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AS1031

FEDERAL SUPPLY CLASS
4730

RATIONALE

THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

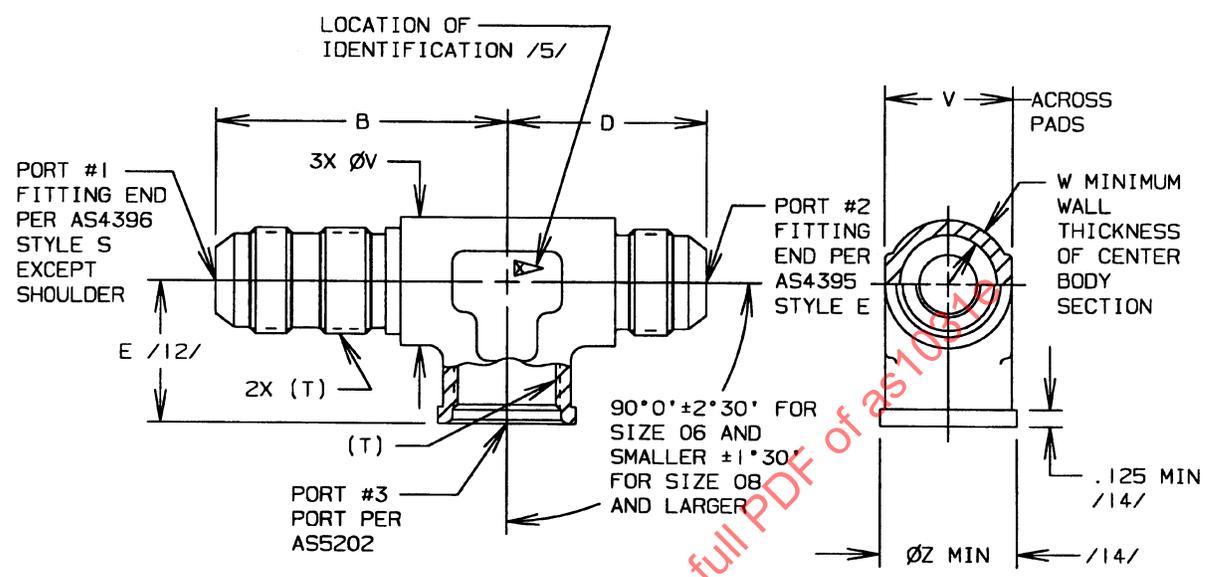


FIGURE 1 - FITTING, TEE, BULKHEAD END FOR OPTIONAL USE IN PORT PORT #3 SHOWN AS NON-REDUCER

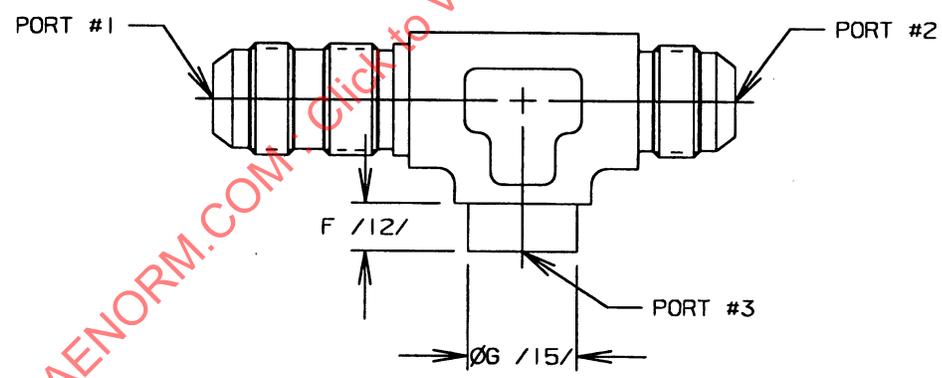
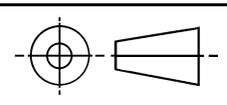


FIGURE 2 - FITTING, TEE, BULKHEAD END FOR OPTIONAL USE IN PORT PORT #3 SHOWN AS REDUCER SAME AS FIGURE 1 EXCEPT AS SHOWN

INACTIVE IN PART - SEE NOTE /24/

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B PROCUREMENT SPECIFICATION: /4/ AS4875/1



AEROSPACE STANDARD
 FITTING, TEE, STANDARD AND REDUCER,
 BULKHEAD ON RUN, INTERNAL PORT ON
 SIDE, FLARED

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ISSUED 1962-08 REVISED 2003-08 REAFFIRMED 2007-07

