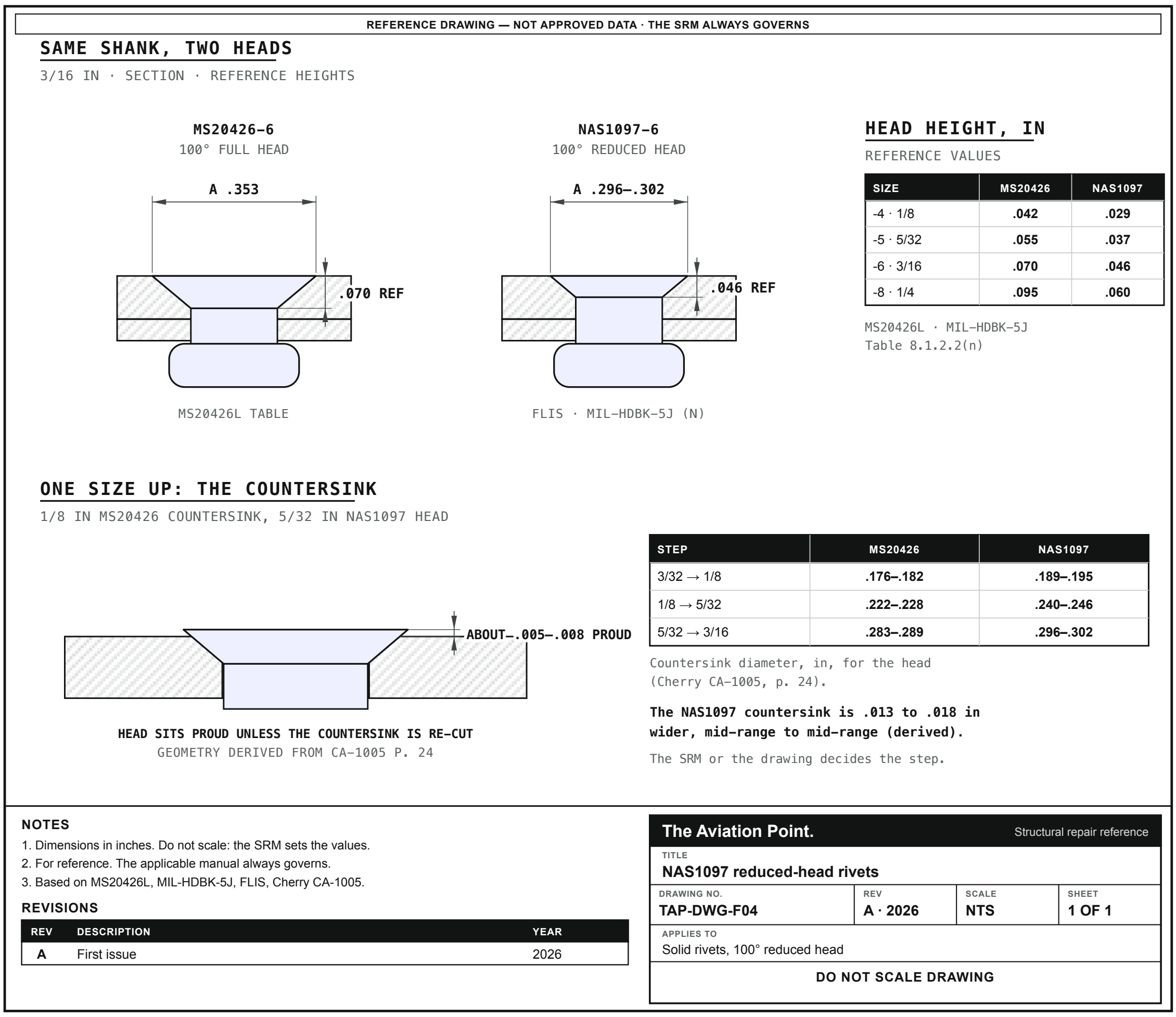
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NAS1097 Reduced-Head Rivets: Head, Alloys, Countersink and Drills

Head against MS20426 · alloys · part number · countersink · drills



MS20426-6 and NAS1097-6 on the same shank; head heights from MS20426L and MIL-HDBK-5J Table 8.1.2.2(n), NAS1097 head diameters from FLIS records; countersink diameters from Cherry CA-1005 p. 24.

The head against MS20426

Size	NAS1097 height (ref)	NAS1097 diameter	MS20426 height (ref)	MS20426 diameter
3/32 in (-3)	—	—	.036	.179
1/8 in (-4)	.029	.188-.196	.042	.225
5/32 in (-5)	.037	.2396-.2469	.055	.286
3/16 in (-6)	.046	.296-.302	.070	.353
1/4 in (-8)	.060	.3756-.3948	.095	.476

One size up: what the countersink says

Step	MS20426 countersink, in	NAS1097 countersink, in	Difference (derived)
3/32 → 1/8 in	0.176-0.182	0.189-0.195	0.013
1/8 → 5/32 in	0.222-0.228	0.240-0.246	0.018
5/32 → 3/16 in	0.283-0.289	0.296-0.302	0.013

Key points

- **Not an MS20426 equivalent:** same 100°, smaller head (.029 against .042 high at 1/8 in).
- **Alloys:** AD, D, E, KE (7050) and U (titanium-columbium); B exists, alloy not confirmed.
- **Drill by the shank:** 1/8 in #30, 5/32 in #21, 3/16 in #11, 1/4 in F.
- **One size up:** the NAS1097 countersink is .013 to .018 in wider than the smaller MS20426 one (CA-1005, derived).
- **BACR15CE** matches NAS1097 part by part in federal records.

Step by step

1. Read the alloy and the size in the number.
2. Drill by the shank.
3. Countersink 100° to the NAS1097 head.
4. Drive per the alloy.
5. Check the head flush, not proud.

Educational reference only, not approved data. Always consult the applicable SRM, AMM, or AC 43.13-1B and your certifying authority.

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SOURCES · MIL-HDBK-5J, Tables 8.1.2, 8.1.2, 8.1.2.2 · US federal item records · MS20426 Rev. L with Notice 1 · Cherry Aerospace CA-1005 Rev. A · FAA-H-8083-31B, Aviation Maintenance Technician Handbook, Airframe, chapter 4 · MIL-R-47196A, 6 Sep 1977

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