-0645	782	845	907	1331	-0646	845	906	969	1032	-0647	906	969	1032	
-0511	657	720	896	996	1219	-0648	720	782	1048	1656	1719	-0649	782	845	907	1394	-0650	845	906	969	1095	-0651	906	969	1032	1156	-0652	969	1032	1156	
-0512	719	782	959	1059	1281	-0653	782	845	907	1394	1719	-0654	845	906	969	1156	-0655	906	969	1032	1219	-0656	969	1032	1156	1281	-0657	1032	1095	1331	
-0513	781	844	1022	1122	1344	-0658	844	907	1229	1394	1881	-0659	906	969	1032	1311	-0660	969	1032	1156	1374	-0661	1032	1095	1331	1436	-0662	1095	1158	1394	
-0514	844	907	1084	1184	1406	-0663	906	969	1032	1374	1944	-0664	969	1032	1156	1436	-0665	1032	1095	1331	1497	-0666	1095	1158	1394	1559	-0667	1158	1221	1485	
-0515	906	969	1144	1244	1566	-0668	969	1032	1374	1559	2006	-0669	1032	1095	1331	1594	-0670	1095	1158	1394	1619	-0671	1158	1221	1485	1681	-0672	1221	1284	1548	
-0516	969	1032	1206	1306	1628	-0673	1032	1095	1331	1681	2068	-0674	1095	1158	1394	1644	-0675	1158	1221	1485	1681	-0676	1221	1284	1548	1746	-0677	1284	1347	1610	
						-0678	1095	1158	1394	1746	2129	-0679	1158	1221	1485	1706	-0680	1221	1284	1548	1746	-0681	1284	1347	1610	1769	-0682	1347	1410	1672	
						-0683	1158	1221	1485	1808	2190	-0684	1221	1284	1548	1769	-0685	1284	1347	1610	1782	-0686	1347	1410	1672	1830	-0687	1410	1473	1735	
						-0688	1221	1284	1548	1869	2251	-0689	1284	1347	1610	1830	-0690	1347	1410	1672	1869	-0691	1410	1473	1735	1931	-0692	1473	1536	1798	
						-0693	1284	1347	1610	1931	2312	-0694	1347	1410	1672	1891	-0695	1410	1473	1735	1931	-0696	1473	1536	1798	2002	-0697	1536	1599	2065	
						-0698	1347	1410	1672	1992	2373	-0699	1410	1473	1735	1952	-0700	1473	1536	1798	2002	-0701	1536	1599	2065	2113	-0702	1599	1662	2176	
						-0703	1410	1473	1735	2053	2434	-0704	1473	1536	1798	2013	-0705	1536	1599	2065	2113	-0706	1599	1662	2176	2176	-0707	1662	1725	2239	
						-0708	1473	1536	1798	2114	2495	-0709	1536	1599	2065	2175	-0710	1599	1662	2176	2239	-0711	1662	1725	2239	2239	-0712	1725	1788	2302	
						-0713	1536	1599	2065	2175	2556	-0714	1599	1662	2176	2239	-0715	1662	1725	2239	2239	-0716	1725	1788	2302	2302	-0717	1788	1851	2365	
						-0718	1599	1662	2176	2239	2617	-0719	1662	1725	2239	2239	-0720	1725	1788	2302	2302	-0721	1788	1851	2365	2365	-0722	1851	1914	2428	
						-0723	1662	1725	2239	2239	2678	-0724	1725	1788	2302	2302	-0725	1788	1851	2365	2365	-0726	1851	1914	2428	2428	-0727	1914	1977	2491	
						-0728	1725	1788	2302	2302	2739	-0729	1788	1851	2365	2365	-0730	1851	1914	2428	2428	-0731	1914	1977	2491	2491	-0732	1977	2040	2554	
						-0733	1788	1851	2365	2365	2800	-0734	1851	1914	2428	2428	-0735	1914	1977	2491	2491	-0736	1977	2040	2554	2554	-0737	2040	2103	2617	
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						-0748	1977	2040	2554	2554	2983	-0749	2040	2103	2617	2617	-0750	2103	2166	2680	2680	-0751	2166	2229	2743	2743	-0752	2229	2292	2806	
						-0753	2040	2103	2617	2617	3044	-0754	2103	2166	2680	2680	-0755	2166	2229	2743	2743	-0756	2229	2292	2806	2806	-0757	2292	2355	2869	
						-0758	2103	2166	2680	2680	3105	-0759	2166	2229	2743	2743	-0760	2229	2292	2806	2806	-0761	2292	2355	2869	2869	-0762	2355	2418	2932	
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						-0768	2229	2292	2806	2806	3227	-0769	2292	2355	2869	2869	-0770	2355	2418	2932	2932	-0771	2418	2481	2995	2995	-0772	2481	2544	3058	
						-0773	2292	2355	2869	2869	3288	-0774	2355	2418	2932	2932	-0775	2418	2481	2995	2995	-0776	2481	2544	2995	2995	-0777	2544	2607	3121	
						-0778	2355	2418	2932	2932	3349	-0779	2418	2481	2995	2995	-0780	2481	2544	2995	2995	-0781	2544	2607	3121	3121	-0782	2607	2670	3184	
						-0783	2418	2481	2995	2995	3410	-0784	2481	2544	2995	2995	-0785	2544	2607	3121	3121	-0786	2607	2670	3121	3121	-0787	2670	2733	3247	
						-0788	2481	2544	2995	2995	3471	-0789	2544	2607	3121	3121	-0790	2607	2670	3121	3121	-0791	2670	2733	3121	3121	-0792	2733	2796	3310	
						-0793	2544	2607	3121	3121	3532	-0794	2607	2670	3121	3121	-0795	2670	2733	3121	3121	-0796	2								

