

AS4233

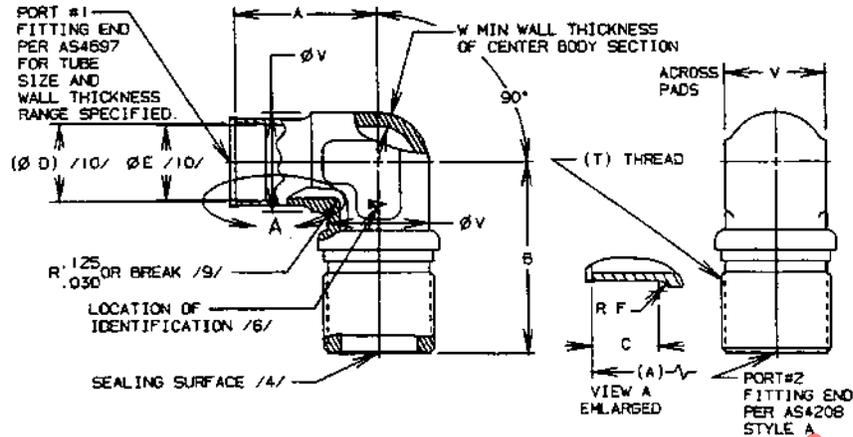
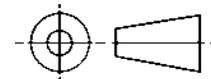


FIGURE 1 - FITTING, ELBOW, 90°, BULKHEAD

TABLE 1A - DIMENSIONS

BASIC NO. AS4233 /16/ SIZE AND TUBE WALL CODES	RANGE OF NOMINAL TUBE WALL FOR PORT #2 /7/ /16/	(NOMINAL TUBE SIZE)	PORT #1 STYLE /10/	T THREAD PER MIL-S-8879 CLASS 3A	A	B	C	D /10/
03-018	.016-.018	.188	A	3750-28 UNJS	.832	1.143	.450	.146
03-022	.019-.022	.188	A	3750-28 UNJS	.832	1.143	.450	.138
04-022	.019-.022	.250	B	4375-24 UNJS	.832	1.225	.420	.200
05-022	.019-.022	.312	B	.5000-24 UNJS	.887	1.261	.460	.262
05-028	.023-.028	.312	B	.5000-24 UNJS	.887	1.261	.460	.250
06-022	.019-.022	.375	B	.5625-20 UNJS	1.005	1.353	.520	.325
06-028	.023-.028	.375	B	.5625-20 UNJS	1.005	1.353	.520	.313
06-032	.029-.032	.375	B	.5625-20 UNJS	1.005	1.353	.520	.305
08-022	.019-.022	.500	B	.7188-20 UNJS	1.180	1.542	.620	.450
08-043	.033-.043	.500	B	.7188-20 UNJS	1.180	1.542	.620	.408
10-028	.023-.028	.625	B	.8438-18 UNJS	1.243	1.769	.580	.563
10-043	.033-.043	.625	B	.8438-18 UNJS	1.243	1.769	.580	.533
10-055	.044-.055	.625	A	.8438-18 UNJS	1.243	1.769	.580	.509
12-028	.023-.028	.750	B	1.0000-16 UNJ	1.392	1.953	.740	.688
12-055	.044-.055	.750	A	1.0000-16 UNJ	1.392	1.953	.740	.634
12-065	.056-.065	.750	A	1.0000-16 UNJ	1.392	1.953	.740	.614
14-032	.029-.032	.875	B	1.1250-16 UNJ	1.562	2.188	.700	.805
14-065	.056-.065	.875	A	1.1250-16 UNJ	1.562	2.188	.700	.739
16-043	.033-.043	1.000	B	1.2500-14 UNJS	1.617	2.188	.750	.908
16-078	.066-.078	1.000	A	1.2500-14 UNJS	1.617	2.188	.750	.838
16-089	.079-.089	1.000	A	1.2500-14 UNJS	1.617	2.188	.750	.816
20-055	.044-.055	1.250	B	1.5781-14 UNJS	1.750	2.326	.670	1.134
20-089	.079-.089	1.250	A	1.5781-14 UNJS	1.750	2.236	.670	1.066
24-055	.044-.055	1.500	B	1.8438-14 UNJS	1.900	2.712	.680	1.384

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /5/ AS4510



AEROSPACE STANDARD

FITTING, ELBOW, 90°, BULKHEAD, EXTERNAL THREAD,
BEAM SEAL TO INTEGRAL WELD RING

AS4233
SHEET 1 OF 3

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TABLE 1B - DIMENSIONS AND WEIGHTS

