

Form Approved
 OAS No. 0704-0100

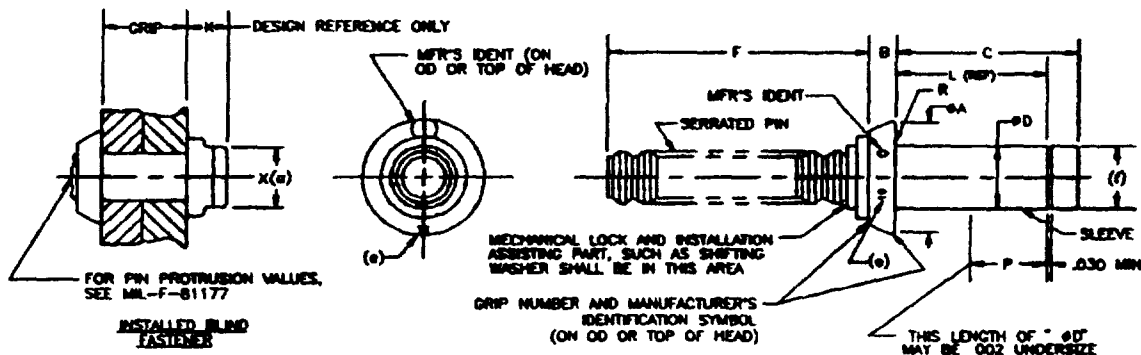


TABLE I. FASTENER DIMENSIONS AND STRENGTHS

SIZE DASH NUMBER	DOUBLE ACTION	SINGLE ACTION	NOM. SIZE	6A	B	6D	F	K	P	R	X	INSTALLED FASTENER		HOLE LIMITS
												MINIMUM SINGLE SHEAR LBS.	MINIMUM TENSILE LBS.	
(c)	(d)	(e)					MIN	MAX		RAD MAX	(e) MIN			
-.05	S05	U05	5/32	.272 .250	.070 .062	.184 .182	.844	.202	.215	.010	.195	2340	1350	.184 .187
-.06	S06	U06	3/16	.332 .308	.125 .125	.198 .197	.875	.231	.250	.015	.238	3450	2100	.188 .202
-	-08	U08	1/4	.432 .400	.140 .130	.280 .258	1.000	.278	.306	.018	.318	5900	3650	.280 .283
-	-10	U10	5/16	.522 .480	.141 .131	.312 .310	1.218	.319	.380	.021	.373	8500	5200	.312 .315
-	-12	U12	3/8	.627 .590	.186 .185	.374 .372	1.842	.384	.405	.025	.448	12200	7500	.374 .377
-	-14	U14	7/16	.727 .675	.207 .187	.437 .436	1.562	.419	.460	.030	.522	18700	10150	.437 .441
-	-16	U16	1/2	.832 .770	.270 .260	.498 .498	1.562	.540	.598	.035	.588	21800	13500	.500 .504

- (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 MIL-F-81177, APPENDIX A FOR TOOL SELECTION CHART
- (c) -.05, -.08, .095, .096, .08, .10, .12, .14 AND .16 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 ".06" AND ".08" 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 "#D" MAX AND MAY BE .002 BELOW "#D" MIN IN AREA "P" ONLY

① DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTIVITY: NAVY-AS CUSTODIANS: ARMY-AN NAVY-AS AIR FORCE-89 DLA-15 REVIEW: ML, 82 USER: PROJECT NUMBER: 5320-0816 DISTRIBUTION STATEMENT: A. Approved for public release, distribution is unlimited.	MILITARY SPECIFICATION SHEET TITLE FASTENER, BLIND, HIGH STRENGTH, PULL TYPE, POSITIVE MECHANICAL LOCK, PROTRUDING HEAD, ALA9Y STEEL, 112 K.B.J. Fou	SPECIFICATION SHEET NUMBER MS90354 28 FEB 84 REV T SUPERSEDING MS90354 R 13 AUG 1993 AMSC- N/A FSC 5320
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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 BOOKS SPECIFIED IN THE SOLICITATION: MIL-F-81177

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

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TABLE N GRIP NUMBER TABULATION

