

FEDERAL SUPPLY CLASS

4730

REV.
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AS1040

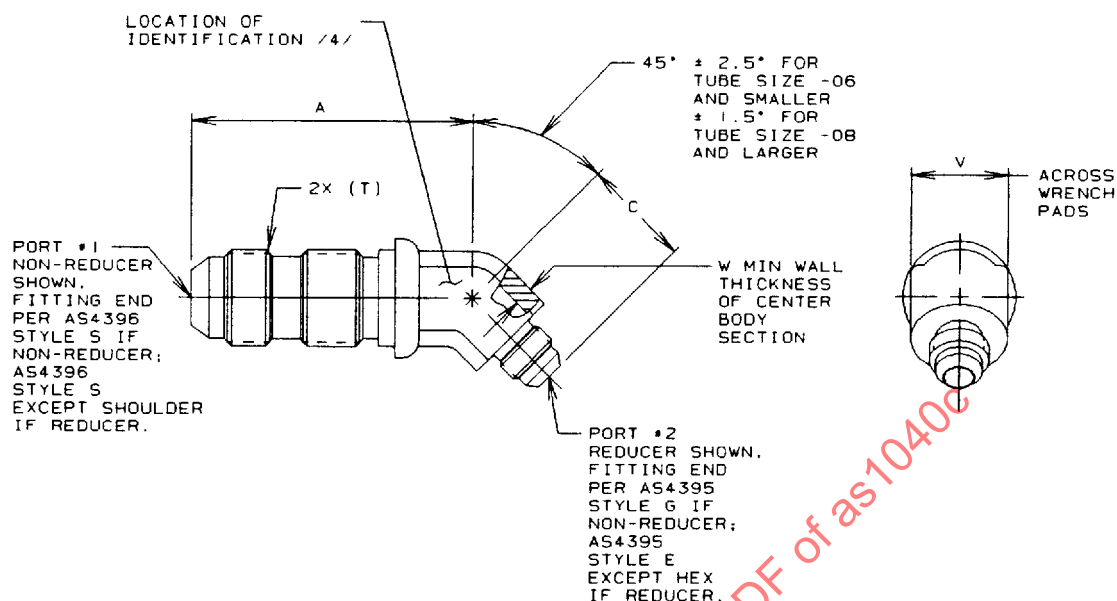
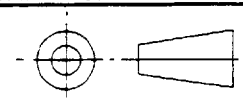


FIGURE 1 - ELBOW, 45°, BULKHEAD

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. AS1040	LB/EA	LB/EA	LB/EA
/8/ /14/	MAX	MAX	MAX
SIZE CODE	ALUM	CRES	TI
02	.312	.090	-
03	.375	.100	-
04	.438	.110	-
05	.500	.120	-
06	.562	.120	-
08	.750	.150	-
10	.875	.170	-
12	1.062	.185	-
16	1.312	.205	-
20	1.625	.240	-
24	1.875	.250	-
32	2.562	.350	-

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: MIL-F-5509

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL

400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARDELBOW, 45°, STANDARD AND REDUCER,
BULKHEAD, FLARED TUBE**AS1040**

SHEET 1 OF 4

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TABLE 2 - LEG LENGTH A

SIZE OF PORT #1	FORGING SIZE /8/ 02	FORGING SIZE /8/ 03	FORGING SIZE /8/ 04	FORGING SIZE /8/ 05	FORGING SIZE /8/ 06	FORGING SIZE /8/ 08	FORGING SIZE /8/ 10	FORGING SIZE /8/ 12	FORGING SIZE /8/ 16	FORGING SIZE /8/ 20	FORGING SIZE /8/ 24	FORGING SIZE /8/ 32
02	1.398	1.398	1.460	1.460	1.523	1.633	1.726	1.821	1.946	1.992	1.992	1.945
03	-	1.398	1.460	1.460	1.523	1.633	1.726	1.821	1.946	1.992	1.992	1.945
04	-	-	1.554	1.557	1.617	1.727	1.820	1.915	2.040	2.086	2.086	2.039
05	-	-	-	1.554	1.617	1.727	1.820	1.915	2.040	2.086	2.086	2.039
06	-	-	-	-	1.695	1.805	1.898	1.993	2.118	2.164	2.164	2.117
08	-	-	-	-	-	1.961	2.054	2.149	2.274	2.320	2.320	2.273
10	-	-	-	-	-	-	2.195	2.290	2.415	2.461	2.461	2.414
12	-	-	-	-	-	-	-	2.461	2.586	2.632	2.632	2.585
16	-	-	-	-	-	-	-	-	2.586	2.632	2.632	2.585
20	-	-	-	-	-	-	-	-	-	2.679	2.679	2.632
24	-	-	-	-	-	-	-	-	-	-	2.695	2.648
32	-	-	-	-	-	-	-	-	-	-	-	2.929

