

REV.
B

AS6094™

RATIONALE

FEDERAL SUPPLY CLASS
4730

GRAPHICS REDRAWN TO SHOW PROPER REPRESENTATION OF SPHERICAL DESIGN END AS5309 STYLE G.
OPTIONAL MATERIAL SPECIFICATIONS ADDED. QML STATEMENT REVISED. INTENDED USE NOTE 6 REVISED.
GENERAL UPDATES INCORPORATED.

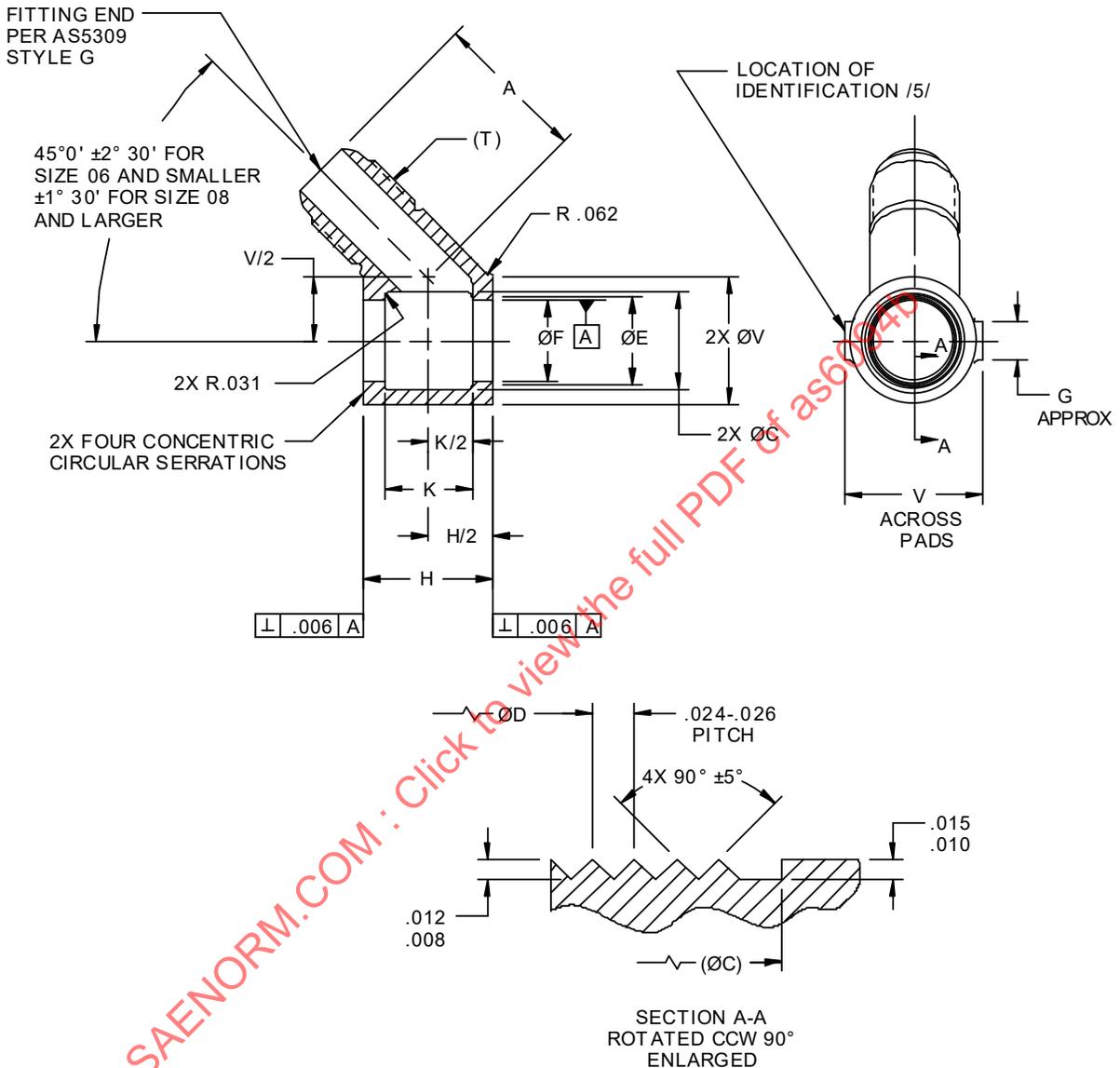
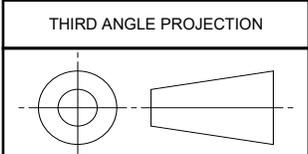


FIGURE 1 - FITTING, CONNECTOR, 45°

For more information on this standard, visit
<https://www.sae.org/standards/content/AS6094B/>



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4875/1 /4/



AEROSPACE STANDARD

FITTING, 37° SPHERICAL FLARED,
CONNECTOR, MULTIPLE
FLUID PRESSURE LINE, 45°

AS6094™
SHEET 1 OF 4

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ISSUED 2011-05 REVISED 2021-06