GRIP DASH NO	#5/32 (-05)			#3/16 (-06)			#1/4 (-08)			#5/16 (-10)			L REF		
	GRIP RANGE	C (U) MAX	L REF	GRIP DASH NO	GRIP RANGE	C (U) MAX	L REF	GRIP DASH NO	GRIP RANGE	C (U) MAX	L REF	GRIP DASH NO		GRIP RANGE	C (U) MAX
-0501	031	095	217	-0602	094	157	303	-0802	094	157	344	-1002	094	157	381
-0502	094	157	280	-0603	156	220	345	-0803	156	220	408	-1003	156	220	600
-0503	156	220	342	-0604	219	282	405	-0804	219	282	468	-1004	219	282	443
-0504	219	282	405	-0605	281	345	467	-0805	281	345	531	-1005	281	345	508
-0505	281	345	467	-0606	344	407	530	-0806	344	407	603	-1006	344	407	548
-0506	344	407	530	-0607	406	470	565	-0807	406	470	668	-1007	406	470	631
-0507	406	470	565	-0608	469	532	608	-0808	469	532	678	-1008	469	532	693
-0508	469	532	608	-0609	531	595	677	-0809	531	595	740	-1009	531	595	756
-0509	531	595	677	-0610	594	657	740	-0810	594	657	803	-1010	594	657	818
-0510	594	657	740	-0611	656	720	802	-0811	656	720	865	-1011	656	720	881
-0511	656	720	802	-0612	719	782	864	-0812	719	782	928	-1012	719	782	943
-0512	719	782	864	-0613	781	845	927	-0813	781	845	990	-1013	781	845	1006
-0513	781	845	927	-0614	844	907	990	-0814	844	907	1053	-1014	844	907	1068
-0514	844	907	990	-0615	906	970	1052	-0815	906	970	1115	-1015	906	970	1131
-0515	906	970	1052	-0616	969	1032	1114	-0816	969	1032	1178	-1016	969	1032	1193
-0516	969	1032	1114	-0617	1031	1095	1177	-0817	1031	1095	1240	-1017	1031	1095	1256
				-0618	1094	1157	1239	-0818	1094	1157	1303	-1018	1094	1157	1318
				-0619	1156	1220	1302	-0819	1156	1220	1365	-1019	1156	1220	1381
				-0620	1219	1282	1364	-0820	1219	1282	1428	-1020	1219	1282	1443
				-0621	1281	1345	1427	-0821	1281	1345	1490	-1021	1281	1345	1508
				-0622	1344	1407	1489	-0822	1344	1407	1553	-1022	1344	1407	1568
				-0623	1406	1470	1549	-0823	1406	1470	1616	-1023	1406	1470	1631
				-0624	1469	1532	1608	-0824	1469	1532	1671	-1024	1469	1532	1686
				-0625	1531	1595	1670	-0825	1531	1595	1734	-1025	1531	1595	1749
				-0626	1594	1657	1729	-0826	1594	1657	1797	-1026	1594	1657	1812
				-0627	1656	1720	1796	-0827	1656	1720	1859	-1027	1656	1720	1874
				-0628	1719	1782	1858	-0828	1719	1782	1921	-1028	1719	1782	1936
								-0629	1781	1845	1920	-1029	1781	1845	1968
								-0630	1844	1907	1983	-1030	1844	1907	2008
												-1031	1907	1983	2068
												-1032	1968	2032	2131
												-1033	1988	2052	2193
												-1034	1988	2052	2256

PREPARING ACTIVITY NAVY-AS CUSTODIANS. ARMY-AN NAVY-AS AIR FORCE-99 DLA-15 REVIEW IS, MI, 82 USER: PROJECT NUMBER 5320-0818 DISTRIBUTION STATEMENT	MILITARY SPECIFICATION SHEET TITLE FASTENER, BLIND, HIGH STRENGTH, PULL TYPE, POSITIVE MECHANICAL LOCK, PROTRUDING HEAD, ALLOY STEEL, 112 K.S.I Fm	SPECIFICATION SHEET NUMBER MS90354 28 FEB 84 REV 1 SUPERSEDING MS90354 R 13 AUG 1993 AMSC- N/A FSC 5320
A. Approved for public release, distribution is unlimited		Page 2 of 4

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TABLE II. CRIP NUMBER TABULATION (CONTINUED)