TABLE 3 - LEG LENGTH C

SIZE OF PORT #2	FORGING SIZE /8/ 02	FORGING SIZE /8/ 03	FORGING SIZE /8/ 04	FORGING SIZE /8/ 05	FORGING SIZE /8/ 06	FORGING SIZE /8/ 08	FORGING SIZE /8/ 10	FORGING SIZE /8/ 12	FORGING SIZE /8/ 16	FORGING SIZE /8/ 20	FORGING SIZE /8/ 24	FORGING SIZE /8/ 32
02	.664	.633	.633	.671	.728	.783	.807	.873	1.013	1.091	1.154	1.341
03	-	.664	.655	.702	.759	.814	.838	.904	1.044	1.122	1.185	1.372
04	-	-	.726	.773	.830	.885	.909	.975	1.115	1.193	1.256	1.443
05	-	-	-	.773	.830	.885	.909	.975	1.115	1.193	1.256	1.443
06	-	-	-	-	.836	.891	.915	.981	1.121	1.199	1.262	1.449
08	-	-	-	-	-	.992	1.016	1.082	1.222	1.300	1.363	1.550
10	-	-	-	-	-	-	1.117	1.183	1.323	1.401	1.464	1.651
12	-	-	-	-	-	-	-	1.289	1.429	1.507	1.570	1.757
16	-	-	-	-	-	-	-	-	1.476	1.554	1.617	1.804
20	-	-	-	-	-	-	-	-	-	1.601	1.664	1.851
24	-	-	-	-	-	-	-	-	-	-	1.789	1.976
32	-	-	-	-	-	-	-	-	-	-	-	2.226

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TABLE 4 - TUBE SIZE AND CORRESPONDING THREAD

PORT SIZE	(NOMINAL TUBE SIZE)		T THREAD PER MIL-S-8879
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	
24	1.500	1.8750-12 UNJ	
32	2.000	2.5000-12 UNJ	

NOTES:

/1/ MATERIAL:

- a. NO CODE LETTER - 1137 STEEL FORGING OR BAR PER AMS5024 OR ASTM A 108, OR 4130 STEEL FORGING OR BAR PER AMS 6370 OR MIL-S-6758.
- b. CODE LETTER D - 2014T6 ALUMINUM ALLOY FORGING PER AMS 4133 OR QQ-A-367; OR 2024T6 ALUMINUM ALLOY BAR PER AMS 4112 OR QQ-A-225/6; OR 2024T851 ALUMINUM ALLOY BAR PER QQ-A-225/6.
- c. CODE LETTER J - 30304 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS 5639 OR 304 CORROSION RESISTANT STEEL PER QQ-S-763.
- d. CODE LETTER K - 30316 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS 5648 OR 316 CORROSION RESISTANT STEEL PER QQ-S-763.
- e. CODE LETTER S - 30347 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS 5646 OR 347 CORROSION RESISTANT STEEL PER QQ-S-763.
- f. CODE LETTER T - 6AL4V TITANIUM ALLOY FORGING OR BAR PER AMS 4928.
- g. CODE LETTER W - 7075T73 ALUMINUM FORGING PER AMS 4141 OR QQ-A-367; OR 7075T7351 ALUMINUM ALLOY BAR PER AMS 4124; OR 7075T73 ALUMINUM ALLOY BAR PER QQ-A-225/9.

2. FINISH:

- a. NO MATERIAL CODE LETTER - CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 2, DYE BLACK.
- b. MATERIAL CODE LETTER D - ANODIZE PER AMS 2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BLUE, DUPLEX SEAL.
- c. MATERIAL CODE LETTER J - PASSIVATE PER QQ-P-35, TYPE VI OR VII.
- d. MATERIAL CODE LETTER K - PASSIVATE PER QQ-P-35, TYPE VI OR VII.
- e. MATERIAL CODE LETTER S - PASSIVATE PER QQ-P-35, TYPE VI OR VII.
- f. MATERIAL CODE LETTER T - FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486.
- g. MATERIAL CODE LETTER W - ANODIZE PER AMS 2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL.

/3/ PROCUREMENT SPECIFICATION: MIL-F-5509 EXCEPT AS SPECIFIED ON THIS STANDARD. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.