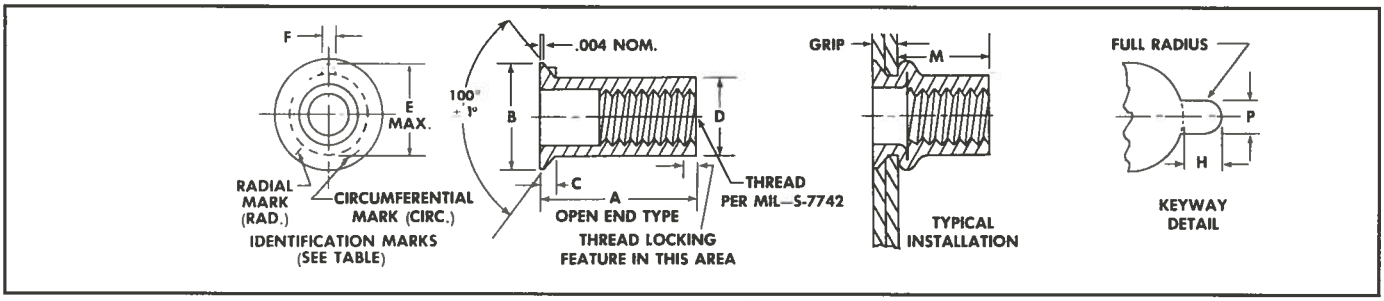
Countersunk head UNILOCK® fastener — Unified Thread System



Specifications

Sizes:

No. 4-40, No. 6-32, No. 8-32 UNC-3B internal threads. No. 10-32, 1/4-28, 5/16-24, 3/8-24, 1/2-20 UNF-3B internal threads.

Material:

A.I.S.I.4037 Alloy Steel per QQ-W-405 (seam free).
Ultimate Tensile Strength
No. 4-40–55.0 KSI Min.
No. 6-32–60.0 KSI Min.
No. 8-32 thru 1/2-20–85.0 KSI Min.

Finish:

Cad. plate per QQ-P-416, Type II, Class 2.

Thread Locking:

Per torque requirements of MIL-N-25027.

Installation Tools:

UNILOCK RIVNUTS® can be installed with standard RIVNUT Header tools, except they require reduced diameter pull-up studs. (When ordering, specify regular pull-up stud part No. followed by "L".)

Engineering data

First No. of Type No.	Thread Size	B Ref.	C Max.	D +.000 -.004	E Max.	F +.005 -.000	Install Drill size (Ref.)	Install Hole size Min.	Install Hole size Max.	Keyway Dimensions P+.003 -.000	Keyway Dimensions H	Axial Tensile Strength Lbs.—Min.
4	# 4-40 UNC-3B	.263	.051	.155	.198	.054	5/32	.156	.158	.062	.046-.048	1170
6	# 6-32 UNC-3B	.323	.063	.189	.240	.054	#12	.190	.193	.062	.056-.058	1590
8	# 8-32 UNC-3B	.355	.063	.221	.271	.054	.# 2	.222	.226	.062	.056-.058	2570
10	#10-32 UNF-3B	.391	.065	.250	.302	.054	E	.256	.256	.062	.056-.058	4130
25	1/4-28 UNF-3B	.529	.089	.332	.382	.054	Q	333	.338	.062	.056-.058	6590
31	5/16-24 UNF-3B	.656	.104	.413	.505	.120	Z	.414	.423	.128	.097-.102	9040
37	3/8-24 UNF-3B	.770	.124	.490	.597	.120	12.5 MM	.491	.500	.128	.110-.115	12,700
50	1/2-20 UNF-3B	.906	.124	.625	.733	.120	5/8	.626	.635	.128	.110-.115	Not Available