BASIC NO. AS4233 /16/ SIZE AND TUBE WALL CODES					RECOMMENDED	LB/EA	LB/EA
	E	F	V	W	MAXIMUM PRESSURE PSI /7/	MAX CRES	MAX TI
03-018	—	.080	.360- .377	.055	5000	.0578	.0331
03-022	—	.080	.360- .377	.055	5000	.0578	.0331
04-022	.184- .194	.080	.360- .377	.060	5000	.0689	.0394
05-022	.232- .242	.080	.423- .440	.060	4000	.0910	.0520
05-028	.232- .242	.080	.423- .440	.060	5000	.0910	.0520
06-022	.297- .307	.090	.485- .502	.060	3000	.118	.0673
06-028	.297- .307	.090	.485- .502	.060	4000	.118	.0673
06-032	.297- .307	.090	.485- .502	.060	5000	.118	.0673
08-022	.398- .407	.090	.547- .565	.065	2000	.176	.100
08-043	.398- .407	.090	.547- .565	.065	5000	.176	.100
10-028	.512- .523	.125	.673- .691	.070	2000	.253	.145
10-043	.512- .523	.125	.673- .691	.070	4000	.253	.145
10-055	—	.125	.673- .691	.070	5000	.253	.145
12-028	.649- .660	.125	.860- .878	.095	2000	.389	.222
12-055	—	.125	.860- .878	.095	4000	.389	.222
12-065	—	.125	.860- .878	.095	5000	.389	.222
14-032	.769- .780	.125	1.110-1.128	.105	2000	.676	.374
14-065	—	.125	1.110-1.128	.105	4000	.676	.374
16-043	.862- .874	.125	1.110-1.128	.110	2000	.654	.374
16-078	—	.125	1.110-1.128	.110	4000	.654	.374
16-089	—	.125	1.110-1.128	.110	5000	.654	.374
20-055	1.115-1.128	.180	1.355-1.380	.110	2000	.953	.544
20-089	—	.180	1.355-1.380	.110	4000	.953	.544
24-055	1.324-1.337	.180	1.605-1.630	.130	2000	1.44	.820

NOTES:

- 1/1 MATERIAL:
 - a. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY FORGING OR BAR PER AMS 4965.
 - b. CODE LETTER P - TYPE 17-4PH CORROSION RESISTANT STEEL FORGING OR BAR PER AMS 5643.
 - c. CODE LETTER V - TYPE 15-5PH CORROSION RESISTANT STEEL FORGING OR BAR PER AMS 5659.
2. HEAT TREATMENT:
 - a. MATERIAL CODE LETTER T - NONE.
 - b. MATERIAL CODE LETTERS P AND V - HEAT TREAT TO CONDITION H 1075 PER AMS 2759/3.
3. FINISH: NONE
- 1/4 DRY FILM LUBRICANT: APPLY DRY FILM LUBRICANT PER MIL-L-46010, TYPE I TO THE SEALING SURFACE OF AS4207 FITTING END. OVERSPRAY IN BORE IS NOT PERMITTED.
- 1/5 PROCUREMENT SPECIFICATION: AS4510 EXCEPT AS SPECIFIED ON THIS STANDARD. THIS PART SHALL BE QUALIFIED TO THE PROCUREMENT SPECIFICATION IN A COMPLETE ASSEMBLY. THE AS4208 FITTING END SHALL HAVE BEEN QUALIFIED TO THE APPLICABLE REQUIREMENTS OF MIL-F-85421 OR MIL-F-85720. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.
- 1/6 IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D OR METHOD 7A3, 15A3, OR 15B MANUFACTURER'S IDENTIFICATION, CAGE CODE NUMBER OR TRADEMARK, BASIC NUMBER, MATERIAL CODE LETTER, AND TUBE WALL CODE.
- 1/7 THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURES SHOWN IN TABLE 1 WITH THE RECOMMENDATION THAT THE MINIMUM WALL THICKNESS OF THE TUBING WELDED TO THE AS4697 FITTING END OF PORT #2 BE THE VALUE SHOWN FOR THE APPROPRIATE OPERATING PRESSURE IN ARP4698. THINNER WALL THICKNESSES MAY BE USED.
8. WHEN MACHINED FROM BAR OR OVERSIZED FORGINGS, THE CENTER BODY SECTION SHALL CONFORM TO AS1376, TABLE 4.
- 1/9 RADIUS OR BREAK AT THE CORNER FOR TITANIUM ALLOY ONLY.
- 1/10 IF PORT #1 IS STYLE A, ØD WILL EXTEND THE ID LENGTH AND ØE WILL NOT APPLY.
11. INTERPRETATION OF DRAWING PER ARP4296.