

REV.
B

SAE AS5179

FEDERAL SUPPLY CLASS
4730

RATIONALE

SAFETY WIRE HOLE OPTION ADDED, CADMIUM NOTICE NOTE ADDED, NADCAP QML NOTE UPDATED, AND CANCELLED REFERENCE DOCUMENTS REPLACED WITH ACTIVE DOCUMENTS.

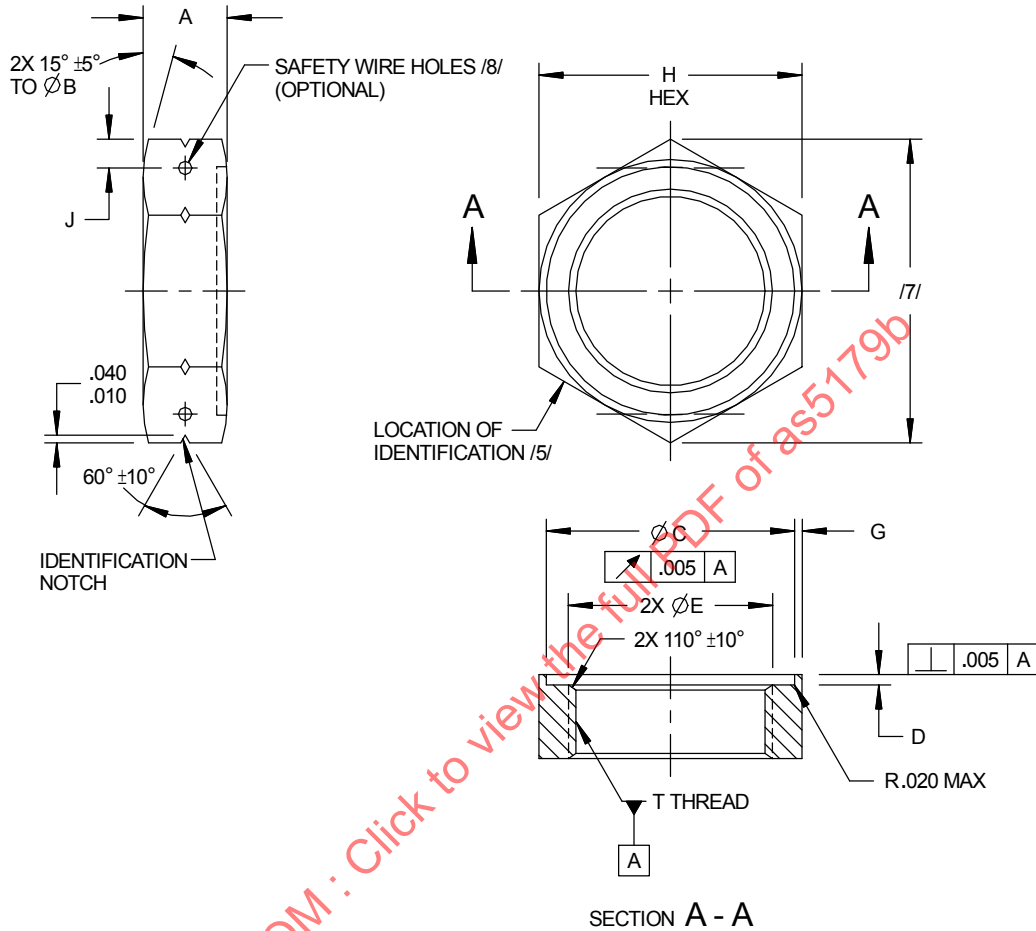
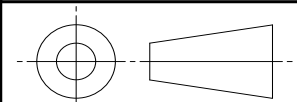


FIGURE 1 - FITTING, NUT

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS5179B>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4841

SAE Aerospace
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AEROSPACE STANDARD

