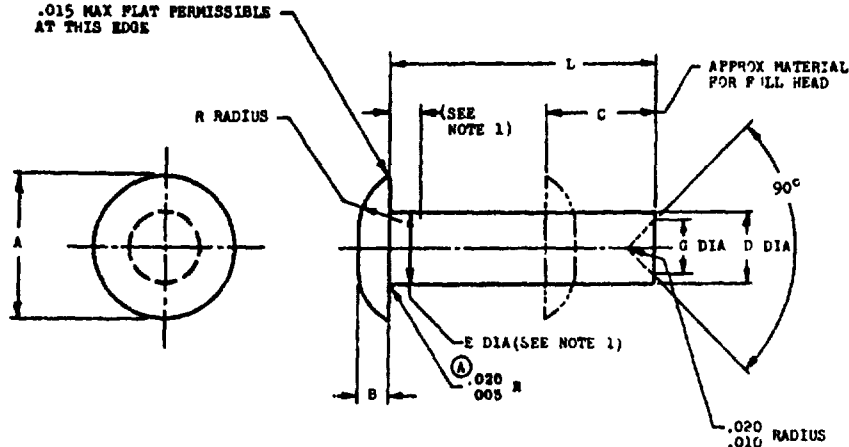


MS9403



NOMINAL SIZE	A	B $\begin{smallmatrix} +.010 \\ -.000 \end{smallmatrix}$	C	D	E	G $\begin{smallmatrix} \pm .005 \end{smallmatrix}$	R	(2) S
.062	.119 - .131	.027	.094	.061 - .063	.061 - .064	No Release	.054	.010
.094	.179 - .197	.040	.141	.093 - .095	.093 - .096	No Release	.082	.010
.125	.238 - .262	.054	.128	.123 - .126	.123 - .128	.070	.108	.010
.150	.296 - .328	.067	.234	.154 - .157	.154 - .159	.060	.125	.015
.188	.356 - .394	.080	.261	.196 - .199	.196 - .199	.100	.174	.017
.250	.475 - .525	.107	.375	.248 - .252	.248 - .254	.125	.217	.020
.312	.594 - .656	.133	.469	.310 - .314	.310 - .316	.150	.272	.020
.375	.713 - .777	.161	.562	.371 - .377	.371 - .377	.160	.320	.020

- DISTANCE .060 FOR LENGTHS 178 AND SHORTER AND .100 FOR LENGTHS LONGER THAN .100
- A MUST BE CONCENTRIC WITH D DIA WITHIN 3 PULL INDICATOR READING
- MATERIAL CORROSION AND HEAT RESISTANT STEEL AMS 5737 (AISI 4140) ONLY
- TENSILE STRENGTH AT ROOM TEMPERATURE: 80,000 TO 95,000 PSI AS HEAT TREATED
90,000 PSI MINIMUM AFTER DRIVING
- HEAT TREAT: SOLUTION TREAT AND PARTIALLY PRECIPITATION HEAT TREAT AFTER HEADING AS FOLLOWING
SOLUTION HEAT TREAT AT 1050°F $\pm 25^\circ$ FOR 25 MINUTES - OIL QUENCH. PRECIPITATION HEAT TREAT
AT 1250°F TO 1350°F FOR 30 TO 90 MINUTES AS NECESSARY TO MEET TENSILE REQUIREMENTS - AIR COOL
- REMOVE BURRS AND BREAK SHARP EDGES .000 - .015
- DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED; TOLERANCES; LINEAR DIMENSIONS $\pm .010$
ANGULAR DIMENSIONS $\pm 5^\circ$
- IDENTIFICATION MARK MS9403-XXX AND MANUFACTURERS IDENTIFICATION ON CONTAINER
- DO NOT USE UNASSIGNED PART NUMBERS

AS AND AMS ARE SAE PUBLICATIONS.

(A) FOR CHANGES SEE SHEETS 1 & 2

THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE ENGINE AND PROPELLER UTILITY PARTS COMMITTEE OF THE SAE

P.A. USAP - 82 Other Code Army - AV Navy - AS	TITLE RIVET, SOLID - UNIVERSAL HEAD, AMS 5737	MILITARY STANDARD
		MS9403
PROCUREMENT SPECIFICATION NONE	SUPERSEDES	SHEET 1 OF 2

User activities
ME
Army - MC
Navy - MC
Air Force -
DSA -

Review activities
Army -
Navy -
Air Force - 11
DSA -

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.

