

REV.
C

AS4231

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS4231C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

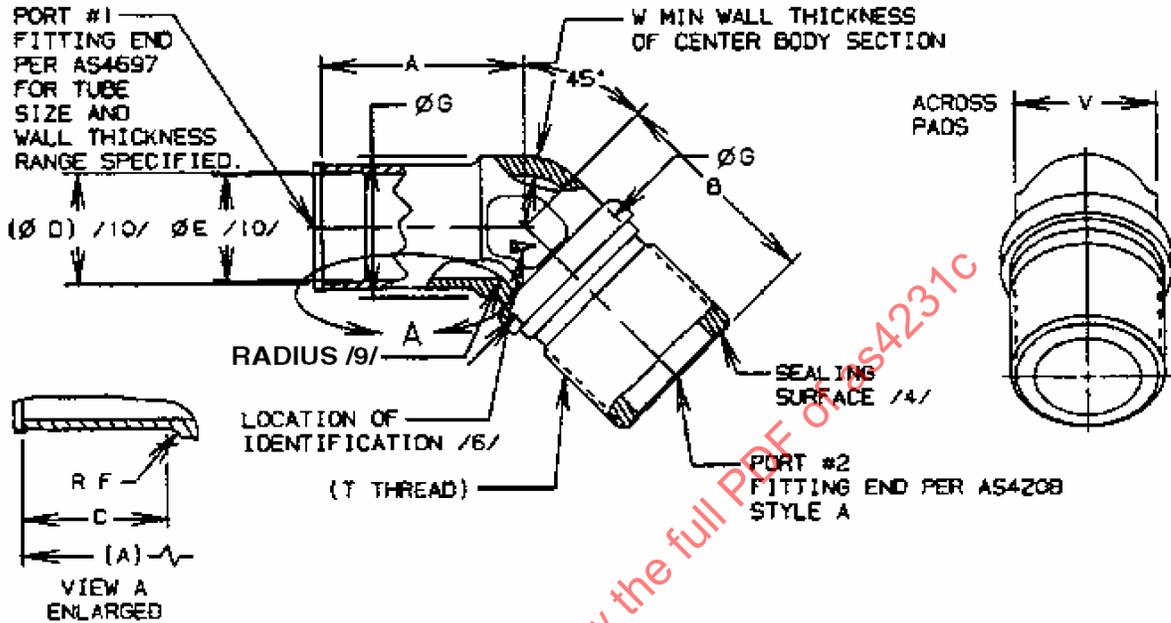
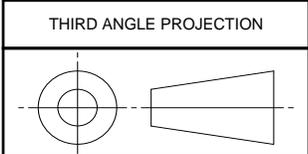


FIGURE 1 - FITTING, ELBOW, 45°, BULKHEAD

SAENORM.COM : Click to view the full PDF of AS4231C

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS4231C>



CUSTODIAN: G-3/G-3B		PROCUREMENT SPECIFICATION: /5/ AS4510	
	AEROSPACE STANDARD		AS4231 SHEET 1 OF 4
	FITTING, ELBOW, 45°, BULKHEAD, EXTERNAL THREAD, BEAM SEAL TO INTEGRAL WELD RING		