TABLE 1A - DIMENSIONS A-F

BASIC NO. AS6094 /13/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3A	A ±.023	C ±.005	D ±.005	E	F ±.001
04	.250	.4375-20 UNJF	1.023	.692	.474	.562	.439
05	.312	.5000-20 UNJF	1.023	.755	.536	.625	.501
06	.375	.5625-18 UNJF	1.085	.817	.599	.750	.564
08	.500	.7500-16 UNJF	1.335	1.005	.786	.937	.751
10	.625	.8750-14 UNJF	1.491	1.130	.911	1.125	.876
12	.750	1.0625-12 UNJ	1.648	1.318	1.099	1.375	1.063
16	1.000	1.3125-12 UNJ	1.866	1.568	1.349	1.687	1.313

TABLE 1B - DIMENSIONS G-V AND WEIGHTS

BASIC NO. AS6094 /13/ SIZE CODE	G	H ±.010	K	V	LB/EA REF AL	LB/EA REF STEEL	LB/EA REF TI
04	.437	.750	.375	.797- .815	.0268	.0770	.0425
05	.437	.750	.500	.797- .815	.0221	.0633	.0349
06	.500	.875	.500	.985-1.003	.0387	.111	.0614
08	.500	1.125	.750	1.173-1.191	.0627	.180	.0994
10	.625	1.375	.812	1.355-1.380	.0989	.284	.157
12	.625	1.625	1.000	1.668-1.693	.163	.469	.259
16	.812	2.125	1.500	2.042-2.072	.269	.772	.426

NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

/1/ MATERIAL:

- a. CODE LETTER F: TYPE 4130 ALLOY STEEL FORGING OR BAR PER AMS-S-6758 OR AMS6370; OR TYPE 4140 PER AMS6349 OR AMS6382.
- b. CODE LETTER J: TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5639.
- c. CODE LETTER K: TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5648.
- d. CODE LETTER R: TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5645.
- e. CODE LETTER T: TYPE 6Al-4V TITANIUM ALLOY FORGING OR BAR PER AMS4928.
- f. CODE LETTER W: TYPE 7075-T73 ALUMINUM ALLOY FORGING PER AMS-QQ-A-367 OR AMS4141; OR TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9; OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124.

/2/ HEAT TREATMENT:

- a. MATERIAL CODE LETTER F: REFER TO HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- b. MATERIAL CODE LETTER W: REFER TO ELECTRICAL CONDUCTIVITY AND HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- c. OTHER MATERIAL CODE LETTERS: NONE.

	AEROSPACE STANDARD	AS6094™ SHEET 2 OF 4	REV. B
	FITTING, 37° SPHERICAL FLARED, CONNECTOR, MULTIPLE FLUID PRESSURE LINE, 45°		

3. FINISH:

- a. MATERIAL 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.
- b. MATERIAL CODE LETTERS J, K, AND R: PASSIVATE PER AMS2700, TYPE 6 OR 7.
- c. MATERIAL CODE LETTER T: ANODIZE PER AMS2488 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS2486 WITH COLOR PER PROCUREMENT SPECIFICATION.
- d. MATERIAL CODE LETTER W:
 - 1. ANODIZE PER AMS2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
 - 2. W CODE PARTS TO BE COATED WITH HIGH PURITY ALUMINUM ONLY WILL HAVE THE FINISH CODE LETTER "V" PLACED AFTER THE SIZE CODE IN THE PART NUMBER. HIGH PURITY ALUMINUM COAT PER PROCUREMENT SPECIFICATION.

/4/ PROCUREMENT SPECIFICATION: AS4875/1, EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT MANUFACTURED TO THIS STANDARD SHALL MEET THE REQUIREMENTS SPECIFIED HEREIN AND THE PROCUREMENT SPECIFICATION. ORIGINAL COMPONENT MANUFACTURERS (OCM) AND VALUE ADDED DISTRIBUTORS (VAD) 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, 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 SPECIFIED IN THE PROCUREMENT SPECIFICATION.

7. WHEN MACHINED FROM BAR OR OVERSIZED FORGINGS, THE CENTER BODY SECTION SHALL CONFORM TO AS1376, TABLE 8.

8. INTERPRETATION OF DRAWING PER AS4296.

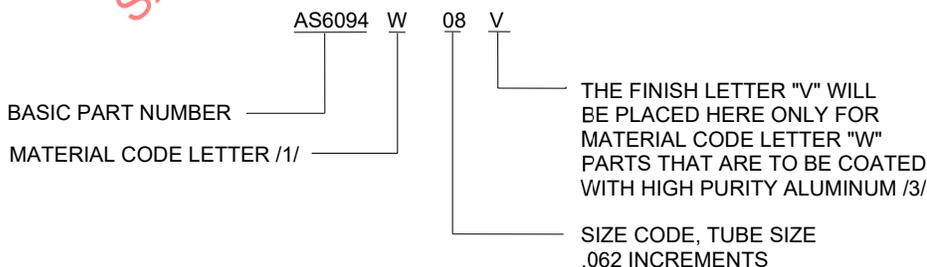
9. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 MICROIINCHES Ra. SURFACES OF HEX FLATS MAY BE 250 MICROIINCHES Ra.

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

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

12. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ± 0.016 , ANGULAR DIMENSIONS $\pm 0^{\circ}30'$.

/13/ EXAMPLE OF PART NUMBER:



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	FITTING, 37° SPHERICAL FLARED, CONNECTOR, MULTIPLE FLUID PRESSURE LINE, 45°		