

AS5168

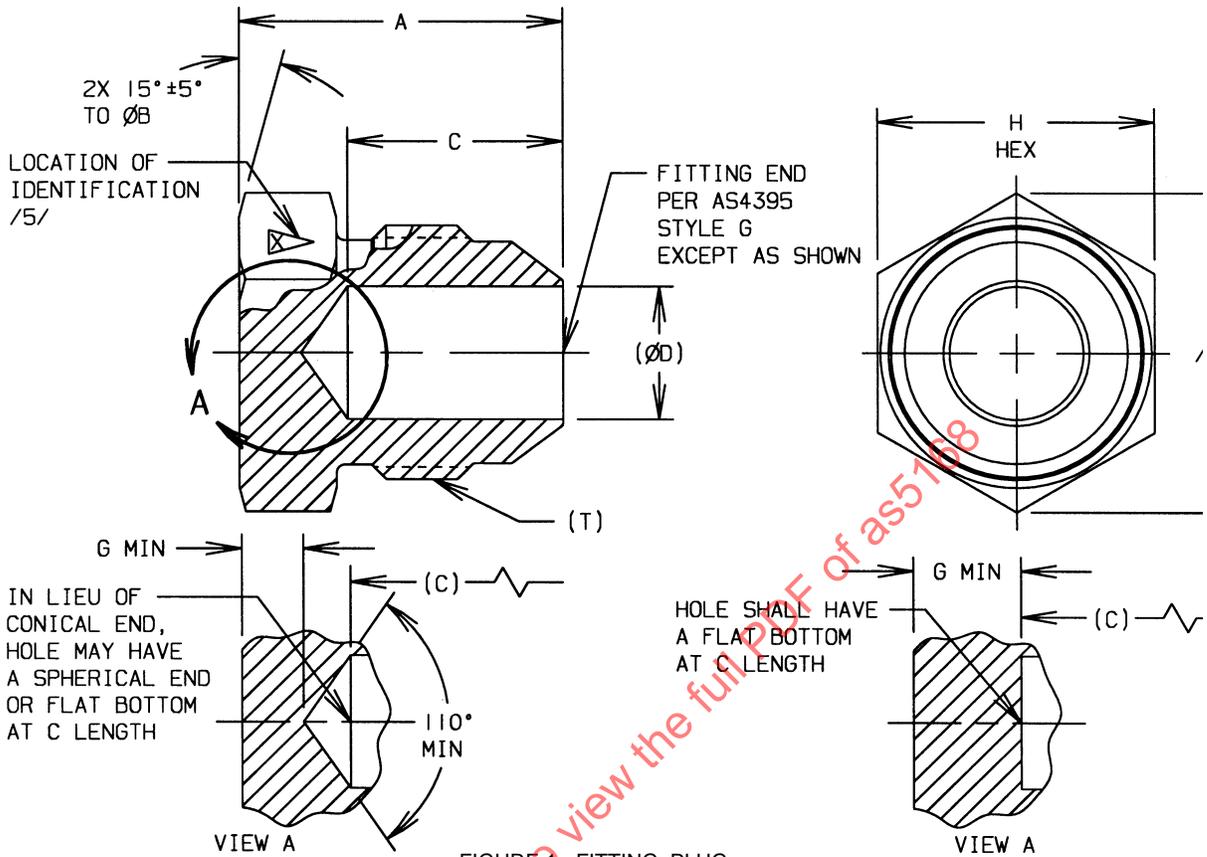
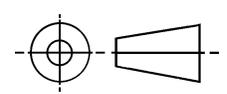


FIGURE 1 - FITTING, PLUG

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THIRD ANGLE PROJECTION



ISSUED 1998-03

CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: AS4841 /4/

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

FITTING, PLUG, TUBE END, FLARED

AS5168
SHEET 1 OF 4

AS5168

TABLE 1A - DIMENSIONS

BASIC NO. AS5168 /13/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER MIL-S-8879 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 - DIMENSIONS 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

NOTES:

/1/ MATERIAL:

- a. DASH AS CODE LETTER - TYPE 1137 CARBON STEEL PER ASTM A 108 OR TYPE 4130 PER MIL-S-6758 OR AMS 6370 OR TYPE 4140 PER MIL-S-5626 OR AMS 6382. /2/
- b. CODE LETTER D - TYPE 2024-T6 ALUMINUM ALLOY BAR PER QQ-A-225/6 OR AMS 4112 OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER QQ-A-225/6.
- c. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL BAR PER QQ-S-763 OR AMS 5639.
- d. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL BAR PER QQ-S-763 OR AMS 5648.
- e. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL BAR PER 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 QQ-A-225/9 OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124.

/2/ HEAT TREATMENT:

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

3. FINISH:

- a. DASH AS CODE LETTER - CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 2, DYE BLACK AND COAT WITH A LIGHT FILM OF OIL PER PROCUREMENT SPECIFICATION.
- b. CODE LETTER D - ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, DYE BLUE, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
- c. CODE LETTERS J, K, AND R - PASSIVATE PER QQ-P-35, TYPE VI OR VII.
- d. CODE LETTER T - ANODIZE PER AMS 2488 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486 WITH COLOR PER PROCUREMENT SPECIFICATION.
- e. CODE LETTER W - ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.

/4/ PROCUREMENT SPECIFICATION: AS4841 EXCEPT AS SPECIFIED ON THIS STANDARD. THIS PART SHALL BE QUALIFIED TO THE PROCUREMENT SPECIFICATION IN A COMPLETE ASSEMBLY AS APPLICABLE. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.

/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, LETTER "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 FOLLOWS:

- a. SIZES 02 THROUGH 16 IN CARBON STEEL, CORROSION RESISTANT STEEL AND TITANIUM ALLOY AT 3000 psi.
- b. SIZES 02 THROUGH 12 IN ALUMINUM ALLOY AT 3000 psi.
- c. SIZE 16 IN ALUMINUM ALLOY AND SIZES 20 THROUGH 32 IN CARBON STEEL, CORROSION RESISTANT STEEL AND TITANIUM ALLOY AT 1500 psi.

THIS STANDARD IS THE FUNCTIONAL EQUIVALENT OF AN806 AND MS24404 AND IS INTENDED TO BE SUITABLE AS A REPLACEMENT STANDARD.

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