CRIP DASH NO	ø3/8 (-12)			ø7/16 (-14)			ø1/2 (-18)			L REF.	C MAX	C MIN	C MAX	L REF.	C MAX	C MIN	C MAX
	CRIP DASH NO	CRIP RANGE		CRIP DASH NO	CRIP RANGE		CRIP DASH NO	CRIP RANGE									
		MIN	MAX		MIN	MAX		MIN	MAX								
-1202	094	.157	095	423	-1404	219	282	901	.589	-1805	281	.345	1084	753	1084	1147	815
-1203	156	.220	707	485	-1405	281	345	1026	.724	-1806	344	.407	1209	878	1209	1209	878
-1204	219	.282	820	548	-1406	344	407	945	.845	-1807	408	.470	1511	940	1511	1511	940
-1205	281	.345	863	610	-1407	408	470	1089	.949	-1808	468	.532	1772	940	1772	1772	940
-1206	344	.407	945	673	-1408	468	532	1151	.949	-1809	531	.595	1934	940	1934	1934	940
-1207	408	.470	1070	798	-1409	531	.595	1214	.912	-1810	595	.657	2100	940	2100	2100	940
-1208	468	.532	1370	860	-1410	594	.657	1278	.974	-1811	594	.720	2266	940	2266	2266	940
-1209	531	.595	1511	923	-1411	656	.720	1339	1.037	-1812	656	.782	2432	940	2432	2432	940
-1210	594	.657	1655	985	-1412	719	.782	1401	1.099	-1813	719	.845	2598	940	2598	2598	940
-1211	656	.720	1800	1048	-1413	781	.845	1464	1.161	-1814	781	.907	2764	940	2764	2764	940
-1212	719	.845	1944	1110	-1414	844	.907	1526	1.224	-1815	844	.970	2930	940	2930	2930	940
-1213	781	.907	2088	1173	-1415	908	.970	1589	1.287	-1816	908	1.032	3096	940	3096	3096	940
-1214	844	.970	2232	1236	-1416	969	1.032	1651	1.349	-1817	969	1.095	3262	940	3262	3262	940
-1215	908	1.032	2376	1298	-1417	1031	1.095	1714	1.412	-1818	1031	1.157	3428	940	3428	3428	940
-1216	969	1.157	2520	1360	-1418	1094	1.157	1776	1.474	-1819	1094	1.220	3594	940	3594	3594	940
-1217	1031	1.220	2664	1423	-1419	1156	1.220	1838	1.537	-1820	1156	1.282	3760	940	3760	3760	940
-1218	1094	1.282	2808	1485	-1420	1219	1.282	1901	1.600	-1821	1219	1.345	3926	940	3926	3926	940
-1219	1156	1.345	2952	1548	-1421	1281	1.345	1964	1.662	-1822	1281	1.407	4092	940	4092	4092	940
-1220	1219	1.407	3096	1610	-1422	1344	1.407	2026	1.724	-1823	1344	1.469	4258	940	4258	4258	940
-1221	1281	1.469	3240	1673	-1423	1406	1.469	2089	1.787	-1824	1406	1.532	4424	940	4424	4424	940
-1222	1344	1.532	3384	1735	-1424	1469	1.532	2151	1.849	-1825	1469	1.595	4590	940	4590	4590	940
-1223	1406	1.600	3528	1798	-1425	1531	1.600	2214	1.912	-1826	1531	1.657	4756	940	4756	4756	940
-1224	1469	1.662	3672	1860	-1426	1594	1.662	2276	1.974	-1827	1594	1.720	4922	940	4922	4922	940
-1225	1531	1.724	3816	1923	-1427	1656	1.724	2339	2.037	-1828	1656	1.782	5088	940	5088	5088	940
-1226	1594	1.787	3960	1985	-1428	1719	1.787	2401	2.100	-1829	1719	1.845	5254	940	5254	5254	940
-1227	1656	1.850	4104	2048	-1429	1781	1.850	2464	2.162	-1830	1781	1.907	5420	940	5420	5420	940
-1228	1719	1.912	4248	2110	-1430	1844	1.912	2526	2.224	-1831	1844	1.970	5586	940	5586	5586	940
-1229	1781	1.974	4392	2173	-1431	1906	1.974	2589	2.287	-1832	1906	2.032	5752	940	5752	5752	940
-1230	1844	2.037	4536	2235	-1432	1969	2.037	2651	2.349	-1833	1969	2.095	5918	940	5918	5918	940
-1231	1906	2.100	4680	2298	-1433	2031	2.100	2714	2.412	-1834	2031	2.157	6084	940	6084	6084	940
-1232	1969	2.162	4824	2360	-1434	2094	2.162	2776	2.474	-1835	2094	2.220	6250	940	6250	6250	940
-1233	2031	2.224	4968	2423	-1435	2156	2.224	2839	2.537	-1836	2156	2.282	6416	940	6416	6416	940
-1234	2094	2.287	5112	2485	-1436	2219	2.287	2901	2.599	-1837	2219	2.345	6582	940	6582	6582	940
-1235	2156	2.349	5256	2548	-1437	2281	2.349	2964	2.662	-1838	2281	2.407	6748	940	6748	6748	940
-1236	2219	2.412	5400	2610	-1438	2344	2.412	3026	2.724	-1839	2344	2.469	6914	940	6914	6914	940
-1237	2281	2.474	5544	2673	-1439	2406	2.474	3089	2.787	-1840	2406	2.532	7080	940	7080	7080	940

PREPARING ACTIVITY: NAVY-AS
 CUSTOMIANS: ARMY-AN, NAVY-AS, AIR FORCE-99, DLA-IS
 REVIEW: ML 82
 PROJECT NUMBER: 5320-0816

MILITARY SPECIFICATION SHEET
 TITLE: FASTENER, BLIND, HIGH STRENGTH, PULL TYPE, POSITIVE MECHANICAL LOCK, PROTRUDING HEAD, ALLOY STEEL 112 K.S.I. Fcu

SPECIFICATION SHEET NUMBER: MS90354
 28 FEB 84 REV T
 SUPERSEDING: MS90354 R 13 AUG 1983
 AMSC: N/A FSC 5320

