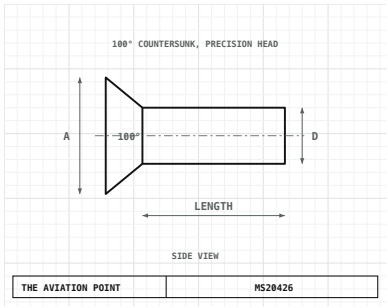
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MS20426 rivet — 100° countersunk, precision head (now NASM20426)

Rivet, Solid, Countersunk 100°, Precision Head, Aluminum and Titanium Columbium Alloy, from MS20426 Rev. L.



MS20426



Engineering drawing · dimensions in inches

Specification

Item	Value
Current standard	NASM20426 (part numbers unchanged)
Type	Solid rivet, 100° countersunk head
Material	Aluminum 1100-F (A91100) and aluminum alloys 2017-T4, 2024-T4, 2117-T4, 2219-T81, 2219-T62, 5056-H32 and 7050-T73 per QQ-A-430; titanium columbium alloy 45Cb (R58450) per AMS 4982

Item	Value
Finish	Default by alloy code; finish code after the length. No code: chemical surface treatment per MIL-C-5541 Class 1A, gold/yellow. A: anodize per MIL-A-8625 Type II Class 1, clear. D: anodize Type II Class 1, dichromate seal. F: option of any finish except as noted in the standard. S: MIL-C-5541 Class 1A, clear. N: anodize Type II Class 2. Titanium columbium: no finish required
Procurement	MIL-R-5674
Status	Cancelled and superseded by NASM20426 (Notice 1, 18 Aug 1998); part numbers unchanged. D, DD and K are inactive for new design.

Dimensions by size

Dimension, in	1/16	3/32	1/8	5/32	3/16	7/32	1/4	5/16	3/8
D — Shank diameter (+.003 / -.001)	.062	.094	.125	.156	.187	.219	.250	.312	.375
A — Head diameter (± .004, to theoretical sharp corners)	.114	.179	.225	.286	.353	.415	.476	.564	.694
B — Head height (reference)	.022	.036	.042	.055	.070	.083	.095	.106	.134
C — Approx. material for full shop head	.094	.141	.188	.234	.281	.328	.375	.469	.562
E — Land height (see drawing)	.004 ± .002	.004 ± .002	.005 ± .002	.005 ± .002	.006 ± .003	.006 ± .003	.008 ± .003	.010 ± .004	.010 ± .004
S — End chamfer	.016	.023	.031	.039	.047	.054	.062	.078	.094
T — End radius	.019	.029	.039	.049	.059	.069	.078	.098	.117

Maximum – minimum as tabulated in MS20426 Rev. L; letters as on the standard's drawing.

Part numbers

1/16 9 part numbers

Part no.	Length, in	Alloy codes
MS20426AD2-2	.125	All
MS20426AD2-3	.1875	All
MS20426AD2-4	.250	All
MS20426AD2-5	.3125	All
MS20426AD2-6	.375	All
MS20426AD2-7	.4375	All
MS20426AD2-8	.500	All
MS20426AD2-9	.5625	All
MS20426AD2-10	.625	All

3/32 14 part numbers

Part no.	Length, in	Alloy codes
MS20426AD3-2	.125	All
MS20426AD3-3	.1875	All
MS20426AD3-4	.250	All
MS20426AD3-5	.3125	All
MS20426AD3-6	.375	All
MS20426AD3-7	.4375	All
MS20426AD3-8	.500	All
MS20426AD3-9	.5625	All
MS20426AD3-10	.625	All
MS20426AD3-12	.750	All
MS20426AD3-14	.875	All
MS20426AD3-16	1.000	All
MS20426AD3-20	1.250	All
MS20426AD3-32	2.000	AD

1/8 17 part numbers

Part no.	Length, in	Alloy codes
MS20426AD4-3	.1875	All
MS20426AD4-4	.250	All
MS20426AD4-5	.3125	All
MS20426AD4-6	.375	All
MS20426AD4-7	.4375	All
MS20426AD4-8	.500	All
MS20426AD4-9	.5625	All
MS20426AD4-10	.625	All
MS20426AD4-12	.750	All
MS20426AD4-13	.8125	All
MS20426AD4-14	.875	All
MS20426AD4-16	1.000	All
MS20426AD4-18	1.125	All
MS20426AD4-20	1.250	All

5/32 17 part numbers

Part no.	Length, in	Alloy codes
MS20426AD5-4	.250	All
MS20426AD5-5	.3125	All
MS20426AD5-6	.375	All
MS20426AD5-7	.4375	All
MS20426AD5-8	.500	All
MS20426AD5-9	.5625	All
MS20426AD5-10	.625	All
MS20426AD5-11	.6875	A, AD
MS20426AD5-12	.750	All
MS20426AD5-14	.875	All
MS20426AD5-16	1.000	All
MS20426AD5-18	1.125	All
MS20426AD5-20	1.250	All
MS20426AD5-22	1.375	All

3/16 19 part numbers

Part no.	Length, in	Alloy codes
MS20426AD6-5	.3125	All
MS20426AD6-6	.375	All
MS20426AD6-7	.4375	All
MS20426AD6-8	.500	All
MS20426AD6-9	.5625	All
MS20426AD6-10	.625	All
MS20426AD6-11	.6875	AD
MS20426AD6-12	.750	All
MS20426AD6-14	.875	All
MS20426AD6-15	.9375	All
MS20426AD6-16	1.000	All
MS20426AD6-18	1.125	All
MS20426AD6-20	1.250	All
MS20426AD6-22	1.375	All

