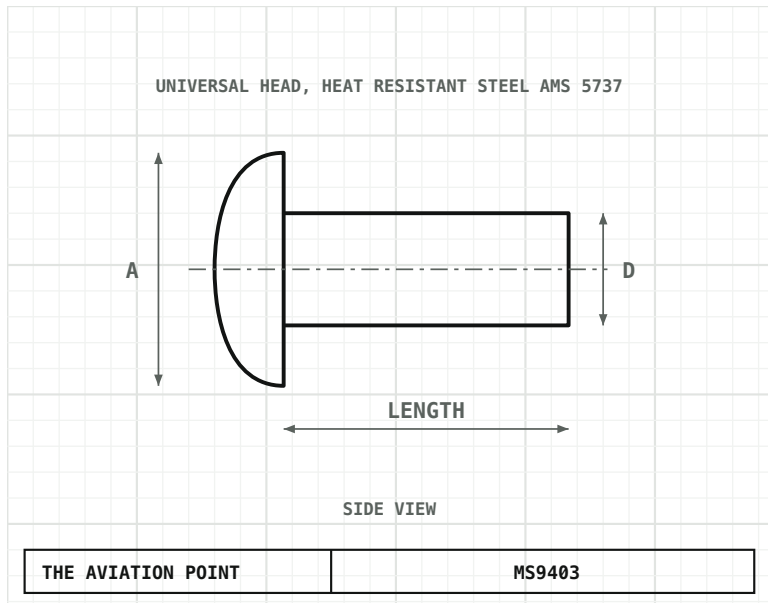
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MS9403 rivet — universal head, heat resistant steel AMS 5737

MS9403: solid rivet with a universal head in AMS 5737 heat resistant steel.



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Solid rivet, universal head
Material	Corrosion and heat resistant steel, AMS 5737
Finish	Solution treated and partially precipitation heat treated after heading
Status	Cancelled by Notice 2 (15 Oct 1999) and superseded by AS9403; the part numbers are identical.

Dimensions by size

Dimension, in	.062	.094	.125	.156	.188	.250	.312	.375
A — A, head dia	.119 - .131	.179 - .197	.238 - .262	.296 - .328	.356 - .394	.475 - .525	.594 - .656	—
B — B, head height (+.010 / -.000)	.027	.040	.054	.067	.080	.107	.133	.161
C — C, approx. material for full head	.094	.141	—	.234	—	.375	.469	.562
D — D, shank dia	.061 - .063	.093 - .095	.123 - .126	.154 - .157	—	.248 - .252	.310 - .314	—
E — E, shank dia under the head	.061 - .064	.093 - .096	.123 - .128	.154 - .159	.186 - .191	.248 - .254	.310 - .316	—
G — G, end recess dia (±.005)	No recess	No recess	.070	—	.100	.125	.150	—
R — R, head radius	.054	—	—	.135	—	.217	.272	—
S — S, concentricity of A to D, FIR	.010	.010	.010	.015	—	.020	.020	.020

Dimensions in inches, as tabulated in the standard (letters as on its drawing).

Part numbers

.062 17 part numbers

Part no.	Length L, in	Approx. weight, lb/100
MS9403-002	.125	.02
MS9403-003	.156	.02
MS9403-004	.188	.02
MS9403-005	.219	.03
MS9403-006	.250	.03
MS9403-007	.281	.03
MS9403-008	.312	.04
MS9403-009	.344	.04
MS9403-010	.375	.04
MS9403-011	.406	.04
MS9403-012	.438	.05
MS9403-013	.469	.05
MS9403-014	.500	.05
MS9403-015	.531	.06
MS9403-016	.562	.06
MS9403-017	.594	.06
MS9403-018	.625	.07

.094 27 part numbers

Part no.	Length L, in	Approx. weight, lb/100
MS9403-065	.188	.06
MS9403-066	.219	.07
MS9403-067	.250	.08
MS9403-068	.281	.08
MS9403-069	.312	.09
MS9403-070	.344	.10
MS9403-071	.375	.10
MS9403-072	.406	.11
MS9403-073	.438	.12
MS9403-074	.469	.12
MS9403-075	.500	.13
MS9403-076	.531	.14
MS9403-077	.562	.14
MS9403-078	.594	.15
MS9403-079	.625	.16
MS9403-080	.656	.17
MS9403-081	.688	.17
MS9403-082	.719	.18
MS9403-083	.750	—
MS9403-084	.781	.19
MS9403-085	.812	.20
MS9403-086	.844	.21
MS9403-087	.875	.21
MS9403-088	.906	.22
MS9403-089	.938	.23
MS9403-090	.969	.23
MS9403-091	1.000	.24