ISSUED 1996-05 REVISED 2007-09 REAFFIRMED 2015-04

TABLE 1A - DIMENSIONS

BASIC NO. AS4231 /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 AS8879 CLASS 3A	A	B	C	D /10/
03-018	.016-.018	.188	A	.3750-28 UNJS	.832	.987	.610	.146
03-022	.019-.022	.188	A	.3750-28 UNJS	.832	.987	.610	.138
04-022	.019-.022	.250	B	.4375-24 UNJS	.832	1.028	.680	.200
05-022	.019-.022	.312	B	.5000-24 UNJS	.887	1.046	.650	.262
05-028	.023-.028	.312	B	.5000-24 UNJS	.887	1.046	.650	.250
06-022	.019-.022	.375	B	.5625-20 UNJS	1.005	1.120	.740	.325
06-028	.023-.028	.375	B	.5625-20 UNJS	1.005	1.120	.740	.313
06-032	.029-.032	.375	B	.5625-20 UNJS	1.005	1.120	.740	.305
08-022	.019-.022	.500	B	.7188-20 UNJS	1.180	1.246	.820	.450
08-043	.033-.043	.500	B	.7188-20 UNJS	1.180	1.246	.820	.408
10-028	.023-.028	.625	B	.8438-18 UNJS	1.243	1.433	.880	.563
10-043	.033-.043	.625	B	.8438-18 UNJS	1.243	1.433	.880	.533
10-055	.044-.055	.625	A	.8438-18 UNJS	1.243	1.433	.880	.509
12-028	.023-.028	.750	B	1.0000-16 UNJ	1.392	1.576	.980	.688
12-055	.044-.055	.750	A	1.0000-16 UNJ	1.392	1.576	.980	.634
12-065	.056-.065	.750	A	1.0000-16 UNJ	1.392	1.576	.980	.614
14-032	.029-.032	.875	B	1.1250-16 UNJ	1.562	1.725	1.090	.805
14-065	.056-.065	.875	A	1.1250-16 UNJ	1.562	1.725	1.090	.739
16-043	.033-.043	1.000	B	1.2500-14 UNJS	1.617	1.725	1.150	.908
16-078	.066-.078	1.000	A	1.2500-14 UNJS	1.617	1.725	1.150	.838
16-089	.079-.089	1.000	A	1.2500-14 UNJS	1.617	1.725	1.150	.816
20-055	.044-.055	1.250	B	1.5781-14 UNJS	1.750	1.775	1.170	1.134
20-089	.079-.089	1.250	A	1.5781-14 UNJS	1.750	1.775	1.170	1.066
24-055	.044-.055	1.500	B	1.8438-14 UNJS	1.900	2.027	1.270	1.384

SAENORM.COM : Click to view the full PDF of AS4231

	AEROSPACE STANDARD	AS4231 SHEET 2 OF 4	REV. C
	FITTING, ELBOW, 45°, BULKHEAD, EXTERNAL THREAD, BEAM SEAL TO INTEGRAL WELD RING		

TABLE 1B - DIMENSIONS AND WEIGHTS

BASIC NO. AS4231 /16/ SIZE AND TUBE WALL CODES	E /10/	F ±.005	G MIN	V	W	RECOMMENDED MAXIMUM PRESSURE PSI /7/	LB/EA MAX CRES	LB/EA MAX TI
03-018	--	.080	.285	.360- .377	.055	5000	.0369	.0211
03-022	--	.080	.285	.360- .377	.055	5000	.0369	.0211
04-022	.184- .194	.080	.329	.360- .377	.060	5000	.0461	.0263
05-022	.232- .242	.080	.391	.423- .440	.060	4000	.0630	.0360
05-028	.232- .242	.080	.391	.423- .440	.060	5000	.0630	.0360
06-022	.297- .307	.090	.454	.485- .502	.060	3000	.0790	.0452
06-028	.297- .307	.090	.454	.485- .502	.060	4000	.0790	.0452
06-032	.297- .307	.090	.454	.485- .502	.060	5000	.0790	.0452
08-022	.398- .408	.090	.547	.547- .565	.065	2000	.132	.0753
08-043	.398- .408	.090	.547	.547- .565	.065	5000	.132	.0753
10-028	.512- .523	.125	.673	.673- .691	.070	2000	.188	.107
10-043	.512- .523	.125	.673	.673- .691	.070	4000	.188	.107
10-055	--	.125	.673	.673- .691	.070	5000	.188	.107
12-028	.649- .660	.125	.860	.860- .878	.095	2000	.275	.157
12-055	--	.125	.860	.860- .878	.095	4000	.275	.157
12-065	--	.125	.860	.860- .878	.095	5000	.275	.157
14-032	.769- .780	.125	1.110	1.110-1.128	.105	2000	.425	.243
14-065	--	.125	1.110	1.110-1.128	.105	4000	.425	.243
16-043	.862- .874	.125	1.110	1.110-1.128	.110	2000	.480	.274
16-078	--	.125	1.110	1.110-1.128	.110	4000	.480	.274
16-089	--	.125	1.110	1.110-1.128	.110	5000	.480	.274
20-055	1.115-1.128	.180	1.360	1.355-1.380	.110	2000	.718	.410
20-089	--	.180	1.360	1.355-1.380	.110	4000	.718	.410
24-055	1.324-1.337	.180	1.610	1.605-1.630	.130	2000	1.120	.640

NOTES:

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:

- a. MATERIAL CODE LETTER T - NONE.
- b. MATERIAL CODE LETTER P AND V - PASSIVATE PER AMS 2700.

	AEROSPACE STANDARD		AS4231 SHEET 3 OF 4	REV. C
	FITTING, ELBOW, 45°, BULKHEAD, EXTERNAL THREAD, BEAM SEAL TO INTEGRAL WELD RING			