APPROVED 9 May 62 REVISED 27 Jun 74

MS9403

FED SUP CLASS
5320

Use activities:
Army - ME
Navy - MC
Air Force -
DGA -

Review activities:
Army -
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DGA -

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ROW SIZE	.063		.094		.125		.158		.188		.250		.312		.375	
	PART NO.	APPROX WEIGHT LB/100	PART NO.	APPROX WEIGHT LB/100	PART NO.	APPROX WEIGHT LB/100	PART NO.	APPROX WEIGHT LB/100	PART NO.	APPROX WEIGHT LB/100	PART NO.	APPROX WEIGHT LB/100	PART NO.	APPROX WEIGHT LB/100	PART NO.	APPROX WEIGHT LB/100
L	MS9403-002	.02	MS9403-057	.06	MS9403-126	.13	MS9403-189	.24	MS9403-250	.38	MS9403-313	.49	MS9403-384	2.31	MS9403-449	4.00
	MS9403-003	.02	MS9403-058	.07	MS9403-127	.14	MS9403-190	.26	MS9403-251	.41	MS9403-314	.54	MS9403-385	2.39	MS9403-450	4.11
	MS9403-004	.03	MS9403-059	.08	MS9403-128	.15	MS9403-191	.28	MS9403-252	.44	MS9403-315	.59	MS9403-386	2.47	MS9403-451	4.23
	MS9403-005	.03	MS9403-060	.09	MS9403-129	.16	MS9403-192	.30	MS9403-253	.47	MS9403-316	.64	MS9403-387	2.54	MS9403-452	4.33
	MS9403-006	.03	MS9403-061	.10	MS9403-130	.17	MS9403-193	.32	MS9403-254	.50	MS9403-317	.69	MS9403-388	2.62	MS9403-453	4.40
	MS9403-007	.03	MS9403-062	.11	MS9403-131	.18	MS9403-194	.34	MS9403-255	.53	MS9403-318	.72	MS9403-389	2.70	MS9403-454	4.47
	MS9403-008	.04	MS9403-063	.12	MS9403-132	.19	MS9403-195	.36	MS9403-256	.54	MS9403-319	.74	MS9403-390	2.78	MS9403-455	4.54
	MS9403-009	.04	MS9403-064	.12	MS9403-133	.20	MS9403-196	.38	MS9403-257	.56	MS9403-320	.77	MS9403-391	2.86	MS9403-456	4.61
	MS9403-010	.04	MS9403-065	.13	MS9403-134	.21	MS9403-197	.40	MS9403-258	.61	MS9403-321	.99	MS9403-392	2.93	MS9403-457	4.68
	MS9403-011	.04	MS9403-066	.14	MS9403-135	.22	MS9403-198	.42	MS9403-259	.64	MS9403-322	1.19	MS9403-393	3.01	MS9403-458	4.75
	MS9403-012	.05	MS9403-067	.15	MS9403-136	.23	MS9403-199	.44	MS9403-260	.67	MS9403-323	1.41	MS9403-394	3.09	MS9403-459	4.82
	MS9403-013	.05	MS9403-068	.16	MS9403-137	.24	MS9403-200	.46	MS9403-261	.69	MS9403-324	1.64	MS9403-395	3.17	MS9403-460	4.89
	MS9403-014	.05	MS9403-069	.17	MS9403-138	.25	MS9403-201	.48	MS9403-262	.72	MS9403-325	1.89	MS9403-396	3.25	MS9403-461	4.96
	MS9403-015	.06	MS9403-070	.18	MS9403-139	.26	MS9403-202	.50	MS9403-263	.75	MS9403-326	2.14	MS9403-397	3.33	MS9403-462	5.03
	MS9403-016	.06	MS9403-071	.19	MS9403-140	.27	MS9403-203	.52	MS9403-264	.78	MS9403-327	2.40	MS9403-398	3.41	MS9403-463	5.10
	MS9403-017	.06	MS9403-072	.20	MS9403-141	.28	MS9403-204	.54	MS9403-265	.81	MS9403-328	2.66	MS9403-399	3.49	MS9403-464	5.17
