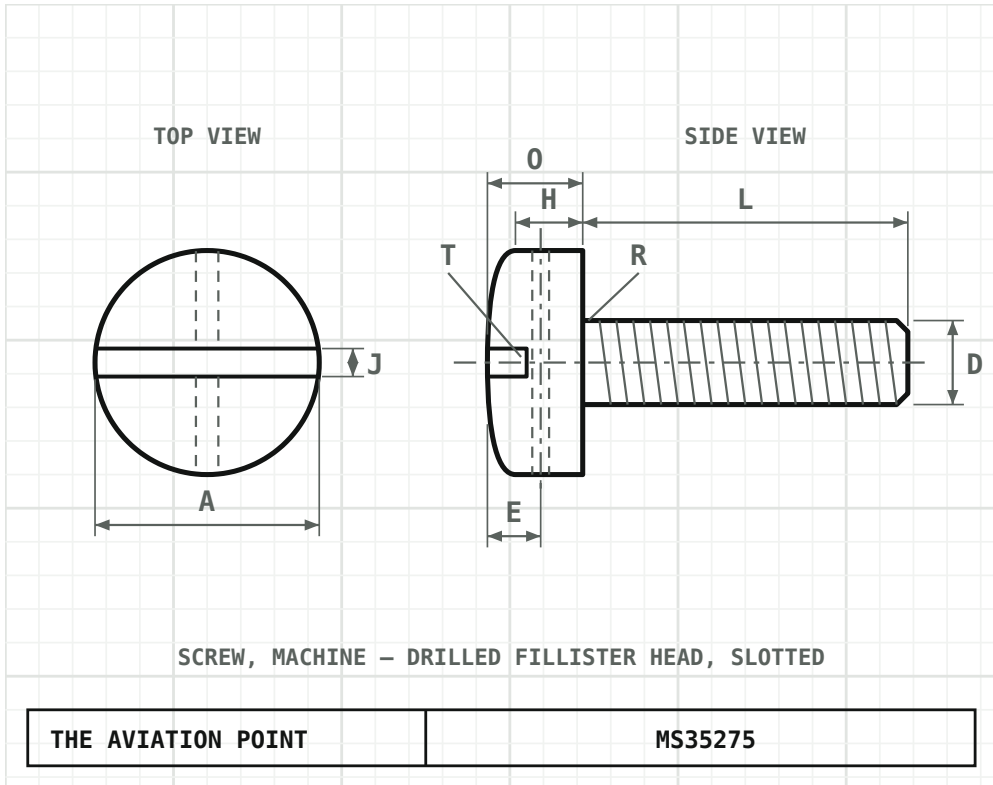
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MS35275 screw — fillister, drilled

MS35275: drilled fillister head, slotted machine screw in passivated corrosion-resisting steel, UNC-2A, No. 2 to 3/8.



Engineering drawing · dimensions in inches

Specification

Item	Value
Head	fillister, drilled
Drive	slot
Thread series	coarse (UNC-2A)
Material	Corrosion-resisting steel per Fed. Std. No. 66: AISI 302, 303, 304, 305, 316 or 384 (developed for cold heading), or UNS S30430 (formerly XM-7) to the chemical requirements of ASTM A 493; minimum ultimate tensile strength 80,000 psi.

Item	Value
Finish	Passivated per QQ-P-35.
Procurement	FF-S-92
Thread specification	FED-STD-H28/2
Status	Check the current issue before design use. Rev. B (14 Jun 1976) with Amendment 1 (18 Jun 1992). Notice 1 (20 May 1988): validated for use in acquisition. Notice 2 (27 Oct 1999): cancelled and superseded by NASM35275; the part numbers are identical (MS35275-201 = NASM35275-201).