NUT, FITTING, PORT

SAE AS5179
SHEET 1 OF 4

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TABLE 1 – DIMENSIONS

BASIC NO. AS5179 /15/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3B	A	B MIN	C ±.005	D ±.005	E ±.010	G MIN	H	J /8/
02	.125	.3125-24 UNJF	.250	.563	.483	.037	.323	.032	.552-.565	.092 - .102
03	.188	.3750-24 UNJF	.250	.625	.546	.037	.385	.032	.615-.628	.092 - .102
04	.250	.4375-20 UNJF	.281	.688	.608	.042	.448	.032	.678-.691	.092 - .102
05	.312	.5000-20 UNJF	.281	.750	.670	.042	.510	.032	.740-.753	.092 - .102
06	.375	.5625-18 UNJF	.297	.813	.733	.042	.573	.032	.802-.816	.092 - .102
08	.500	.7500-16 UNJF	.344	1.000	.920	.042	.760	.032	.990-1.003	.113 - .123
10	.625	.8750-14 UNJF	.391	1.125	1.045	.054	.885	.032	1.113-1.128	.140 - .160
12	.750	1.0625-12 UNJ	.438	1.375	1.295	.054	1.073	.032	1.362-1.380	.140 - .160
16	1.000	1.3125-12 UNJ	.438	1.625	1.541	.054	1.323	.027	1.613-1.630	.140 - .160
20	1.250	1.6250-12 UNJ	.438	1.938	1.854	.054	1.635	.027	1.926-1.943	.140 - .160
24	1.500	1.8750-12 UNJ	.438	2.188	2.104	.054	1.885	.027	2.172-2.198	.140 - .160
28	1.750	2.2500-12 UNJ	.438	2.563	2.478	.054	2.260	.027	2.546-2.572	.140 - .160
32	2.000	2.5000-12 UNJ	.438	2.813	2.728	.054	2.510	.027	2.797-2.823	.140 - .160

TABLE 2 – WEIGHTS

BASIC NO. AS5179 /15/ SIZE CODE	(NOMINAL TUBE SIZE)	LB/100 APPROX REF ALUM	LB/100 APPROX REF CRES	LB/100 APPROX REF TI
02	.125	.522	1.49	.827
03	.188	.606	1.74	.963
04	.250	.786	2.26	1.24
05	.312	.882	2.53	1.40
06	.375	1.04	3.00	1.66
08	.500	1.61	4.63	2.55
10	.625	2.16	6.21	3.43
12	.750	3.65	10.5	5.77
16	1.000	4.55	13.1	7.20
20	1.250	5.72	16.5	9.09
24	1.500	6.71	19.3	10.6
28	1.250	8.26	23.8	13.1
32	2.000	9.36	26.9	14.9

NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

/1/ MATERIAL:

- a. DASH AS CODE LETTER - TYPE 4130 ALLOY STEEL BAR PER AMS6370 OR TYPE 4140 PER AMS6382. /2/
- b. CODE LETTER D - TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS4339. /2/
- c. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS5639.
- d. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS5648.
- e. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS5645.
- f. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS4928.
- g. CODE LETTER W - TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9 OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124. /2/

/2/ HEAT TREATMENT

- a. DASH AS CODE LETTER - SEE HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- b. MATERIAL CODE LETTERS D AND W - SEE ELECTRICAL CONDUCTIVITY AND HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- c. OTHER MATERIAL CODE LETTERS - NONE.

3. FINISH:

- a. DASH AS CODE LETTER - CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2, DYE BLACK AND COAT WITH A LIGHT FILM OF OIL PER PROCUREMENT SPECIFICATION.
- b. MATERIAL CODE LETTER D - ANODIZE PER AMS2472 OR AMS-A-8625, TYPE II, CLASS 2, DYE BLUE, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
- c. MATERIAL CODE LETTERS J, K, AND R - PASSIVATE PER AMS2700, TYPE 6 OR TYPE 7.
- d. MATERIAL CODE LETTER T - ANODIZE PER AMS2488 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS2486 WITH COLOR PER PROCUREMENT SPECIFICATION.
- e. MATERIAL CODE LETTER W - ANODIZE PER AMS2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.

/4/ PROCUREMENT SPECIFICATION: AS4841 EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER LISTED IN THE NATIONAL AEROSPACE AND DEFENSE CONTRACTORS ACCREDITATION PROGRAM (NADCAP) QUALIFIED MANUFACTURER LIST (QML) FOR THIS PRODUCT TYPE. THE QML IS AVAILABLE AT www.eauditnet.com.

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