	MS9403-018	.07	MS9403-073	.21	MS9403-142	.29	MS9403-205	.55	MS9403-266	.83	MS9403-329	2.92	MS9403-400	3.57	MS9403-465	5.24
	MS9403-019	.07	MS9403-074	.22	MS9403-143	.30	MS9403-206	.57	MS9403-267	.86	MS9403-330	3.17	MS9403-401	3.65	MS9403-466	5.31
	MS9403-020	.08	MS9403-075	.23	MS9403-144	.31	MS9403-207	.59	MS9403-268	.89	MS9403-331	3.43	MS9403-402	3.73	MS9403-467	5.38
	MS9403-021	.08	MS9403-076	.24	MS9403-145	.32	MS9403-208	.61	MS9403-269	.92	MS9403-332	3.69	MS9403-403	3.81	MS9403-468	5.45
	MS9403-022	.09	MS9403-077	.25	MS9403-146	.33	MS9403-209	.63	MS9403-270	.95	MS9403-333	3.95	MS9403-404	3.89	MS9403-469	5.52
	MS9403-023	.09	MS9403-078	.26	MS9403-147	.34	MS9403-210	.64	MS9403-271	.97	MS9403-334	4.21	MS9403-405	3.97	MS9403-470	5.59
	MS9403-024	.10	MS9403-079	.27	MS9403-148	.35	MS9403-211	.66	MS9403-272	1.00	MS9403-335	4.47	MS9403-406	4.05	MS9403-471	5.66
	MS9403-025	.10	MS9403-080	.28	MS9403-149	.36	MS9403-212	.68	MS9403-273	1.03	MS9403-336	4.73	MS9403-407	4.13	MS9403-472	5.73
	MS9403-026	.11	MS9403-081	.29	MS9403-150	.37	MS9403-213	.70	MS9403-274	1.06	MS9403-337	4.99	MS9403-408	4.21	MS9403-473	5.80
	MS9403-027	.11	MS9403-082	.30	MS9403-151	.38	MS9403-214	.72	MS9403-275	1.09	MS9403-338	5.25	MS9403-409	4.29	MS9403-474	5.87
	MS9403-028	.12	MS9403-083	.31	MS9403-152	.39	MS9403-215	.74	MS9403-276	1.12	MS9403-339	5.51	MS9403-410	4.37	MS9403-475	5.94
	MS9403-029	.12	MS9403-084	.32	MS9403-153	.40	MS9403-216	.76	MS9403-277	1.15	MS9403-340	5.77	MS9403-411	4.45	MS9403-476	6.01
	MS9403-030	.13	MS9403-085	.33	MS9403-154	.41	MS9403-217	.78	MS9403-278	1.18	MS9403-341	6.03	MS9403-412	4.53	MS9403-477	6.08
	MS9403-031	.13	MS9403-086	.34	MS9403-155	.42	MS9403-218	.80	MS9403-279	1.21	MS9403-342	6.29	MS9403-413	4.61	MS9403-478	6.15
	MS9403-032	.14	MS9403-087	.35	MS9403-156	.43	MS9403-219	.82	MS9403-280	1.24	MS9403-343	6.55	MS9403-414	4.69	MS9403-479	6.22
	MS9403-033	.14	MS9403-088	.36	MS9403-157	.44	MS9403-220	.84	MS9403-281	1.27	MS9403-344	6.81	MS9403-415	4.77	MS9403-480	6.29
	MS9403-034	.15	MS9403-089	.37	MS9403-158	.45	MS9403-221	.86	MS9403-282	1.30	MS9403-345	7.07	MS9403-416	4.85	MS9403-481	6.36
	MS9403-035	.15	MS9403-090	.38	MS9403-159	.46	MS9403-222	.88	MS9403-283	1.33	MS9403-346	7.33	MS9403-417	4.93	MS9403-482	6.43
	MS9403-036	.16	MS9403-091	.39	MS9403-160	.47	MS9403-223	.90	MS9403-284	1.36	MS9403-347	7.59	MS9403-418	5.01	MS9403-483	6.50
	MS9403-037	.16	MS9403-092	.40	MS9403-161	.48	MS9403-224	.92	MS9403-285	1.39	MS9403-348	7.85	MS9403-419	5.09	MS9403-484	6.57
	MS9403-038	.17	MS9403-093	.41	MS9403-162	.49	MS9403-225	.94	MS9403-286	1.42	MS9403-349	8.11	MS9403-420	5.17	MS9403-485	6.64