Dimensions by size

Dimension, in	2-56 UNC-2A	4-40 UNC-2A	6-32 UNC-2A	8-32 UNC-2A	10-24 UNC-2A	1/4-20 UNC-2A	5/16-18 UNC-2A	3/8-16 UNC-2A
D body dia	.0717 – .0860	.0925 – .1120	.1141 – .1380	.1399 – .1640	.1586 – .1900	.2127 – .2500	.2712 – .3125	.3287 – .3750
A head dia	.124 – .140	.166 – .183	.208 – .226	.250 – .270	.292 – .313	.389 – .414	.490 – .518	.590 – .622
H head side height	.055 – .062	.072 – .079	.089 – .096	.106 – .113	.123 – .130	.161 – .170	.201 – .211	.242 – .253
O total head height	.070 – .083	.094 – .107	.118 – .132	.141 – .156	.165 – .180	.219 – .237	.276 – .295	.333 – .355
J slot width	.023 – .031	.031 – .039	.039 – .048	.045 – .054	.050 – .060	.064 – .075	.072 – .084	.081 – .094
T slot depth	.022 – .030	.030 – .038	.035 – .045	.054 – .065	.064 – .075	.087 – .102	.110 – .130	.134 – .154
E drill location nom	.026	.035	.043	.043	.043	.062	.078	.094
drilled hole size nom	.031	.037	.046	.046	.046	.062	.070	.070
R radius max	.013	.017	.021	.025	.029	.038	.047	.056
min tensile lbf	300	480	730	1120	1400	2540	4190	6200

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

Part numbers and lengths

2-56 UNC-2A 10 part numbers · tolerance +0/-.031

Part no.	Length, in
MS35275-201	.125
MS35275-202	.188
MS35275-203	.250
MS35275-204	.312
MS35275-205	.375
MS35275-206	.438
MS35275-207	.500
MS35275-208	.625
MS35275-209	.750
MS35275-210	.875

4-40 UNC-2A 13 part numbers

Part no.	Length, in	Tol.
MS35275-211	.125	+0/-.031
MS35275-212	.188	+0/-.031
MS35275-213	.250	+0/-.031
MS35275-214	.312	+0/-.031
MS35275-215	.375	+0/-.031
MS35275-216	.438	+0/-.031
MS35275-217	.500	+0/-.031
MS35275-218	.625	+0/-.031
MS35275-219	.750	+0/-.031
MS35275-220	.875	+0/-.031
MS35275-221	1.000	+0/-.031
MS35275-222	1.250	+0/-.062
MS35275-223	1.500	+0/-.062

6-32 UNC-2A 15 part numbers

Part no.	Length, in	Tol.
MS35275-224	.125	+0/-.031
MS35275-225	.188	+0/-.031
MS35275-226	.250	+0/-.031
MS35275-227	.312	+0/-.031
MS35275-228	.375	+0/-.031
MS35275-229	.438	+0/-.031
MS35275-230	.500	+0/-.031
MS35275-231	.625	+0/-.031
MS35275-232	.750	+0/-.031
MS35275-233	.875	+0/-.031
MS35275-234	1.000	+0/-.031
MS35275-235	1.250	+0/-.062
MS35275-236	1.500	+0/-.062
MS35275-237	1.750	+0/-.062
MS35275-238	2.000	+0/-.062

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

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8-32 UNC-2A 19 part numbers

Part no.	Length, in	Tol.
MS35275-239	.125	+0/-.031
MS35275-240	.188	+0/-.031
MS35275-241	.250	+0/-.031
MS35275-242	.312	+0/-.031
MS35275-243	.375	+0/-.031
MS35275-244	.438	+0/-.031
MS35275-245	.500	+0/-.031
MS35275-246	.625	+0/-.031
MS35275-247	.750	+0/-.031
MS35275-248	.875	+0/-.031
MS35275-249	1.000	+0/-.031
MS35275-250	1.250	+0/-.062
MS35275-251	1.500	+0/-.062
MS35275-252	1.750	+0/-.062
MS35275-253	2.000	+0/-.062
MS35275-254	2.250	+0/-.094
MS35275-255	2.500	+0/-.094
MS35275-256	2.750	+0/-.094
MS35275-257	3.000	+0/-.094