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DOCS SPECIFIED IN THE SOLICITATION MIL-F-8975

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Form Approved
OMB No 0704-0188

REQUIREMENTS

1 MATERIAL

SLEEVE CORROSION RESISTING STEEL PER CHEMICAL REQUIREMENTS OF AMS5737 (A286)
SERRATED PIN CORROSION RESISTING STEEL PER CHEMICAL REQUIREMENTS OF AMS5737 (A286)
MECHANICAL LOCK CORROSION RESISTING STEEL PER CHEMICAL REQUIREMENTS OF AMS5737 OR TYPE 316 CRES CONFORMING TO THE CHEMICAL REQUIREMENTS OF AMS5690

2 PROTECTIVE TREATMENT

SLEEVE PASSIVATION PER QQ-P-35 OR CADMIUM PLATING PER QQ-P-416 TYPE II (CLEAR DICHROMATE), CLASS 2
SERRATED PIN PASSIVATION PER QQ-P-35
MECHANICAL LOCK PASSIVATION PER QQ-P-35

3 LUBRICATION WHEN LUBRICATED PARTS SHALL BE LUBRICATED PER MIL-L-46010, TYPE I OR MIL-L-87132

4 HOLE PREPARATION SEE MS33522 EXCEPT FOR HOLE SIZES SHOWN IN MIL-F-8975

(H) 5 EXAMPLE OF PART NUMBER (FOR INACTIVE CODES SEE SHEET 1, FOOTNOTE (c))

MS21141 - 0803P = 1/4 DIA. NOM SIZE 158 MIN GRIP CADMIUM PLATED, INSTALLED WITH A SINGLE ACTION TOOL

"P" DENOTES CADMIUM PLATING

NO CODE DENOTES PASSIVATION TREATMENT

GRIP RANGE (SEE TABLE II)

SIZE DASH NUMBER (SEE TABLE I)

- DENOTES FASTENERS INSTALLED WITH A DOUBLE ACTION TOOL, FOR SIZES 05 AND 06

'-' DENOTES FASTENERS INSTALLED WITH A SINGLE ACTION TOOL, FOR SIZES 08 10 AND 12.

'S' DENOTES FASTENERS INSTALLED WITH A SINGLE ACTION TOOL, FOR SIZES 05 AND 06

U DENOTES SINGLE ACTION TOOL FASTENERS INSTALLED WITH A SINGLE ACTION TOOL, FOR ALL SIZES (SEE SHEET 1, FOOTNOTE(d))

MS NUMBER

NOTES

1 DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCES DECIMALS ± 0.10

(H) 2 IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS DOCUMENT AND THE REFERENCES CITED HEREIN THE TEXT OF THIS DOCUMENT SHALL TAKE PRECEDENCE

(H) 3 UNLESS OTHERWISE SPECIFIED, ISSUES OF REFERENCED DOCUMENTS ARE THOSE IN EFFECT AT THE TIME OF SOLICITATION

PREPARING ACTIVITY DLA - IS

CUSTODIANS ARMY - AV NAVY - AS

AIR FORCE - 99 DLA -

REVIEW MI, 82

USER

PROJECT NUMBER 5320-0808

DISTRIBUTION STATEMENT

MILITARY SPECIFICATION SHEET

TITLE
FASTENER, BLIND, HIGH STRENGTH,
PULL TYPE, POSITIVE MECHANICAL
LOCK, PROTRUDING HEAD CORROSION
RESISTING STEEL, 95 KSI F_u

SPECIFICATION SHEET NUMBER

MS21141 31 MAR 1994
REV H

SUPERSEDING

MS21141 G 24 DEC 90

AMSC - N/A

FSC 5320

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DD Form 672, MAY 88

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