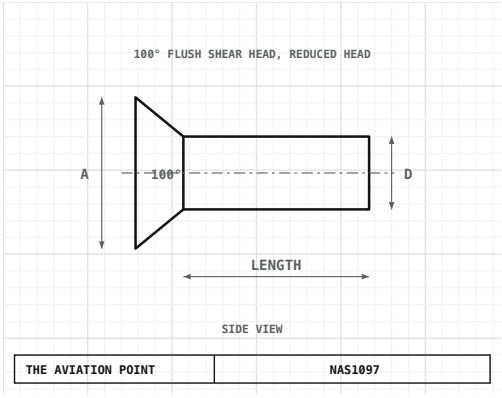
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NAS1097 rivet — 100° flush shear head, reduced head

Rivet, Solid, 100° Flush Shear Head, Aluminum Alloy: nominal sizes and commonly stocked part numbers.



NAS1097



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Solid rivet, 100° flush shear head
Material	2117-T4 (AD), 2017-T4 (D) and 7050-T73 (KE) aluminum alloy
Status	Check the current issue before design use.

Dimensions by size

Dimension, in	.094	.125	.156	.188	.250
D — Nominal shank diameter	.094	.125	.156	.188	.250
A — Head diameter	—	—	—	—	—
H — Head is that of MS20426 size	—	3/32	1/8	5/32	—

Nominal diameters. Blank cells: not stated in the documents we hold; take them from the standard.

Part numbers

.094 11 part numbers

Part no.	Length, in
NAS1097AD3-2	.125
NAS1097AD3-3	.188
NAS1097AD3-4	.250
NAS1097AD3-5	.312
NAS1097AD3-6	.375
NAS1097AD3-7	.438
NAS1097AD3-8	.500
NAS1097AD3-9	.562
NAS1097AD3-10	.625
NAS1097AD3-12	.750
NAS1097AD3-16	1.000

.125 26 part numbers

Part no.	Length, in
NAS1097AD4-2	.125
NAS1097AD4-3	.188
NAS1097AD4-3.5	.219
NAS1097AD4-4	.250
NAS1097AD4-4.5	.281
NAS1097AD4-5	.312
NAS1097AD4-5.5	.344
NAS1097AD4-6	.375
NAS1097AD4-6.5	.407
NAS1097AD4-7	.438
NAS1097AD4-8	.500
NAS1097AD4-9	.562
NAS1097AD4-10	.625
NAS1097AD4-11	.688
NAS1097AD4-12	.750
NAS1097AD4-14	.875
NAS1097AD4-16	1.000
NAS1097AD4-20	1.250
NAS1097D4-4	.250
NAS1097D4-5	.312
NAS1097D4-6	.375
NAS1097D4-7	.438
NAS1097D4-8	.500
NAS1097KE4-4	.250
NAS1097KE4-5	.312
NAS1097KE4-6	.375

.156 28 part numbers

Part no.	Length, in
NAS1097AD5-2	.125
NAS1097AD5-3	.188
NAS1097AD5-3.5	.219
NAS1097AD5-4	.250
NAS1097AD5-4.5	.281
NAS1097AD5-5	.312
NAS1097AD5-5.5	.344
NAS1097AD5-6	.375
NAS1097AD5-6.5	.407
NAS1097AD5-7	.438
NAS1097AD5-8	.500
NAS1097AD5-9	.562
NAS1097AD5-10	.625
NAS1097AD5-11	.688
NAS1097AD5-12	.750
NAS1097AD5-16	1.000
NAS1097AD5-20	1.250
NAS1097D5-4	.250
NAS1097D5-5	.312
NAS1097D5-6	.375
NAS1097D5-7	.438
NAS1097D5-8	.500
NAS1097KE5-3	.188
NAS1097KE5-4	.250
NAS1097KE5-5	.312
NAS1097KE5-6	.375
NAS1097KE5-7	.438
NAS1097KE5-8	.500

.188 36 part numbers

Part no.	Length, in
NAS1097AD6-2	.125
NAS1097AD6-3	.188
NAS1097AD6-4	.250
NAS1097AD6-4.5	.281
NAS1097AD6-5	.312
NAS1097AD6-5.5	.344
NAS1097AD6-6	.375
NAS1097AD6-6.5	.407
NAS1097AD6-7	.438
NAS1097AD6-8	.500
NAS1097AD6-9	.562
NAS1097AD6-10	.625
NAS1097AD6-11	.688
NAS1097AD6-12	.750
NAS1097AD6-13	.813
NAS1097AD6-14	.875
NAS1097AD6-15	.938
NAS1097AD6-16	1.000

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

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Part no.	Length, in
NAS1097AD6-20	1.250
NAS1097AD6-24	1.500
NAS1097AD6-28	1.750
NAS1097D6-3	.188
NAS1097D6-4	.250
NAS1097D6-5	.312
NAS1097D6-6	.375
NAS1097D6-7	.438
NAS1097D6-8	.500
NAS1097D6-9	.562
NAS1097D6-10	.625
NAS1097D6-12	.750
NAS1097D6-16	1.000
NAS1097KE6-4	.250
NAS1097KE6-5	.312
NAS1097KE6-6	.375
NAS1097KE6-7	.438
NAS1097KE6-8	.500

.250 14 part numbers

Part no.	Length, in
NAS1097AD8-4	.250
NAS1097AD8-5	.312
NAS1097AD8-6	.375
NAS1097AD8-7	.438
NAS1097AD8-8	.500
NAS1097AD8-9	.562
NAS1097AD8-10	.625
NAS1097AD8-11	.688
NAS1097AD8-12	.750
NAS1097AD8-13	.813
NAS1097AD8-14	.875
NAS1097AD8-15	.938
NAS1097AD8-16	1.000
NAS1097AD8-20	1.250

How to read the part number

Part	Meaning
AD	Material: 2117-T4 aluminum alloy
D	Material: 2017-T4 aluminum alloy
KE	Material: 7050-T73 aluminum alloy
Example	NAS1097AD4-5 — 2117-T4 aluminum alloy, .125 in diameter, .312 in long

Notes

- Head one size smaller than the shank: the 1/8 in rivet has a 3/32 in head, the 5/32 in rivet the head of an MS20426 1/8, the 3/16 in rivet the head of an MS20426 5/32. Used in a hole opened up to the next size so the new head matches the heads around it, without recountersinking.
- Not a direct equivalent of MS20426: same 100° angle, different head size for the same shank. Do not exchange them without approved data.
- A standard and an oversize rivet of the same size have the same head.
- Whether an oversize repair is acceptable at all is a question for the SRM or approved data.
- Part number format as commonly written; check the standard for the exact format.

SOURCES · NAS1097 — Rivet, Solid, 100° Flush Shear Head, Aluminum Alloy

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/solid-rivets/nas1097/