10-24 UNC-2A 18 part numbers

Part no.	Length, in	Tol.
MS35275-258	.188	+0/-.031
MS35275-259	.250	+0/-.031
MS35275-260	.312	+0/-.031
MS35275-261	.375	+0/-.031
MS35275-262	.438	+0/-.031
MS35275-263	.500	+0/-.031
MS35275-264	.625	+0/-.031
MS35275-265	.750	+0/-.031
MS35275-266	.875	+0/-.031
MS35275-267	1.000	+0/-.031
MS35275-268	1.250	+0/-.062
MS35275-269	1.500	+0/-.062
MS35275-270	1.750	+0/-.062
MS35275-271	2.000	+0/-.062
MS35275-272	2.250	+0/-.094
MS35275-273	2.500	+0/-.094
MS35275-274	2.750	+0/-.094
MS35275-275	3.000	+0/-.094

1/4-20 UNC-2A 16 part numbers

Part no.	Length, in	Tol.
MS35275-276	.312	+0/-.031
MS35275-277	.375	+0/-.031
MS35275-278	.438	+0/-.031
MS35275-279	.500	+0/-.031
MS35275-280	.625	+0/-.031
MS35275-281	.750	+0/-.031
MS35275-282	.875	+0/-.031
MS35275-283	1.000	+0/-.031
MS35275-284	1.250	+0/-.062
MS35275-285	1.500	+0/-.062
MS35275-286	1.750	+0/-.062
MS35275-287	2.000	+0/-.062
MS35275-288	2.250	+0/-.094
MS35275-289	2.500	+0/-.094
MS35275-290	2.750	+0/-.094
MS35275-291	3.000	+0/-.094

5/16-18 UNC-2A 15 part numbers

Part no.	Length, in	Tol.
MS35275-292	.375	+0/-.031
MS35275-293	.438	+0/-.031
MS35275-294	.500	+0/-.031
MS35275-295	.625	+0/-.031
MS35275-296	.750	+0/-.031
MS35275-297	.875	+0/-.031
MS35275-298	1.000	+0/-.031
MS35275-299	1.250	+0/-.062
MS35275-300	1.500	+0/-.062
MS35275-301	1.750	+0/-.062
MS35275-302	2.000	+0/-.062
MS35275-303	2.250	+0/-.094
MS35275-304	2.500	+0/-.094
MS35275-305	2.750	+0/-.094
MS35275-306	3.000	+0/-.094

3/8-16 UNC-2A 13 part numbers

Part no.	Length, in	Tol.
MS35275-307	.500	+0/-.031
MS35275-308	.625	+0/-.031
MS35275-309	.750	+0/-.031
MS35275-310	.875	+0/-.031
MS35275-311	1.000	+0/-.031
MS35275-312	1.250	+0/-.062
MS35275-313	1.500	+0/-.062
MS35275-314	1.750	+0/-.062
MS35275-315	2.000	+0/-.062
MS35275-316	2.250	+0/-.094
MS35275-317	2.500	+0/-.094
MS35275-318	2.750	+0/-.094
MS35275-319	3.000	+0/-.094

How to read the part number

Part	Meaning
Format	MS35275-<dash number>
Example	MS35275-201: 2-56 UNC-2A, .125 long
Length tolerance, .125 to 1.000	+0/-.031
Length tolerance, 1.250 to 2.000	+0/-.062
Length tolerance, 2.250 to 3.000	+0/-.094
Dash	Dash number from Table I selects thread size and length (201 to 319)

Notes

- Every screw has the drilled head: hole of the nominal size tabulated, at nominal location E, approximately at right angles to the slot; it may break through the bottom of the slot. All sharp edges are removed.
- Thread length: screws 2.00 in long and shorter have complete threads to within two threads of the head, or closer if practicable; longer screws have a minimum thread length of 1.50 in.
- Threads per FED-STD-H28/2; acceptability per FED-STD-H28/20, System 21.
- Magnetic permeability 2.0 maximum (air = 1.0) at H = 200 oersteds, magnetic indicator per MIL-I-17214.
- Approved data governs. Use the screw the SRM, drawing or IPC calls for.

SOURCES · MS35275 Rev. B, 14 Jun 1976 — Screw, Machine — Drilled Fillister Head, Slotted, Corrosion Resisting Steel, Passivated, UNC-2A

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/screws/ms35275/

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