

RATIONALE

FEDERAL SUPPLY CLASS
4730

OPTIONAL MATERIAL SPECIFICATIONS ADDED. HEAT TREATMENT REQUIREMENT FOR MATERIAL CODE W ADDED TO NOTE 2. QML STATEMENT REVISED. INTENDED USE NOTE 6 REVISED. GENERAL UPDATES INCORPORATED.

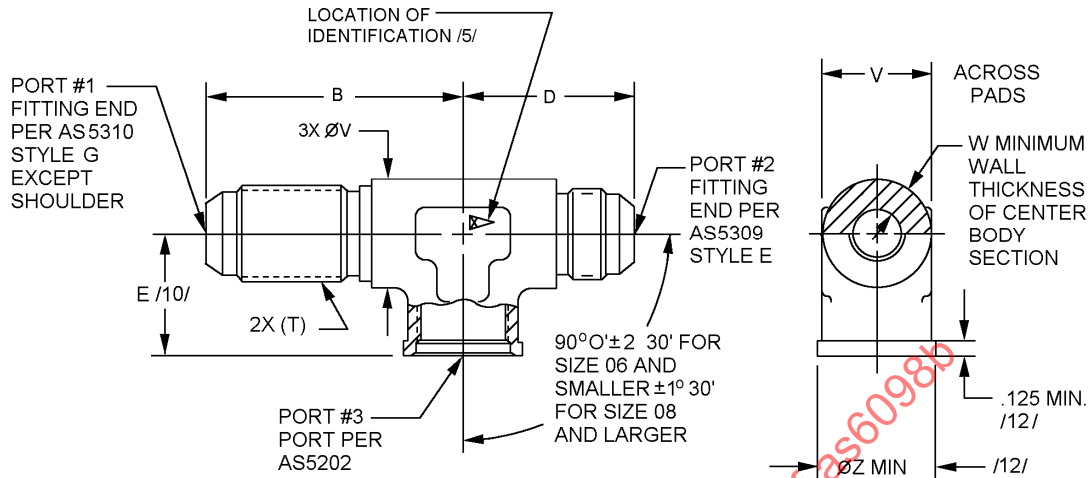


FIGURE 1 - FITTING, TEE, BULKHEAD END
PORT #3 SHOWN AS NON-REDUCER

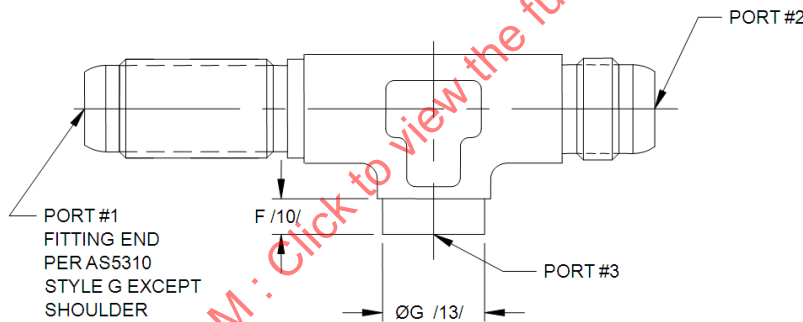
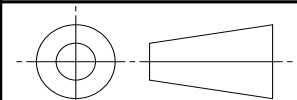


FIGURE 2 - FITTING, TEE, BULKHEAD END
PORT #3 SHOWN AS REDUCER
SAME AS FIGURE 1 EXCEPT AS SHOWN

For more information on this standard, visit
<https://www.sae.org/standards/content/AS6098B/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4875/1 /4/



AEROSPACE STANDARD

FITTING, TEE, STANDARD AND REDUCER,
BULKHEAD ON RUN, INTERNAL ON SIDE,
FLARED, 37° SPHERICAL

AS6098™
SHEET 1 OF 5

REV.
B

TABLE 1 - DIMENSIONS E-Z AND WEIGHTS /16/

BASIC NO. AS6098 /20/ SIZE CODE	E /10/	F /10/	V	W	Z /12/	LB/EA APPROX REF ALUM	LB/EA APPROX REF CRES	LB/EA APPROX REF TI
02	.648	-	.485-	.502	.090	.562	.0348	.0551
03	.711	-	.547-	.565	.100	.625	.0456	.0722
04	.773	.375	.735-	.753	.110	-	.0930	.147
05	.773	.375	.735-	.753	.120	-	.0895	.142
06	.836	.375	.860-	.878	.120	-	.134	.213
08	1.023	.469	1.047-1.065	.150	-	.214	.617	.340
10	1.180	.625	1.047-1.065	.170	1.125	.221	.636	.351
12	1.367	.688	1.292-1.317	.185	1.375	.365	1.05	.579
16	1.555	.719	1.605-1.630	.205	1.625	.527	1.51	.835
20	1.742	.781	1.855-1.880	.240	1.938	.759	2.18	1.20

TABLE 2 - LEG LENGTH B

FORGING SIZE /11/	TUBE SIZE OF PORT #1 02	TUBE SIZE OF PORT #1 03	TUBE SIZE OF PORT #1 04	TUBE SIZE OF PORT #1 05	TUBE SIZE OF PORT #1 06	TUBE SIZE OF PORT #1 08	TUBE SIZE OF PORT #1 10	TUBE SIZE OF PORT #1 12	TUBE SIZE OF PORT #1 16	TUBE SIZE OF PORT #1 20
02	1.491	-	-	-	-	-	-	-	-	-
03	1.523	1.523	-	-	-	-	-	-	-	-
04	1.679	1.679	1.773	-	-	-	-	-	-	-
05	1.679	1.679	1.773	1.773	-	-	-	-	-	-
06	1.851	1.851	1.945	1.945	2.023	-	-	-	-	-
08	1.851	1.851	1.945	1.945	2.023	2.179	-	-	-	-
10	1.929	1.929	2.023	2.023	2.101	2.257	2.398	-	-	-
12	2.008	2.008	2.102	2.102	2.180	2.336	2.477	2.648	-	-
16	2.227	2.227	2.321	2.321	2.399	2.555	2.696	2.867	2.867	-
20	2.367	2.367	2.461	2.461	2.539	2.695	2.836	3.007	3.007	3.054

