

REV.
A

AS5179

FEDERAL SUPPLY CLASS
4730

RATIONALE

THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

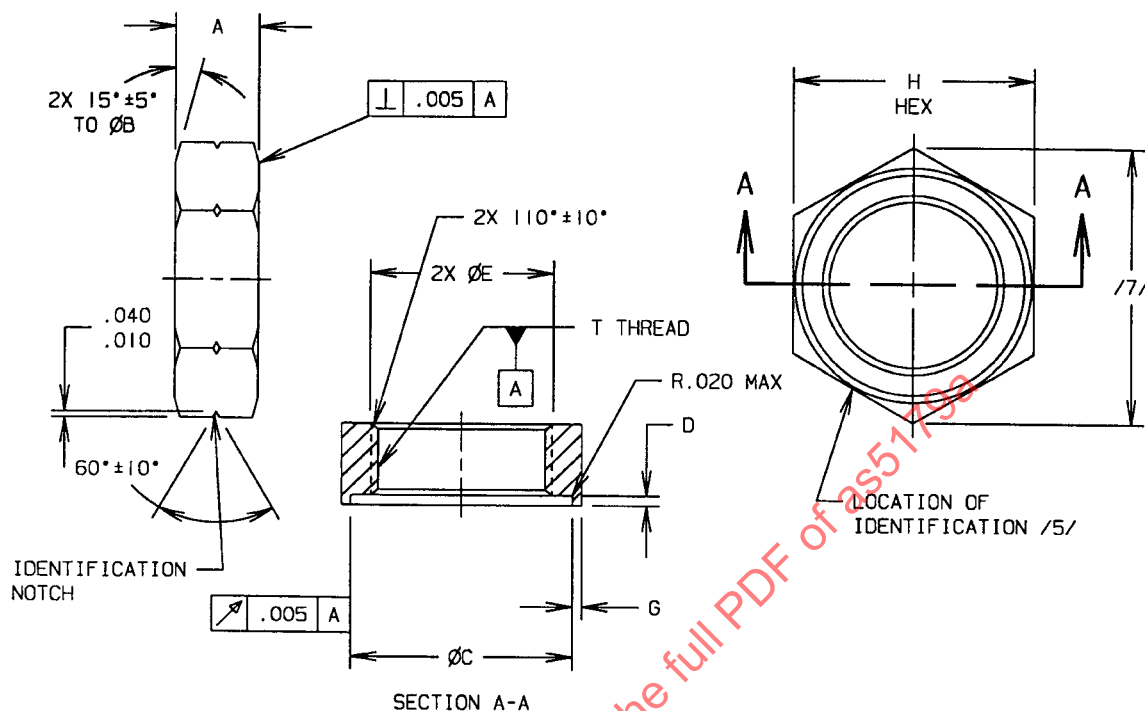
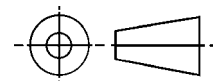


FIGURE 1 - FITTING, NUT

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. AS5179 /13/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3B	A	B MIN	C ±.005	D ±.005	E ±.010	G MIN	H	LB/100 APPROX MAX AL	LB/100 APPROX MAX STEEL	LB/100 APPROX MAX TI
02	.125	.3125-24 UNJF	.250	.563	.483	.037	.323	.032	.552-.565	.522	1.49	.827
03	.188	.3750-24 UNJF	.250	.625	.546	.037	.385	.032	.615-.628	.606	1.74	.963
04	.250	.4375-20 UNJF	.281	.688	.608	.042	.448	.032	.678-.691	.786	2.26	1.24
05	.312	.5000-20 UNJF	.281	.750	.670	.042	.510	.032	.740-.753	.882	2.53	1.40
06	.375	.5625-18 UNJF	.297	.813	.733	.042	.573	.032	.803-.816	1.04	3.00	1.66
08	.500	.7500-16 UNJF	.344	1.000	.920	.042	.760	.032	.990-1.003	1.61	4.63	2.55
10	.625	.8750-14 UNJF	.391	1.125	1.045	.054	.885	.032	1.113-1.128	2.16	6.21	3.43
12	.750	1.0625-12 UNJ	.438	1.375	1.295	.054	1.073	.032	1.362-1.380	3.65	10.5	5.77
16	1.000	1.3125-12 UNJ	.438	1.625	1.541	.054	1.323	.027	1.613-1.630	4.55	13.1	7.20
20	1.250	1.6250-12 UNJ	.438	1.938	1.854	.054	1.635	.027	1.926-1.943	5.72	16.5	9.09
24	1.500	1.8750-12 UNJ	.438	2.188	2.104	.054	1.885	.027	2.172-2.198	6.71	19.3	10.6
28	1.750	2.2500-12 UNJ	.438	2.563	2.478	.054	2.260	.027	2.546-2.572	8.26	23.8	13.1
32	2.000	2.5000-12 UNJ	.438	2.813	2.728	.054	2.510	.027	2.797-2.823	9.36	26.9	14.9

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4841

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

NUT, FITTING, PORT

AS5179
SHEET 1 OF 3

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AS5179

NOTES:

/1/ MATERIAL:

- a. DASH AS CODE LETTER - TYPE 4130 CARBON STEEL BAR PER AMS 6370 OR TYPE 4140 PER AMS 6382. /2/
- b. CODE LETTER D - TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS 4112 OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6. /2/
- c. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS 5639.
- d. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS 5648.
- e. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS 5645.
- f. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS 4928.
- g. CODE LETTER W - TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9 OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124. /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 AMS 2472 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 AMS-QQ-P-35, TYPE VI OR VII.
- d. MATERIAL CODE LETTER T - ANODIZE PER AMS 2488 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486 WITH COLOR PER PROCUREMENT SPECIFICATION.
- e. MATERIAL CODE LETTER W - ANODIZE PER AMS 2472 OR AMS-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.

/4/ PROCUREMENT SPECIFICATION: AS4841 EXCEPT AS SPECIFIED ON THIS STANDARD. USERS OF THIS STANDARD SHALL PROCURE THIS PRODUCT FROM ACCREDITED MANUFACTURER(S) OR ACCREDITED DISTRIBUTOR(S) AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED MANUFACTURERS LIST (QML) FOR THIS TYPE PRODUCT.

/5/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D OR METHOD 7A3, 15A3, OR 15B.

- a. FOR SIZES 06 AND SMALLER: MARK TRADEMARK, CAGE CODE OR TRADEMARK, LETTER "AS" AND MATERIAL CODE LETTER.
- b. FOR SIZES 08 AND LARGER: MARK TRADEMARK, CAGE CODE OR TRADEMARK, BASIC PART NUMBER AND MATERIAL CODE LETTER.

6. INTENDED USE: THIS STANDARD IS THE FUNCTIONAL EQUIVALENT OF AN6289 AND IS INTENDED TO BE SUITABLE AS A REPLACEMENT STANDARD.

/7/ THE HEX CORNERS MAY BE ROUNDED PER ARP1942.

8. INTERPRETATION OF DRAWING PER ARP4296.

9. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 μ in Ra. SURFACES OF HEX FLATS MAY BE 250 μ in Ra.

10. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.

11. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.

12. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS $\pm$.016, ANGULAR DIMENSIONS $\pm$ 0°30'.

/13/ EXAMPLE OF PART NUMBER:

AS5179 W 08

BASIC PART NUMBER ——— SIZE CODE, TUBE SIZE
IN .062 INCREMENTS

MATERIAL CODE LETTER /1/ ———