

INCH-POUND

AN805 Rev 8
4 August 2011
SUPERSEDING
AN805 Rev 7
14 August 1956

DETAIL SPECIFICATION SHEET

NUT, UNION

Inactive for new design after 24 July 1998.

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-6001.

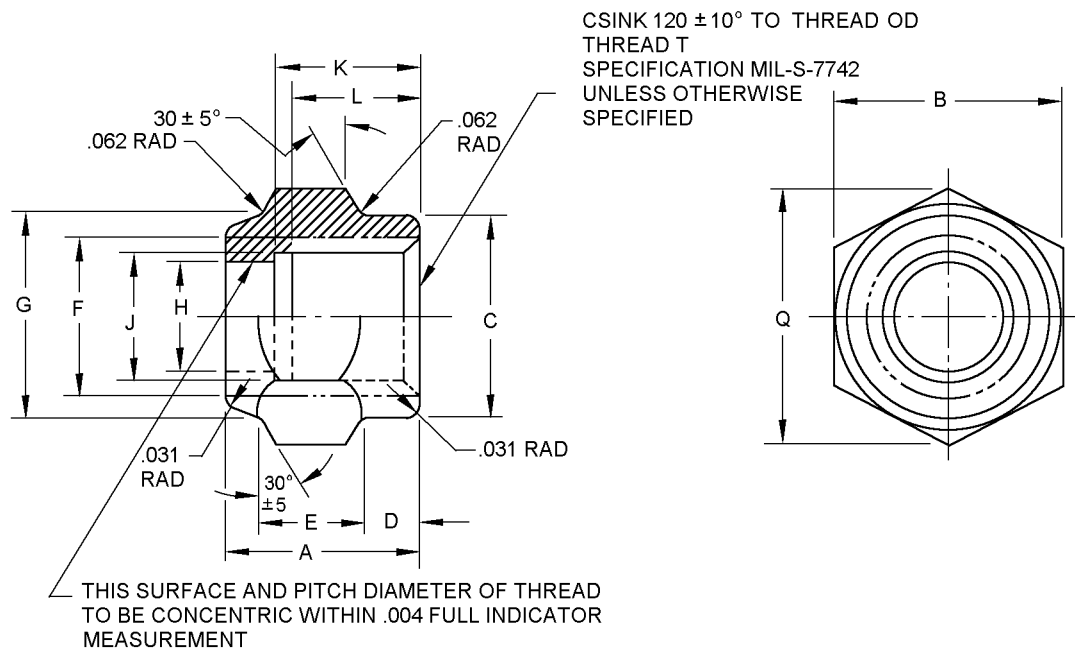


FIGURE 1. Nut, union.

TABLE I. Dash numbers and size. 1/ 2/

Dash number	Corrosion resistant steel	Tubing outside diameter	Thread T MIL-S-7742	A ±.015	B	C Diameter (dia.)	D Reference	E ±.015	F Dia.	G Dia.	H +.004 -.000 Dia.	J Diameter	K	L	P Pitch dia.	Q Reference
2	C2	.125	.3125-32 UNEF-3A	.438	.375	.375		.344	.312	.375	.173	.279 +.004 -.000	.281	.234		.43
3	C3	.188	.3750-24 UNF-3A	.500	.438	.438		.406	.375	.438	.257	.330 +.006 -.000	.328	.281		.51
4	C4	.250	.4375-20 UNF-3A	.500	.562	.531	.156	.250	.438	.500	.316	.385 +.005 -.000	.375	.312		.65
5	C5	.312	.5000-20 UNF-3A	.531	.625	.594			.531	.594	.379	.447 +.006 -.000	.406	.344		.72
6	C6	.375	.6250-18 UNF-3A	.562	.750	.719	.188	.281	.625	.719	.473	.565 +.008 -.000	.438	.375		.87
8	C8	.500	.7500-16 UNF-3A	.688	.875	.844	.219	.344	.750	.875	.598	.682 +.008 -.000	.531	.438		1.01
10	C10	.625	.9375-14 NS-3	.812	1.062	1.062	.250	.438	.938	1.062	.719	.848 +.004 -.000	.625	.531	.8911 +.0036 -.0000	1.23
12		.750	1.1250-12 UNF-3A	.875	1.250	1.250		.531	1.062	1.250	.863	1.305 +.009 -.000	.729	.625		1.44
16		1.000	1.5000-12 UNF-3A	1.000	1.750	1.688	.312	.562	1.5	1.750	1.140	1.410 +.009 -.000	.750			2.02