.125 35 part numbers

Part no.	Length L, in	Approx. weight, lb/100
MS9403-126	.188	.13
MS9403-127	.219	.14
MS9403-128	.250	.15
MS9403-129	.281	.16
MS9403-130	.312	.17
MS9403-131	.344	.19
MS9403-132	.375	.20
MS9403-133	.406	.21
MS9403-134	.438	.22
MS9403-135	.469	.24
MS9403-136	.500	.25
MS9403-137	.531	.26
MS9403-138	.562	.27
MS9403-139	.594	.29
MS9403-140	.625	.30
MS9403-141	.656	.31
MS9403-142	.688	.32
MS9403-143	.719	.34
MS9403-144	.750	.35
MS9403-145	.781	.36
MS9403-146	.812	.37
MS9403-147	.844	.38
MS9403-148	.875	.40
MS9403-149	.906	.41
MS9403-150	.938	.42
MS9403-151	.969	.44
MS9403-152	1.000	.45
MS9403-156	1.125	.50
MS9403-160	1.250	.55
MS9403-164	1.375	.60
MS9403-168	1.500	.65
MS9403-172	1.625	.70
MS9403-176	1.750	.75
MS9403-180	1.875	.80
MS9403-184	2.000	—

.156 33 part numbers

Part no.	Length L, in	Approx. weight, lb/100
MS9403-189	.250	.24
MS9403-190	.281	.26
MS9403-191	.312	.28
MS9403-192	.344	.30
MS9403-193	.375	.32
MS9403-194	.406	.34
MS9403-195	.438	.36
MS9403-196	.469	.38
MS9403-197	.500	.40
MS9403-198	.531	.42
MS9403-199	.562	.44
MS9403-200	.594	.46
MS9403-201	.625	.48
MS9403-202	.656	.50
MS9403-203	.688	.52
MS9403-204	.719	.53
MS9403-205	.750	.55
MS9403-206	.781	.57
MS9403-207	.812	.59

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

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Part no.	Length L, in	Approx. weight, lb/100
MS9403-208	.844	.61
MS9403-209	.875	.63
MS9403-210	.906	.64
MS9403-211	.938	.67
MS9403-212	.969	.68
MS9403-213	1.000	.71
MS9403-217	1.125	.79
MS9403-221	1.250	.86
MS9403-225	1.375	.94
MS9403-229	1.500	1.02
MS9403-233	1.625	1.10
MS9403-237	1.750	1.17
MS9403-241	1.875	1.25
MS9403-245	2.000	1.33

.188 33 part numbers

Part no.	Length L, in	Approx. weight, lb/100
MS9403-250	.250	.38
MS9403-251	.281	.41
MS9403-252	.312	.44
MS9403-253	.344	.47
MS9403-254	.375	.50
MS9403-255	.406	.53
MS9403-256	.438	—
MS9403-257	.469	—
MS9403-258	.500	.61
MS9403-259	.531	.64
MS9403-260	.562	.67
MS9403-261	.594	.69
MS9403-262	.625	.72
MS9403-263	.656	.75
MS9403-264	.688	.78
MS9403-265	.719	.81
MS9403-266	.750	.83
MS9403-267	.781	.86
MS9403-268	.812	.89
MS9403-269	.844	.92
MS9403-270	.875	.95
MS9403-271	.906	.98
MS9403-272	.938	1.00
MS9403-273	.969	1.03
MS9403-274	1.000	1.06
MS9403-278	1.125	1.17
MS9403-282	1.250	1.28

Part no.	Length L, in	Approx. weight, lb/100
MS9403-286	1.375	1.39
MS9403-290	1.500	1.51
MS9403-294	1.625	1.62
MS9403-298	1.750	1.73
MS9403-302	1.875	1.85
MS9403-306	2.000	1.96