7/32 16 part numbers

Part no.	Length, in	Alloy codes
MS20426AD7-6	.375	All
MS20426AD7-7	.4375	All
MS20426AD7-8	.500	All
MS20426AD7-9	.5625	All
MS20426AD7-10	.625	All
MS20426AD7-12	.750	All
MS20426AD7-14	.875	All
MS20426AD7-16	1.000	All
MS20426AD7-18	1.125	All
MS20426AD7-20	1.250	All
MS20426AD7-22	1.375	All
MS20426AD7-24	1.500	All
MS20426AD7-28	1.750	All
MS20426AD7-32	2.000	All

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

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1/4 17 part numbers

Part no.	Length, in	Alloy codes
MS20426AD8-6	.375	All
MS20426AD8-7	.4375	All
MS20426AD8-8	.500	All
MS20426AD8-9	.5625	All
MS20426AD8-10	.625	All
MS20426AD8-12	.750	All
MS20426AD8-14	.875	All
MS20426AD8-16	1.000	All
MS20426AD8-18	1.125	All
MS20426AD8-20	1.250	All
MS20426AD8-22	1.375	All
MS20426AD8-24	1.500	All
MS20426AD8-28	1.750	All
MS20426AD8-32	2.000	All

5/16 15 part numbers

Part no.	Length, in	Alloy codes
MS20426AD10-7	.4375	All
MS20426AD10-8	.500	All
MS20426AD10-9	.5625	All
MS20426AD10-10	.625	All
MS20426AD10-12	.750	All
MS20426AD10-14	.875	All
MS20426AD10-16	1.000	All
MS20426AD10-18	1.125	All
MS20426AD10-20	1.250	All
MS20426AD10-22	1.375	All
MS20426AD10-24	1.500	All
MS20426AD10-28	1.750	All
MS20426AD10-32	2.000	All
MS20426AD10-40	2.500	All

3/8 14 part numbers

Part no.	Length, in	Alloy codes
MS20426AD12-8	.500	All
MS20426AD12-9	.5625	All
MS20426AD12-10	.625	All
MS20426AD12-12	.750	All
MS20426AD12-14	.875	All
MS20426AD12-16	1.000	All
MS20426AD12-18	1.125	All
MS20426AD12-20	1.250	All
MS20426AD12-22	1.375	All
MS20426AD12-24	1.500	All
MS20426AD12-28	1.750	All
MS20426AD12-32	2.000	All
MS20426AD12-40	2.500	All
MS20426AD12-48	3.000	All

Showing 121 of 138 rows. Complete table: theaviationpoint.com/parts/solid-rivets/ms20426/

How to read the part number

Part	Meaning
Format	MS20426<material><dash>
A	Material: 1100-F aluminum (head plain)
AD	Material: 2117-T4 aluminum alloy (dimpled head)
B	Material: 5056-H32 aluminum alloy (raised cross)
D	Material: 2017-T4 aluminum alloy, inactive for new design (raised teat)
DD	Material: 2024-T4 aluminum alloy, inactive for new design (raised double dash)
K	Material: 2219-T81 aluminum alloy, inactive for new design (indented square)
E	Material: 7050-T73 aluminum alloy (indented ring)
T	Material: Titanium columbium alloy 45Cb (indented diamond)
J	Material: 2219-T62 aluminum alloy (indented triangle)
Example	MS20426AD4-5 — 2117-T4 aluminum alloy, 1/8 in diameter, 5/16 in long

Notes

- **Current standard: NASM20426.** MS20426 is now controlled by **NASM20426** (MS20426L Notice 1 (18 Aug 1998)). The part numbers do not change: **MS20426AD2-2** is still the number on drawings, IPCs and bags, and it is the same part. Order it by that number; the current document is NASM20426.
- Dimensions are in inches. Tolerances unless otherwise specified: decimals ± .010.
- For part numbers of rivet length not listed, show the 1/16 increment required.
- Additional 1/32 length increments are obtained by adding -5 after the last digit or letter of the part number: MS20426AD4-12A-5 is 2117-T4, 1/8 diameter, 3/4 + 1/32 long, anodize clear.
- Diameter is in 1/32 in and length in 1/16 in. In the alloy column, All means A, AD, B, D, DD, E, K, T and J are all tabulated for that dash; otherwise only the listed codes are.
- Ring on 7050 rivets: outer diameter at most 75% of shank diameter, depth at most .010. Required on 7050 rivets manufactured after 2 July 1990.
- Manufacturer's identification is required to be depressed on rivet heads with a shank diameter of .125 and larger manufactured after 2 July 1990.
- Aluminum alloy 2017-T4 rivets with 33 ksi minimum undriven shear strength were acceptable until 2 July 1990.
- Rivets may be furnished with plain ends, or with chamfered or radiused ends to the S and T dimensions.
- The conical surface of the head shall be concentric with the shank within .005 (.010 FIM). Head-cocking angle relative to the rivet axis 1/2° max.
- .001 in shank diameter increase permissible within .100 in of the base of the head.
- Interchangeability with AN426: MS20426 rivets of like dash numbers are universally, functionally and dimensionally interchangeable.

SOURCES · MS20426 Rev. L, 14 Sep 1993 — Rivet, Solid, Countersunk 100°, Precision Head, Aluminum and Titanium Columbium Alloy

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/solid-rivets/ms20426/

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