TABLE I. Dash numbers and size – Continued. 1/ 2/

Dash number	Corrosion resistant steel	Tubing outside diameter	Thread T MIL-S-7742	A ±.381	B	C Diameter (dia.)	D Reference	E ±.381	F Dia.	G Dia.	H +.102 -.000 Dia.	J Diameter	K	L	P Pitch dia.	Q Reference
2	C2	3.175	.3125-32 UNEF-3A	11.125	9.525	9.525		8.738	7.925	9.525	4.394	7.087 +.1016 -.000	7.137	5.944		10.922
3	C3	4.775	.3750-24 UNF-3A	12.700	11.125	11.125		10.312	9.525	11.125	6.528	8.386 +.1524 -.000	8.331	7.137		12.954
4	C4	6.350	.4375-20 UNF-3A	12.700	14.275	13.487	3.962	6.350	11.125	12.700	8.026	9.779 +.127 -.000	9.525	7.925		16.510
5	C5	7.925	.5000-20 UNF-3A	13.487	15.875	15.088		7.137	13.487	15.088	9.627	11.354 +.1524 -.000	10.312	8.738		18.288
6	C6	9.525	.6250-18 UNF-3A	14.275	19.050	18.263	4.775		15.875	18.263	12.014	14.351 +.2032 -.000	11.125	9.525		22.098
8	C8	12.700	.7500-16 UNF-3A	17.475	22.225	21.438	5.563	8.738	19.050	22.225	15.189	17.323 +.2032 -.000	13.487	11.125		25.654
10	C10	15.875	.9375-14 NS-3	20.625	26.975	26.975	6.350	11.125	23.825	26.975	18.263	21.539 +.1016 -.000	15.875	13.487	22.6339 +.09144 -.0000	31.242
12		19.050	1.1250-12 UNF-3A	22.225	31.750	31.75		13.487	26.975	31.750	21.920	33.147 +.2286 -.000	18.263	15.875		36.576
16		25.400	1.5000-12 UNF-3A	25.400	44.450	42.875	7.925	14.275	38.100	44.450	28.953	35.814 +.2286 -.000	19.050			51.308

1/ Dimensions are in inches

2/ Metric equivalents are given for information only.

REQUIREMENTS

Dimensions. See table I. Unless otherwise specified tolerances on decimals are ± 0.010 , angles $\pm 0.5^\circ$.

Configuration. See figure 1.

Inactive for new design. Dash numbers 12 and 16 are inactive for new design.

Dash numbers 2, 3 and 4 are inactive for new design except for use in oxygen systems and engine primer lines.

Dash numbers 5, 6, 8 and 10 are inactive for new design and are not to be used on engine primer lines.

Materials: Brass; bars, shapes or forgings.
Corrosion – resistant steel; bars, shapes or forgings.
See procurement specification.

Finish: See procurement specification.

Identification of product. Add P before the dash number for cadmium – plated brass nipple.

AN805 X X
└─ Size
└─ Material, finish
└─ Drawing number

Example of Part or Identifying Number (PIN): AN805-4 nut - union, brass, for .250 tubing OD.

AN805P4 nut - union, brass, cadmium plated, for .250 tubing OD.

AN805C4 nut - union, corrosion resistant steel, for .250 tubing OD.

Workmanship. Break all sharp edges and remove all hanging burrs and slivers which might become dislodged under usage.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Referenced documents. In addition to MIL-DTL-6001, this document references the following:

MIL-S-7742

CONCLUDING MATERIAL

Custodians:
Army – AR
Navy – SH
Air Force - 99
DLA - CC

Preparing activity:
DLA - CC

(Project 4730-2010-185)

Review activities:
Army – AT, AV, CR4
Navy – AS, CG, MC, SA, YD
Air Force - 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil>.