RIVNUT Part Number	NAS Part Number	Grip † Range	Ident. Mark	A ±.015	M Nom.	Weight Lbs./1000
CHK81L	NAS1330H04K81L	.050-.081	BLANK	.370	.235	1.3
CH4K106L	NAS1330H04K106L	.081-.106	1 RAD.	.395	.235	1.3
CH4K131L	NAS1330H04K131L	.106-.131	2 RAD.	.420	.235	1.4
CH4K156L	NAS1330H04K156L	.131-.156	3 RAD.	.450	.235	1.4
CH4K181L	NAS1330H04K181L	.156-.181	4 RAD.	.475	.235	1.5
CH6K106L	NAS1330H06K106L	.065-.106	BLANK	.500	.325	2.5
CH6K161L	NAS1330H06K161L	.106-.161	2 RAD.	.500	.280	2.4
CH6K201L	NAS1330H06K201L	.161-.201	4 RAD.	.562	.295	2.6
CH6K241L	NAS1330H06K241L	.201-.241	1 CIRC.	.625	.315	2.9
CH6K281L	NAS1330H06K281L	.241-.281	2 CIRC.	.625	.270	2.8
CH8K106L	NAS1330H08K106L	.065-.106	BLANK	.500	.325	3.1
CH8K161L	NAS1330H08K161L	.106-.161	2 RAD.	.500	.280	3.0
CH8K201L	NAS1330H08K201L	.161-.201	4 RAD.	.562	.290	3.3
CH8K241L	NAS1330H08K241L	.201-.241	1 CIRC.	.625	.310	3.6
CH8K281L	NAS1330H08K281L	.241-.281	2 CIRC.	.687	.325	3.2
CH10K116L	NAS1330H3K116L	.065-.116	BLANK	.578	.395	4.3
CH10K166L	NAS1330H3K166L	.116-.166	1 RAD.	.625	.385	4.6
CH10K216L	NAS1330H3K216L	.166-.216	2 RAD.	.687	.400	4.9
CH10K266L	NAS1330H3K266L	.216-.266	3 RAD.	.734	.390	5.1
CH10K316L	NAS1330H3K316L	.266-.316	4 RAD.	.781	.385	5.4
CH2528K151L	NAS1330H4K151L	.089-.151	BLANK	.687	.440	9.8
CH2528K211L	NAS1330H4K211L	.151-.211	1 RAD.	.750	.440	10.3
CH2528K271L	NAS1330H4K271L	.211-.271	2 RAD.	.812	.440	10.9
CH2528K331L	NAS1330H4K331L	.271-.331	3 RAD.	.875	.435	11.5
CH2528K391L	NAS1330H4K391L	.331-.391	4 RAD.	.937	.435	12.1
CH3124K181L	NAS1330H5K181L	.106-.181	BLANK	.844	540	17.8
CH3124K256L	NAS1330H5K256L	.181-.256	1 RAD.	.937	.560	19.3
CH3124K331L	NAS1330H5K331L	.256-.331	2 RAD.	1.000	.550	20.1
CH3124K406L	NAS1330H5K406L	.331-.406	3 RAD.	1.093	.565	21.5
CH3724K211L	NAS1330H6K211L	.125-.211	BLANK	.938	.580	27.0
CH3724K296L	NAS1330H6K296L	.211-.296	1 RAD.	1.103	.590	28.7
CH3724K381L	NAS1330H6K381L	.296-.381	2 RAD.	1.125	.600	30.5
CH3724K466L	NAS1330H6K466L	.381-.466	3 RAD.	1.219	.615	32.3
CH5020K226L	SEE BELOW*	.125-.226	BLANK	.984	.610	43.2
CH5020K326L		.226-.326	1 RAD.	1.094	.620	45.7
CH5020K426L		.326-.426	2 RAD.	1.218	.640	49.2
CH5020K526L		.426-.526	3RAD.	1.312	.635	51.6

*The 1/2" thread size RIVNUTS are of new design and at the present time are not covered by NAS standards.

†Additional Grip Ranges are available.