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REV.
D

AS5168™

FEDERAL SUPPLY CLASS
4730

RATIONALE

GRAPHICS REDRAWN. OPTION FOR SAFETY WIRE HOLES ADDED. OPTIONAL AMS MATERIAL SPEC ADDED FOR MATERIAL CODE W. OUTDATED SPECIFICATIONS UPDATED TO CURRENT NOMENCLATURE. REFERENCE TO VAD IN PROCUREMENT NOTE REMOVED; VAD IS NOT APPLICABLE FOR THIS ITEM. PROCUREMENT SPECIFICATION NOTE UPDATED TO CURRENT VERBIAGE.

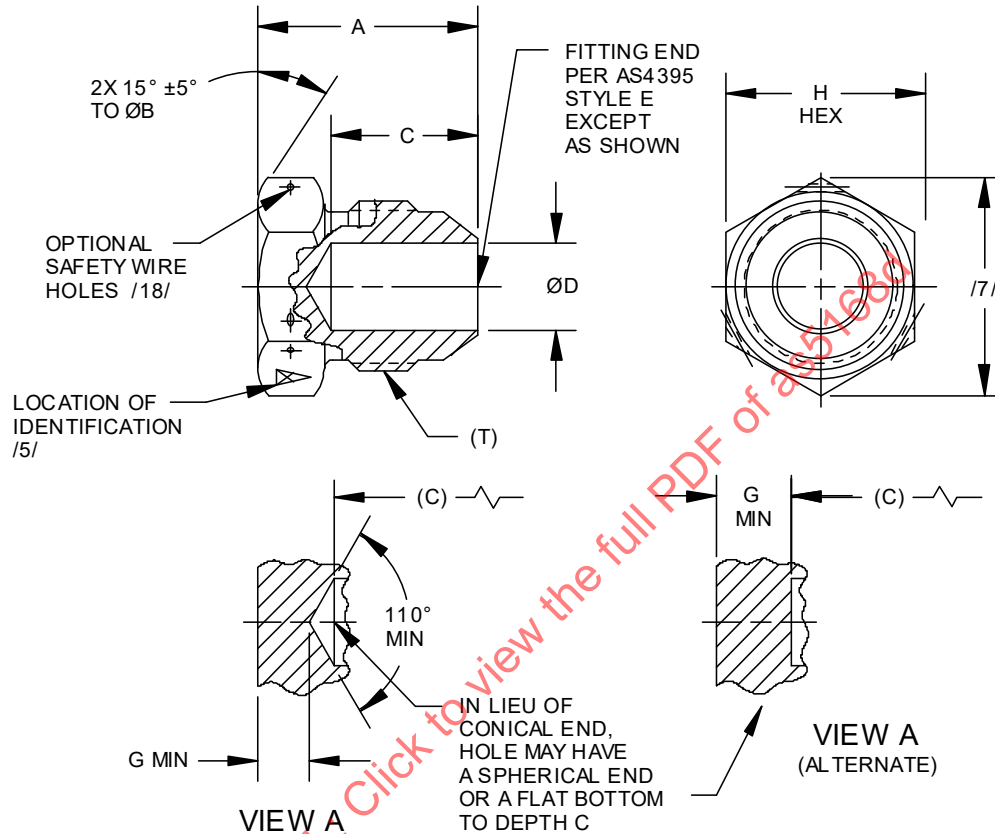
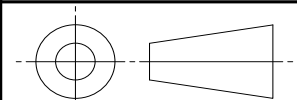


FIGURE 1 - FITTING, PLUG

NOT RECOMMENDED IN PART /17/

For more information on this standard, visit
<https://www.sae.org/standards/content/AS5168D/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4841 /4/



AEROSPACE STANDARD

FITTING, PLUG, TUBE END, FLARED

AS5168™
SHEET 1 OF 4

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ISSUED 1998-03 REAFFIRMED 2015-04 REVISED 2025-02

TABLE 1A - DIMENSIONS A-G

BASIC NO. AS5168 /13/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3A	A	B ±010	C	D	G
02	.125	.3125-24 UNJF	.641	.418	.469	.062	.109
03	.188	.3750-24 UNJF	.672	.418	.469	.125	.109
04	.250	.4375-20 UNJF	.734	.480	.531	.171	.109
05	.312	.5000-20 UNJF	.766	.542	.531	.234	.125
06	.375	.5625-18 UNJF	.812	.605	.562	.296	.125
08	.500	.7500-16 UNJF	.938	.792	.625	.391	.156
10	.625	.8750-14 UNJF	1.109	.918	.766	.484	.156
12	.750	1.0625-12 UNJ	1.203	1.103	.812	.609	.188
16	1.000	1.3125-12 UNJ	1.281	1.353	.812	.845	.188
20	1.250	1.6250-12 UNJ	1.359	1.666	.750	1.080	.234
24	1.500	1.8750-12 UNJ	1.484	1.978	.812	1.312	.234
28	1.750	2.2500-12 UNJ	1.609	2.349	.781	1.550	.312
32	2.000	2.5000-12 UNJ	1.734	2.599	.828	1.784	.328

TABLE 1B - DIMENSION H AND WEIGHTS

BASIC NO. AS5168 /13/ SIZE CODE	H	LB/100 MAX AL	LB/100 MAX STEEL	LB/100 MAX TI
02	.428-.440	.591	1.70	.936
03	.428-.440	.709	2.04	1.12
04	.490-.502	.965	2.77	1.53
05	.552-.565	1.30	3.72	2.05
06	.615-.628	1.70	4.89	2.70
08	.802-.815	3.42	9.82	5.42
10	.928-.941	5.45	15.6	8.63
12	1.113-1.128	8.15	23.4	12.9
16	1.363-1.380	12.5	36.0	19.8
20	1.676-1.693	22.0	63.8	35.2
24	1.988-2.005	32.3	92.9	51.2
28	2.359-2.385	50.9	146	80.7
32	2.609-2.635	68.8	198	109



AEROSPACE STANDARD

FITTING, PLUG, TUBE END, FLARED

AS5168™
SHEET 2 OF 4REV.
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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.

CADMIUM IS CARCINOGENIC TO HUMANS (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), GROUP 1) AND IS HAZARDOUS TO ECOSYSTEMS AND HUMAN HEALTH. SUGGEST USE OF ALTERNATIVE MATERIALS, WHEN POSSIBLE.

/1/ MATERIAL:

- a. DASH AS CODE LETTER - TYPE 1137 CARBON STEEL PER ASTM A108 OR TYPE 4130 PER AMS-S-6758 OR AMS6370 OR TYPE 4140 PER AMS6349 OR AMS6382.
- 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. /17/
- 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 AMS4141; OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124.

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 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, TYPE 2 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS2486 WITH COLOR PER PROCUREMENT SPECIFICATION.
- e. MATERIAL CODE LETTER W - ANODIZE PER AMS2472 OR MIL-PRF-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.

/4/ PROCUREMENT SPECIFICATION: AS4841, EXCEPT AS SPECIFIED IN 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.

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

- a. FOR SIZE 06 AND SMALLER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, LETTERS "AS" AND MATERIAL CODE LETTER.
- b. FOR SIZE 08 AND LARGER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER, AND MATERIAL CODE LETTER.

6. INTENDED USE: THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURES AS SPECIFIED IN THE PROCUREMENT SPECIFICATION.

	AEROSPACE STANDARD		AS5168™ SHEET 3 OF 4	REV. D
	FITTING, PLUG, TUBE END, FLARED			