.250 31 part numbers

Part no.	Length L, in	Approx. weight, lb/100
MS9403-313	.312	.89
MS9403-314	.344	.94
MS9403-315	.375	.99
MS9403-316	.406	1.04
MS9403-317	.438	1.09
MS9403-318	.469	1.14
MS9403-319	.500	1.19
MS9403-320	.531	1.24
MS9403-321	.562	1.29
MS9403-322	.594	1.34
MS9403-323	.625	1.39
MS9403-324	.656	1.44
MS9403-325	.688	1.49
MS9403-326	.719	1.54
MS9403-327	.750	1.59
MS9403-328	.781	1.64
MS9403-329	.812	1.69
MS9403-330	.844	1.74
MS9403-331	.875	1.79
MS9403-332	.906	1.84
MS9403-333	.938	1.89
MS9403-334	.969	1.94
MS9403-335	1.000	1.99
MS9403-339	1.125	2.19
MS9403-343	1.250	2.39
MS9403-347	1.375	2.59
MS9403-351	1.500	2.79
MS9403-355	1.625	2.99
MS9403-359	1.750	3.19
MS9403-363	1.875	3.39
MS9403-367	2.000	3.59

.312 23 part numbers

Part no.	Length L, in	Approx. weight, lb/100
MS9403-382	.562	—
MS9403-383	.594	2.23
MS9403-384	.625	2.31
MS9403-385	.656	2.39
MS9403-386	.688	2.47
MS9403-387	.719	2.54
MS9403-388	.750	2.62
MS9403-389	.781	2.70
MS9403-390	.812	2.77
MS9403-391	.844	—
MS9403-392	.875	2.93
MS9403-393	.906	3.00
MS9403-394	.938	3.09
MS9403-395	.969	3.17
MS9403-396	1.000	3.25
MS9403-400	1.125	3.57
MS9403-404	1.250	3.87
MS9403-408	1.375	4.19
MS9403-412	1.500	4.50
MS9403-416	1.625	4.81
MS9403-420	1.750	5.12
MS9403-424	1.875	5.45
MS9403-428	2.000	5.75

.375 17 part numbers

Part no.	Length L, in	Approx. weight, lb/100
MS9403-449	.750	4.00
MS9403-450	.781	4.11
MS9403-451	.812	4.22
MS9403-452	.844	4.33
MS9403-453	.875	4.45
MS9403-454	.906	4.56
MS9403-455	.938	4.68
MS9403-456	.969	4.78
MS9403-457	1.000	4.90
MS9403-461	1.125	5.35
MS9403-465	1.250	—
MS9403-469	1.375	6.25
MS9403-473	1.500	6.70
MS9403-477	1.625	7.15
MS9403-481	1.750	7.60
MS9403-485	1.875	8.05
MS9403-489	2.000	8.50

How to read the part number

Part	Meaning
Format	MS9403-<dash>
Example	MS9403-002 — .062 in nominal size, .125 in long

Notes

- **Cancelled: use AS9403.** MS9403 is cancelled (Cancelled by Notice 2 (15 Oct 1999) and superseded by AS9403; the part numbers are identical.). Replacement named by the standard: AS9403. The old number MS9403-002 still turns up on drawings and IPCs: check the replacement for each part before you order.
- Part number: MS9403 and a three-digit dash number; each dash number is one size and one length L. Do not use unassigned part numbers.
- MS9403-014 was MS9403-104.
- E applies over .060 in under the head for lengths .188 and shorter and .100 in for longer lengths. A must be concentric with D within S full indicator reading.
- Head edge: .015 max flat permissible. Fillet under the head .005 - .020 R; shank end .010 - .020 radius with a 90° end recess of diameter G (no recess on the .062 and .094 sizes).
- Remove burrs and break sharp edges .000 - .015. Linear tolerance ±.010 unless otherwise specified.
- Identification: the part number and the manufacturer's identification on the container.
- Approved data governs. Use the rivet the SRM, drawing or IPC calls for.

SOURCES · MS9403 Rev. A, 27 Jun 1974 — Rivet, Solid - Universal Head, AMS 5737

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/solid-rivets/ms9403/