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AS4233™

FEDERAL SUPPLY CLASS
4730

RATIONALE

1. FIX TYPOS, RETYPE TABLES, REVISE GRAPHICS AND GENERAL UPDATES.
2. REVISE NOTE 5 TO CHANGE PROCUREMENT SPECIFICATION AND TO CLARIFY QPL REQUIREMENTS. FOR THE REDUCED WELD WALL THICKNESS FITTINGS SHOWN IN TABLE 2B (SIZE 03-018, 08-022, ETC...), REFER TO AS4510/2 FOR REDUCED PRESSURE TESTING (LESS THAN AS85421) QUALIFICATION REQUIREMENTS.
3. REVISE TABLE 1 AND 2 TO CLARIFY PROCUREMENT SPECIFICATION, MATERIAL, RECOMMENDED OPERATING PRESSURES AND APPLICABLE SIZE AND TUBE WALL CODES.
4. SIZE 03-018 WAS INCORRECTLY RATED AT 5000 PSI, CHANGE TO 3000 PSI IN BOTH CRES AND TITANIUM TO MATCH PROCUREMENT SPECIFICATION. USERS SHOULD USE SIZE 03-022 FOR 5000 PSI APPLICATIONS.

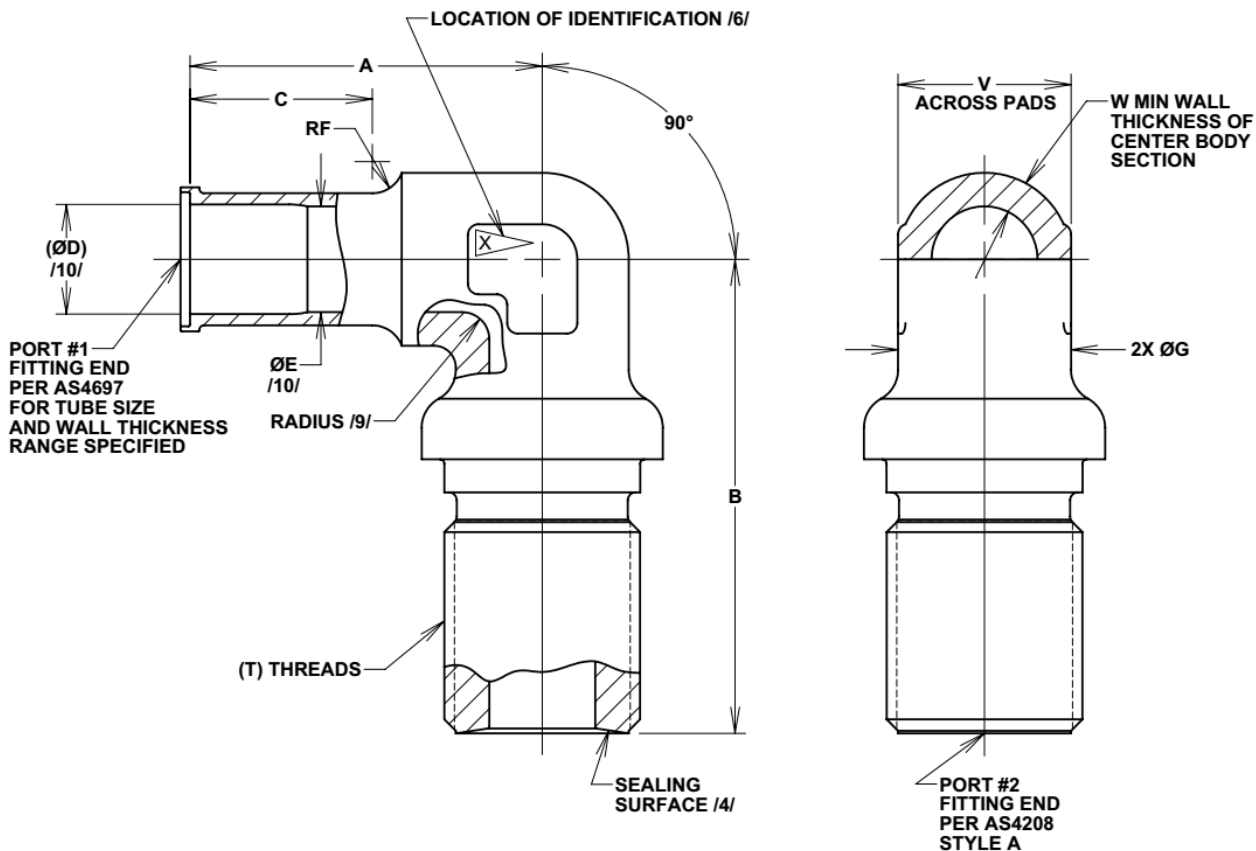
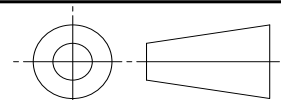


FIGURE 1 - FITTING, ELBOW, 90°, BULKHEAD

SAE values your input. To provide feedback on this Technical Report, please visit <http://standards.sae.org/AS4233D>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS85421 OR AS85720 /5/



