

AS5239

FEDERAL SUPPLY CLASS
4730

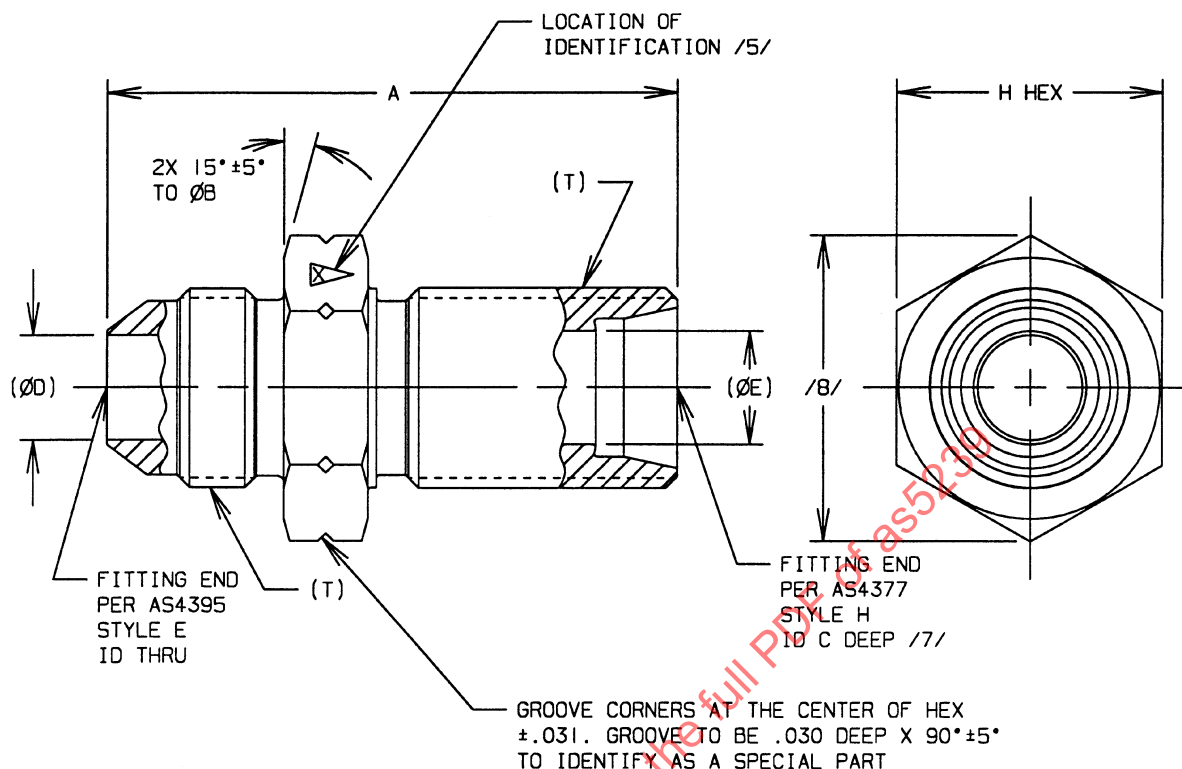
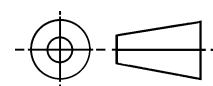


FIGURE 1 - FITTING, ADAPTER

TABLE 1 - DIMENSIONS

BASIC NO. AS5239 /14/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER MIL-S-8879 CLASS 3A	A	B ±.010	C ±.031	D	E
02	.125	.3125-24 UNJF	1.531	.542	.938	.062	.093
03	.188	.3750-24 UNJF	1.625	.605	THRU	.125	.125
04	.250	.4375-20 UNJF	1.750	.668	1.094	.172	.187
05	.312	.5000-20 UNJF	1.781	.730	THRU	.234	.234
06	.375	.5625-18 UNJF	1.891	.792	THRU	.297	.297
08	.422	.7500-16 UNJF	2.125	.980	1.344	.391	.422
10	.500	.8750-14 UNJF	2.375	1.103	1.469	.484	.500
12	.656	1.0625-12 UNJ	2.656	1.353	1.594	.609	.656
16	1.000	1.3125-12 UNJ	2.688	1.603	1.594	.845	.875
20	1.250	1.6250-12 UNJ	2.734	1.853	1.594	1.080	1.093
24	1.500	1.8750-12 UNJ	2.875	2.099	1.594	1.314	1.344
32	2.000	2.5000-12 UNJ	3.562	2.724	2.000	1.784	1.813

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4444

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING, ADAPTER, BULKHEAD, FLARELESS TO FLARED

AS5239
SHEET 1 OF 4

TABLE 1A - DIMENSIONS AND WEIGHTS

BASIC NO. AS5239 /14/ SIZE CODE	H	LB/EA MAX AL	LB/EA MAX STEEL	LB/EA MAX TI
02	.552- .565	.0140	.0403	.0222
03	.615- .628	.0196	.0564	.0311
04	.678- .691	.0247	.0710	.0391
05	.740- .753	.0313	.0899	.0496
06	.802- .815	.0396	.114	.0627
08	.990-1.003	.0708	.203	.112
10	1.113-1.128	.0988	.284	.157
12	1.363-1.380	.161	.462	.255
16	1.613-1.630	.214	.616	.340
20	1.863-1.880	.313	.899	.496
24	2.109-2.225	.394	1.13	.624
32	2.734-2.760	.895	2.57	1.42

NOTES:

/1/ MATERIAL:

- a. DASH AS CODE LETTER - TYPE 4130 CARBON STEEL BAR PER MIL-S-6758 OR AMS 6370. /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. CODE LETTERS D AND W - SEE ELECTRICAL CONDUCTIVITY AND HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- c. OTHER CODE LETTERS - NONE.

NOTES (CONTINUED):

3. FINISH:

- a. DASH AS CODE LETTER - CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 2 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 GREEN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
- c. CODE LETTER 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: AS4444 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 CORROSION RESISTANT STEEL AND TITANIUM ALLOY AT 5000 psi.
- b. SIZE 20 IN CORROSION RESISTANT STEEL AND TITANIUM ALLOY AT 4000 psi.
- c. SIZES 02 THROUGH 12 IN ALUMINUM ALLOY AND SIZE 24 IN CORROSION RESISTANT STEEL AND TITANIUM ALLOY AT 3000 psi.
- d. SIZES 16 THROUGH 20 IN ALUMINUM ALLOY AND SIZE 32 IN CORROSION RESISTANT STEEL AND TITANIUM ALLOY AT 1500 psi.
- e. SIZE 24 IN ALUMINUM ALLOY AT 1000 psi.
- f. SIZE 32 IN ALUMINUM ALLOY AT 600 psi.

THIS STANDARD IS THE FUNCTIONAL EQUIVALENT OF MS21900 AND IS INTENDED TO BE SUITABLE AS A REPLACEMENT STANDARD.

/7/ THE INTERNAL DIAMETER E SHALL END IN A CONICAL END OF 110° MINIMUM INCLUDED ANGLE.

/8/ THE HEX CORNERS MAY BE ROUNDED PER ARP1942.

9. INTERPRETATION OF DRAWING PER ARP4296.

10. 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.

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

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

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