

REV.
D

AS5179™

FEDERAL SUPPLY CLASS
4730

RATIONALE

OPTIONAL MATERIAL SPECIFICATIONS ADDED TO 4130 AND 4140 MATERIALS. OPTIONAL ZINC-NICKEL FINISH PER MIL-PRF-32647 K16 ADDED. QML NOTE UPDATED TO CURRENT VERBIAGE. EXPLANATION OF IDENTIFICATION NOTCHES ADDED TO NOTE 6. NEW NOTES 17 AND 18 ADDED.

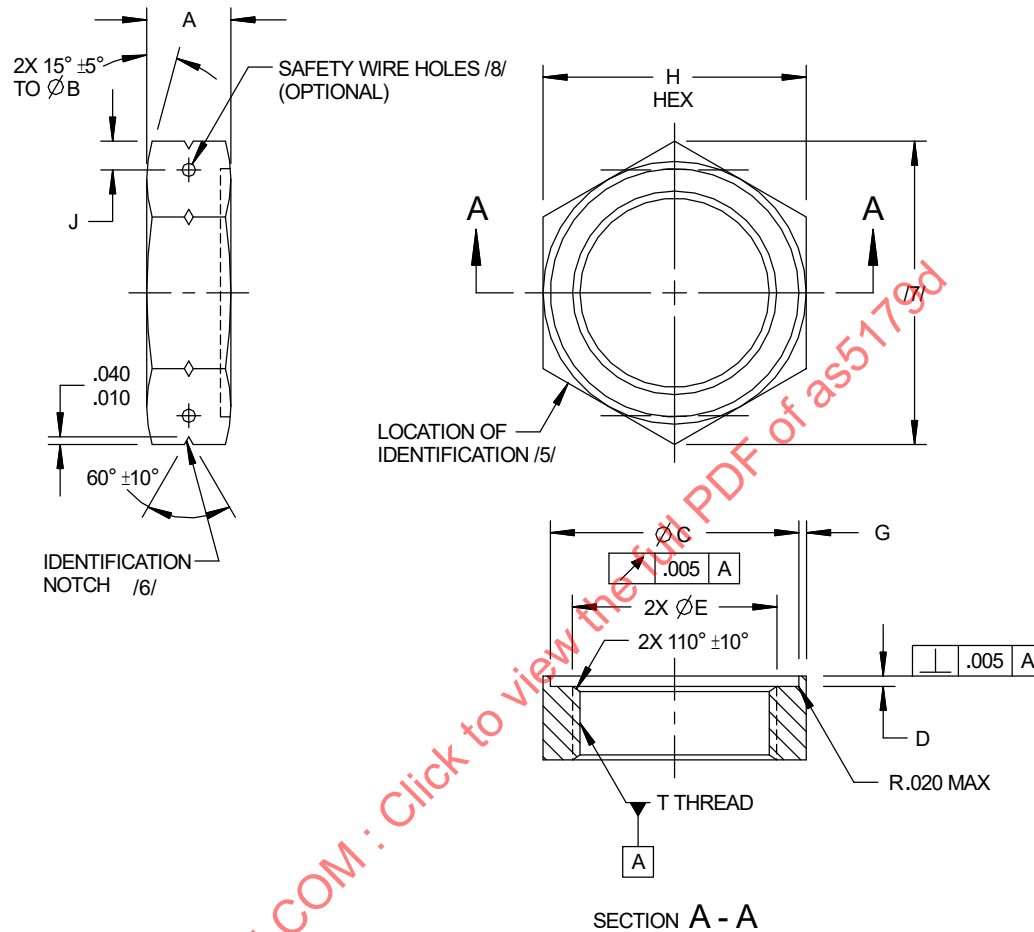
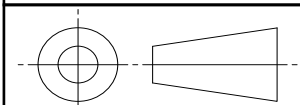


FIGURE 1 - FITTING, NUT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS5179D/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4841 /4/



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TABLE 1 - DIMENSIONS A-J

BASIC NO. AS5179 /16/ 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 /16/ 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



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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 AMS-S-6758 OR TYPE 4140 PER AMS6349 OR 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 MATERIAL 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 MATERIAL CODE LETTER:
 - (1) "-" CODE PARTS TO BE CADMIUM PLATED WILL HAVE NO FINISH CODE LETTER AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE CADMIUM PLATED PER AMS-QQ-P-416, TYPE II, CLASS 2, DYE BLACK AND COAT WITH A LIGHT FILM OF OIL PER PROCUREMENT SPECIFICATION.
 - (2) "-" CODE PARTS TO BE PLATED WITH ZINC-NICKEL PLATING PER MIL-PRF-32647, TYPE K16 ONLY, WILL HAVE THE FINISH CODE LETTER "U" AFTER THE SIZE CODE IN THE PART NUMBER.
- b. MATERIAL CODE LETTER D: ANODIZE PER AMS2472 OR MIL-PRF-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:
 - (1) W CODE PARTS TO BE ANODIZED ONLY WILL HAVE NO FINISH CODE LETTER AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE ANODIZED PER AMS2472 OR PER MIL-PRF-8625, TYPE II, CLASS 2, DYE BROWN, SIMILAR TO COLOR 10080 OF AMS-STD-595.
 - (2) W CODE PARTS TO BE COATED WITH HIGH PURITY ALUMINUM ONLY WILL HAVE THE FINISH CODE LETTER "V" AFTER THE SIZE CODE IN THE PART NUMBER. SEE PROCUREMENT SPECIFICATION FOR REQUIREMENTS. /9/

- /4/ PROCUREMENT SPECIFICATION: AS4841, EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT MANUFACTURED TO THIS STANDARD SHALL MEET THE REQUIREMENTS SPECIFIED HEREIN AND THE PROCUREMENT SPECIFICATION. ORIGINAL COMPONENT MANUFACTURERS (OCM) SHALL BE LISTED IN THE NADCAP QUALIFIED MANUFACTURER LIST (QML) FOR THIS PRODUCT TYPE. THE QML IS AVAILABLE AT www.eAuditNet.com.

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