	MS9403-039	.17	MS9403-094	.42	MS9403-163	.50	MS9403-226	.96	MS9403-287	1.45	MS9403-350	8.37	MS9403-421	5.25	MS9403-486	6.71
	MS9403-040	.18	MS9403-095	.43	MS9403-164	.51	MS9403-227	.98	MS9403-288	1.48	MS9403-351	8.63	MS9403-422	5.33	MS9403-487	6.78
	MS9403-041	.18	MS9403-096	.44	MS9403-165	.52	MS9403-228	.99	MS9403-289	1.51	MS9403-352	8.89	MS9403-423	5.41	MS9403-488	6.85
	MS9403-042	.19	MS9403-097	.45	MS9403-166	.53	MS9403-229	1.01	MS9403-290	1.54	MS9403-353	9.15	MS9403-424	5.49	MS9403-489	6.92
	MS9403-043	.19	MS9403-098	.46	MS9403-167	.54	MS9403-230	1.02	MS9403-291	1.57	MS9403-354	9.41	MS9403-425	5.57	MS9403-490	6.99
	MS9403-044	.20	MS9403-099	.47	MS9403-168	.55	MS9403-231	1.04	MS9403-292	1.60	MS9403-355	9.67	MS9403-426	5.65	MS9403-491	7.06
	MS9403-045	.20	MS9403-100	.48	MS9403-169	.56	MS9403-232	1.05	MS9403-293	1.63	MS9403-356	9.93	MS9403-427	5.73	MS9403-492	7.13
	MS9403-046	.21	MS9403-101	.49	MS9403-170	.57	MS9403-233	1.06	MS9403-294	1.66	MS9403-357	10.19	MS9403-428	5.81	MS9403-493	7.20
	MS9403-047	.21	MS9403-102	.50	MS9403-171	.58	MS9403-234	1.07	MS9403-295	1.69	MS9403-358	10.45	MS9403-429	5.89	MS9403-494	7.27
	MS9403-048	.22	MS9403-103	.51	MS9403-172	.59	MS9403-235	1.08	MS9403-296	1.72	MS9403-359	10.71	MS9403-430	5.97	MS9403-495	7.34
	MS9403-049	.22	MS9403-104	.52	MS9403-173	.60	MS9403-236	1.09	MS9403-297	1.75	MS9403-360	10.97	MS9403-431	6.05	MS9403-496	7.41
	MS9403-050	.23	MS9403-105	.53	MS9403-174	.61	MS9403-237	1.10	MS9403-298	1.78	MS9403-361	11.23	MS9403-432	6.13	MS9403-497	7.48
	MS9403-051	.23	MS9403-106	.54	MS9403-175	.62	MS9403-238	1.11	MS9403-299	1.81	MS9403-362	11.49	MS9403-433	6.21	MS9403-498	7.55
	MS9403-052	.24	MS9403-107	.55	MS9403-176	.63	MS9403-239	1.12	MS9403-300	1.84	MS9403-363	11.75	MS9403-434	6.29	MS9403-499	7.62
	MS9403-053	.24	MS9403-108	.56	MS9403-177	.64	MS9403-240	1.13	MS9403-301	1.87	MS9403-364	12.01	MS9403-435	6.37	MS9403-500	7.69
	MS9403-054	.25	MS9403-109	.57	MS9403-178	.65	MS9403-241	1.14	MS9403-302	1.90	MS9403-365	12.27	MS9403-436	6.45	MS9403-501	7.76
	MS9403-055	.25	MS9403-110	.58	MS9403-179	.66	MS9403-242	1.15	MS9403-303	1.93	MS9403-366	12.53	MS9403-437	6.53	MS9403-502	7.83
	MS9403-056	.26	MS9403-111	.59	MS9403-180	.67	MS9403-243	1.16	MS9403-304	1.96	MS9403-367	12.79	MS9403-438	6.61	MS9403-503	7.90
	MS9403-057	.26	MS9403-112	.60	MS9403-181	.68	MS9403-244	1.17	MS9403-305	1.99	MS9403-368	13.05	MS9403-439	6.69	MS9403-504	7.97
	MS9403-058	.27	MS9403-113	.61	MS9403-182	.69	MS9403-245	1.18	MS9403-306	2.02	MS9403-369	13.31	MS9403-440	6.77	MS9403-505	8.04
	MS9403-059	.27	MS9403-114	.62	MS9403-183	.70										