AEROSPACE STANDARD

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

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Documents

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. AS4233 /16/ SIZE AND TUBE WALL CODES	(NOM TUBE SIZE)	(T) THREAD PER AS8879 CLASS 3A	PORT #1 STYLE /10/	A	B	C	D	E	F ±.005	G MIN	V	W	LB/EA MAX CRES	LB/EA MAX TI
03-018	.188	.3750-28 UNJS	A	.832	1.143	.450	.146	-	.080	.285	.360- .377	.055	.0578	.0331
03-022	.188	.3750-28 UNJS	A	.832	1.143	.450	.138	-	.080	.285	.360- .377	.055	.0578	.0331
04-022	.250	.4375-24 UNJS	B	.832	1.225	.420	.200	.184- .194	.080	.329	.360- .377	.060	.0689	.0394
05-022	.312	.5000-24 UNJS	B	.887	1.261	.460	.262	.232- .242	.080	.391	.423- .440	.060	.0910	.052
05-028	.312	.5000-24 UNJS	B	.887	1.261	.460	.250	.232- .242	.080	.391	.423- .440	.060	.0910	.052
06-022	.375	.5625-20 UNJS	B	1.005	1.353	.520	.325	.297- .307	.090	.454	.485- .502	.060	.118	.0673
06-028	.375	.5625-20 UNJS	B	1.005	1.353	.520	.313	.297- .307	.090	.454	.485- .502	.060	.118	.0673
06-032	.375	.5625-20 UNJS	B	1.005	1.353	.520	.305	.297- .307	.090	.454	.485- .502	.060	.118	.0673
08-022	.500	.7188-20 UNJS	B	1.180	1.542	.620	.450	.398- .408	.090	.547	.547- .565	.065	.176	.100
08-043	.500	.7188-20 UNJS	B	1.180	1.542	.620	.408	.398- .408	.090	.547	.547- .565	.065	.176	.100
10-028	.625	.8438-18 UNJS	B	1.243	1.769	.580	.563	.512- .523	.125	.673	.673- .691	.070	.253	.145
10-043	.625	.8438-18 UNJS	B	1.243	1.769	.580	.533	.512- .523	.125	.673	.673- .691	.070	.253	.145
10-055	.625	.8438-18 UNJS	A	1.243	1.769	.580	.509	-	.125	.673	.673- .691	.070	.253	.145
12-028	.750	1.0000-16 UNJ	B	1.392	1.953	.740	.688	.649- .660	.125	.860	.860- .878	.095	.389	.222
12-055	.750	1.0000-16 UNJ	A	1.392	1.953	.740	.634	-	.125	.860	.860- .878	.095	.389	.222
12-065	.750	1.0000-16 UNJ	A	1.392	1.953	.740	.614	-	.125	.860	.860- .878	.095	.389	.222
14-032	.875	1.1250-16 UNJ	B	1.562	2.188	.700	.805	.769- .780	.125	1.110	1.110-1.128	.105	.676	.374
14-065	.875	1.1250-16 UNJ	A	1.562	2.188	.700	.739	-	.125	1.110	1.110-1.128	.105	.676	.374
16-043	1.000	1.2500-14 UNJS	B	1.617	2.188	.750	.908	.862- .874	.125	1.110	1.110-1.128	.110	.654	.374
16-078	1.000	1.2500-14 UNJS	A	1.617	2.188	.750	.838	-	.125	1.110	1.110-1.128	.110	.654	.374
16-089	1.000	1.2500-14 UNJS	A	1.617	2.188	.750	.816	-	.125	1.110	1.110-1.128	.110	.654	.374
20-055	1.250	1.5781-14 UNJS	B	1.750	2.326	.670	1.134	1.115-1.128	.180	1.360	1.355-1.380	.110	.953	.544
20-089	1.250	1.5781-14 UNJS	A	1.750	2.326	.670	1.066	-	.180	1.360	1.355-1.380	.110	.953	.544
24-055	1.500	1.8438-14 UNJS	B	1.900	2.712	.680	1.384	1.324-1.337	.180	1.610	1.605-1.630	.130	1.44	.820

TABLE 2 - SIZE AND TUBE WALL CODES, RECOMMENDED MAXIMUM SYSTEM PRESSURE

TABLE 2A - SIZE AND TUBE WALL CODES FOR AS85720, AS4510, AND AS4510/2

BASIC NO. AS4233 /16/ SIZE AND TUBE WALL CODES	RANGE OF NOMINAL TUBE WALL FOR PORT #1 /7/ /16/	RECOMMENDED MAXIMUM SYSTEM PRESSURE (PSI) /5/ /7/	
		TI	CRES
03-022	.019-.022	5000	5000
04-022	.019-.022	5000	5000
05-028	.023-.028	5000	5000
06-032	.029-.032	5000	5000
08-043	.033-.043	5000	5000
10-055	.044-.055	5000	5000
12-065	.056-.065	5000	5000
16-089	.079-.089	5000	5000

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