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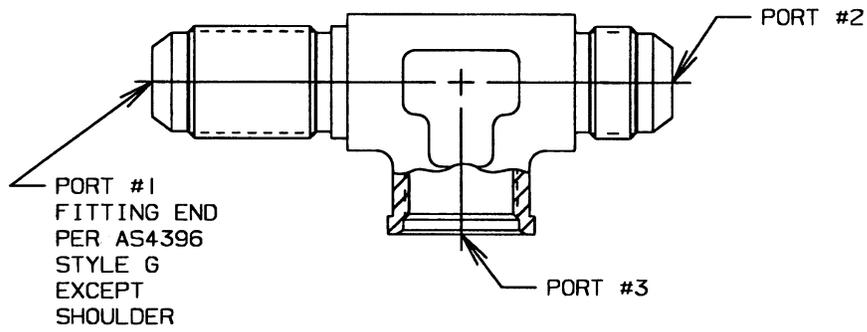


FIGURE 3 - FITTING, TEE, BULKHEAD END NOT FOR USE IN PORT
PORT #3 SHOWN AS NON-REDUCER
SAME AS FIGURE 1 EXCEPT AS SHOWN /23/

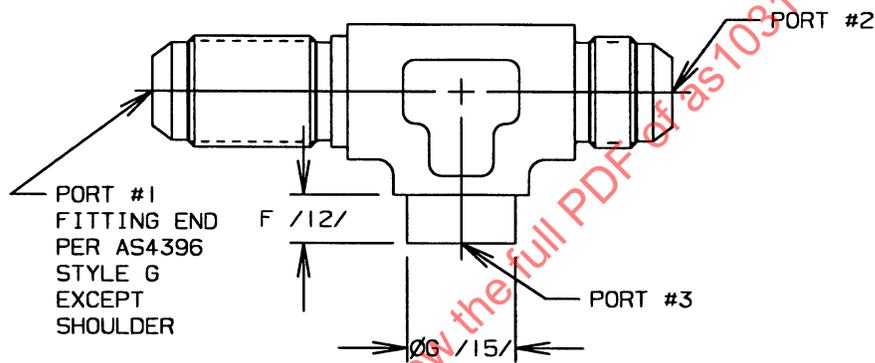


FIGURE 4 - FITTING, TEE, BULKHEAD END NOT FOR USE IN PORT
PORT #3 SHOWN AS REDUCER
SAME AS FIGURE 1 EXCEPT AS SHOWN /23/

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TABLE 1 - DIMENSIONS AND WEIGHTS /16/

BASIC NO. AS1031 /13/ /23/ SIZE CODE	E /12/	F /12/	V	W	Z /14/	LB/EA APPROX REF ALUM	LB/EA APPROX REF CRES	LB/EA APPROX REF TI
02	.648	-	.485- .502	.090	.562	.0348	.0998	.0551
03	.711	-	.547- .565	.100	.625	.0456	.131	.0722
04	.773	.375	.735- .753	.110	-	.0930	.267	.147
05	.773	.375	.735- .753	.120	-	.0895	.257	.142
06	.836	.375	.860- .878	.120	-	.134	.386	.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 /13/	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

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AEROSPACE STANDARD

FITTING, TEE, STANDARD AND REDUCER,
BULKHEAD ON RUN, INTERNAL PORT ON
SIDE, FLARED

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TABLE 3 - LEG LENGTH D

FORGING SIZE /13/ 02	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

TABLE 4 - ØG /15/

FORGING SIZE /13/ 02	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

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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:

/1/ MATERIAL:

- a. DASH AS CODE LETTER - TYPE 4140 STEEL BAR PER AMS 6349 OR AMS 6382 OR TYPE 4130 STEEL FORGING OR BAR PER AMS 6370 OR AMS-S-6758 EXCEPT HEAT TREATMENT PER PROCUREMENT SPECIFICATION.
- b. CODE LETTER D - TYPE 2014-T6 ALUMINUM ALLOY FORGING PER AMS 4133 OR AMS-QQ-A-367; OR 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6, OR 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6. /24/
- c. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS 5639 OR AMS-QQ-S-763 EXCEPT HARDNESS PER PROCUREMENT SPECIFICATION.
- d. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS 5648 OR AMS-QQ-S-763 EXCEPT HARDNESS PER PROCUREMENT SPECIFICATION.
- e. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS 5645 OR AMS-QQ-S-763 EXCEPT HARDNESS PER PROCUREMENT SPECIFICATION.
- f. CODE LETTER T - 6AL-4V TITANIUM ALLOY FORGING OR BAR PER AMS 4928.
- g. CODE LETTER W - 7075-T73 ALUMINUM ALLOY FORGING PER AMS 4141 OR AMS-QQ-A-367, OR 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124; OR 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9.

2. HEAT TREATMENT:

- a. DASH AS CODE LETTER - HARDNESS SHALL BE 92 HRB TO 40 HRC PER PROCUREMENT SPECIFICATION.
- b. OTHER MATERIAL CODES - NONE.

3. FINISH:

- a. DASH AS CODE LETTER - CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 2, DYE BLACK.
- b. MATERIAL CODE LETTER J - PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
- c. MATERIAL CODE LETTER K - PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
- d. MATERIAL CODE LETTER R - PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
- e. MATERIAL CODE LETTER T - FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486 OR ANODIZE PER AMS 2488, TYPE 2.