TABLE 3 - LEG LENGTH D

FORGING SIZE /11/	TUBE SIZE OF PORT #2 02	TUBE SIZE OF PORT #2 03	TUBE SIZE OF PORT #2 04	TUBE SIZE OF PORT #2 05	TUBE SIZE OF PORT #2 06	TUBE SIZE OF PORT #2 08	TUBE SIZE OF PORT #2 10	TUBE SIZE OF PORT #2 12	TUBE SIZE OF PORT #2 16	TUBE SIZE OF PORT #2 20
02	.929	-	-	-	-	-	-	-	-	-
03	.961	.992	-	-	-	-	-	-	-	-
04	1.109	1.140	1.211	-	-	-	-	-	-	-
05	1.109	1.140	1.211	1.211	-	-	-	-	-	-
06	1.165	1.196	1.267	1.267	1.273	-	-	-	-	-
08	1.232	1.283	1.354	1.354	1.360	1.461	-	-	-	-
10	1.338	1.369	1.440	1.440	1.446	1.547	1.648	-	-	-
12	1.420	1.451	1.522	1.522	1.528	1.629	1.730	1.836	-	-
16	1.623	1.654	1.725	1.725	1.731	1.832	1.933	2.039	2.086	-
20	1.763	1.794	1.865	1.865	1.871	1.972	2.073	2.179	2.226	2.273



AEROSPACE STANDARD

FITTING, TEE, STANDARD AND REDUCER,
BULKHEAD ON RUN, INTERNAL ON SIDE,
FLARED, 37° SPHERICAL

AS6098™
SHEET 2 OF 5

**REV.
B**

TABLE 4 - ØG /13/

FORGING SIZE /11/	TUBE SIZE OF PORT #3 02	TUBE SIZE OF PORT #3 03	TUBE SIZE OF PORT #3 04	TUBE SIZE OF PORT #3 05	TUBE SIZE OF PORT #3 06	TUBE SIZE OF PORT #3 08	TUBE SIZE OF PORT #3 10	TUBE SIZE OF PORT #3 12	TUBE SIZE OF PORT #3 16
03	-	-	-	-	-	-	-	-	-
04	.594	.656	-	-	-	-	-	-	-
05	.594	.656	-	-	-	-	-	-	-
06	.594	.656	.719	.781	-	-	-	-	-
08	.594	.656	.719	.781	.844	-	-	-	-
10	.594	.656	.719	.781	.844	-	-	-	-
12	.594	.656	.719	.781	.844	1.062	-	-	-
16	.594	.656	.719	.781	.844	1.062	1.188	1.438	-
20	.594	.656	.719	.781	.844	1.062	1.188	1.438	1.688

TABLE 5 - TUBE SIZE AND CORRESPONDING THREAD

PORT SIZE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3A
02	.125	.3125-24 UNJF
03	.188	.3750-24 UNJF
04	.250	.4375-20 UNJF
05	.312	.5000-20 UNJF
06	.375	.5625-18 UNJF
08	.500	.7500-16 UNJF
10	.625	.8750-14 UNJF
12	.750	1.0625-12 UNJ
16	1.000	1.3125-12 UNJ
20	1.250	1.6250-12 UNJ

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 CARBON 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.

	AEROSPACE STANDARD	AS6098™ SHEET 3 OF 5	REV. B
	FITTING, TEE, STANDARD AND REDUCER, BULKHEAD ON RUN, INTERNAL ON SIDE, FLARED, 37° SPHERICAL		

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.

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 TUBING CONNECTION SYSTEMS WITH MAXIMUM OPERATING PRESSURES AS SPECIFIED IN THE PROCUREMENT SPECIFICATION.

7. FOR REDUCER CONFIGURATIONS, THE PRESSURE RATING IS DETERMINED BY THE LARGEST PORT.

8. THE NON-REDUCER CONFIGURATION WITHOUT A SUFFIX PART NUMBER CODE IS THE FUNCTIONAL EQUIVALENT OF AN783 AND MS24388 FOR THE CORRESPONDING FORGING SIZE AND IS INTENDED TO BE SUITABLE AS A REPLACEMENT STANDARD.

9. WHEN MACHINING FROM BAR STOCK OR OVERSIZED FORGING, THE CENTER BODY DIMENSIONS SHALL CONFORM TO AS1376, TABLE 11.

/10/ DIMENSIONS "E" AND "F" ARE DETERMINED BY THE FORGING SIZE.

/11/ THE DIMENSIONS IN THE TABLE ARE FOR FINAL MACHINED PARTS. THE FORGING SIZE IS DETERMINED AS THE SIZE NECESSARY TO MAKE THE LARGEST FITTING END.

/12/ THE .125 MINIMUM DIMENSION APPLIES ONLY WHEN "Z" IS SPECIFIED. WHEN "Z" IS NOT SPECIFIED, USE "V" DIMENSION.

	AEROSPACE STANDARD	AS6098™ SHEET 4 OF 5	REV. B
	FITTING, TEE, STANDARD AND REDUCER, BULKHEAD ON RUN, INTERNAL ON SIDE, FLARED, 37° SPHERICAL		