

RATIONALE

AS5175 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

AS5175

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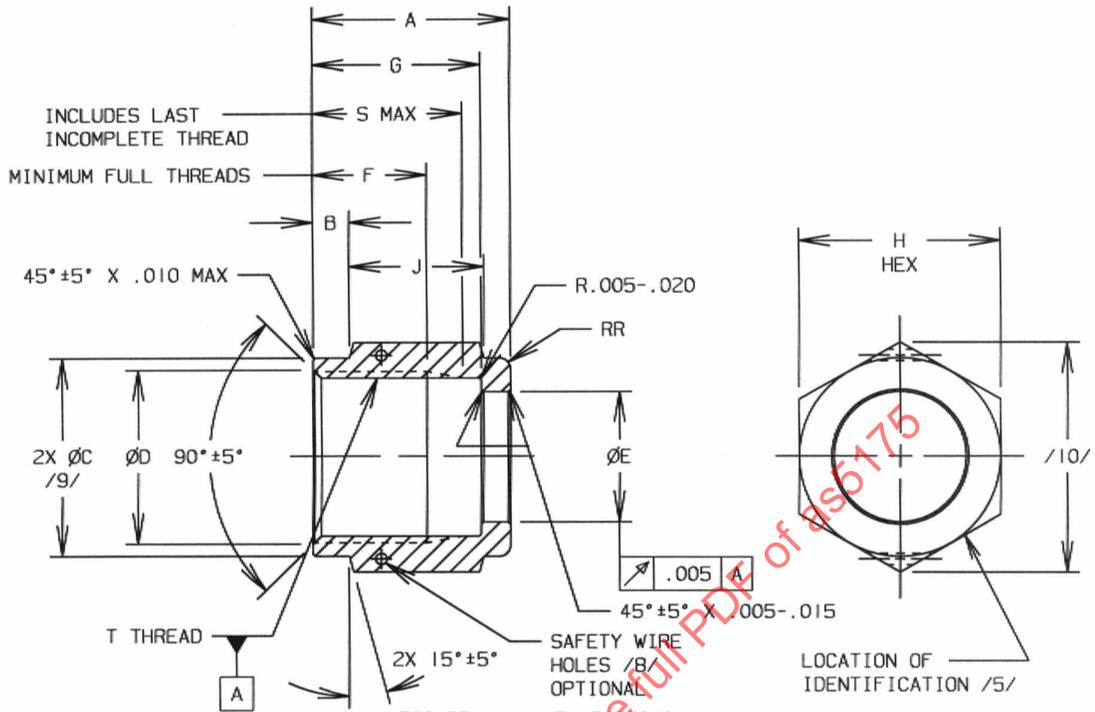


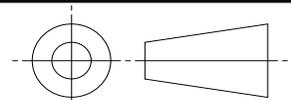
FIGURE 1 - NUT, FITTING

TABLE 1 - DIMENSIONS

BASIC NO. AS5175 /17/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3B	A	B	C	D ±.015	E +.003/- .000	F
02	.125	.3125-24 UNJF	.537-.547	.109	.370	.327	.180	.251
03	.188	.3750-24 UNJF	.599-.609	.141	.432	.390	.242	.338
04	.250	.4375-20 UNJF	.615-.625	.125	.557	.453	.305	.380
05	.312	.5000-20 UNJF	.678-.688	.125	.620	.515	.374	.401
06	.375	.5625-18 UNJF	.714-.734	.156	.682	.577	.440	.413
08	.500	.7500-16 UNJF	.839-.859	.156	.870	.765	.570	.484
10	.625	.8750-14 UNJF	.964-.984	.172	.995	.890	.698	.542
12	.750	1.0625-12 UNJ	1.011-1.031	.125	1.245	1.078	.834	.537
16	1.000	1.3125-12 UNJ	1.121-1.141	.219	1.495	1.328	1.089	.563
20	1.250	1.6250-12 UNJ	1.214-1.234	.312	1.995	1.640	1.347	.563
24	1.500	1.8750-12 UNJ	1.402-1.422	.359	2.245	1.890	1.617	.661
28	1.750	2.2500-12 UNJ	1.558-1.578	.375	2.620	2.265	1.890	.730
32	2.000	2.5000-12 UNJ	1.730-1.750	.438	2.870	2.515	2.167	.844
40	2.500	3.0000-12 UNJ	1.621-1.641	.406	3.370	3.015	2.667	.718
48	3.000	3.5000-12 UNJ	1.746-1.766	.438	3.995	3.515	3.180	.781

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS5175>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4841



AEROSPACE STANDARD

NUT, COUPLING, FLARED

AS5175
SHEET 1 OF 3

TABLE 1A - DIMENSIONS AND WEIGHTS

BASIC NO. AS5175 /17/ SIZE CODE	G	H	J	R	S	LB/100 APPROX REF AL	LB/100 APPROX REF STEEL	LB/100 APPROX REF TI
02	.460	.365-.377	.312	.031	.376	.359	1.03	.569
03	.506	.428-.440	.375	.031	.428	.469	1.35	.742
04	.532	.552-.565	.406	.031	.500	.973	2.79	1.54
05	.579	.615-.628	.484	.031	.542	1.22	3.51	1.94
06	.603	.678-.691	.500	.047	.569	1.47	4.22	2.33
08	.723	.865-.878	.578	.047	.647	2.47	7.10	3.92
10	.817	.990-1.003	.688	.047	.727	3.42	9.81	5.41
12	.868	1.238-1.253	.750	.062	.753	6.24	17.9	9.89
16	.962	1.488-1.505	.766	.078	.813	8.52	24.6	13.5
20	1.017	1.982-2.005	.766	.094	.813	19.8	56.8	31.5
24	1.170	2.234-2.260	.875	.094	.911	26.4	75.7	41.8
28	1.316	2.609-2.635	1.000	.094	.930	36.3	104	57.5
32	1.462	2.859-2.885	1.078	.109	1.094	44.8	129	71.0
40	1.328	3.359-3.385	.969	.109	.968	51.6	148	81.7
48	1.452	3.984-4.010	1.063	.109	1.031	81.8	235	130

NOTES:

/1/ MATERIAL:

- a. CODE LETTER F - TYPE 4130 STEEL ALLOY PER AMS-S-6758 OR AMS 6370 OR TYPE 4140 PER AMS-S-5626 OR AMS 6382. /2/
- b. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS 5639.
- c. 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/ HEAT TREATMENT:

- a. CODE LETTER F - SEE HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- b. OTHER CODE LETTERS - NONE.

3. FINISH:

- a. CODE LETTER F - CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2, DYE BLACK AND COAT WITH A LIGHT FILM OF OIL PER PROCUREMENT SPECIFICATION. /16/
- b. MATERIAL CODE LETTERS J, K, AND R - PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
- c. MATERIAL CODE LETTER T - ANODIZE PER AMS 2488, TYPE 2 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486 WITH COLOR PER PROCUREMENT SPECIFICATION. BARE AREAS OCCURRING ON SEALING, BEARING OR THREADED SURFACES SHALL BE CAUSE FOR REJECTION. BARE AREAS SHALL NOT EXCEED 30% OF THE REMAINING SURFACE AREA.
- d. MATERIAL CODE LETTER W - ANODIZE PER AMS 2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.