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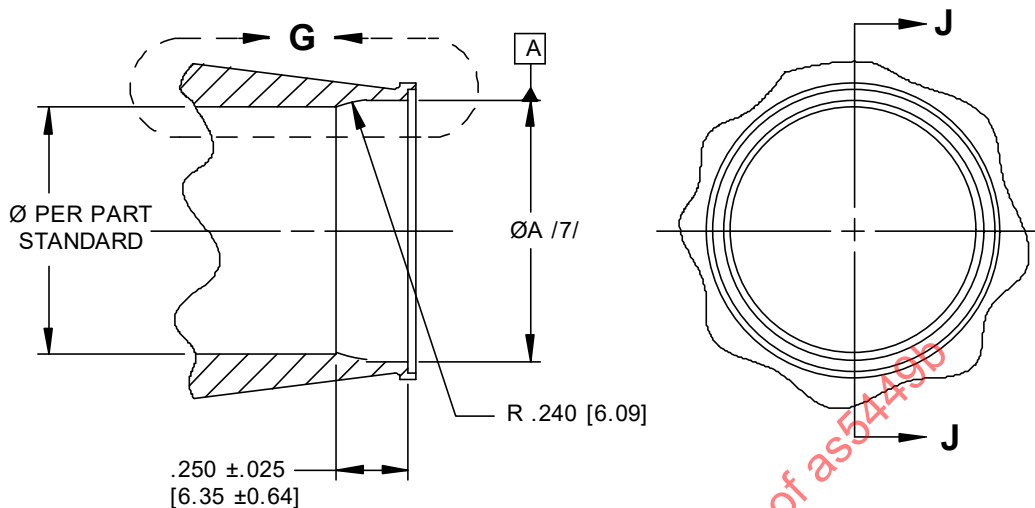
REV.
B

AS5449™

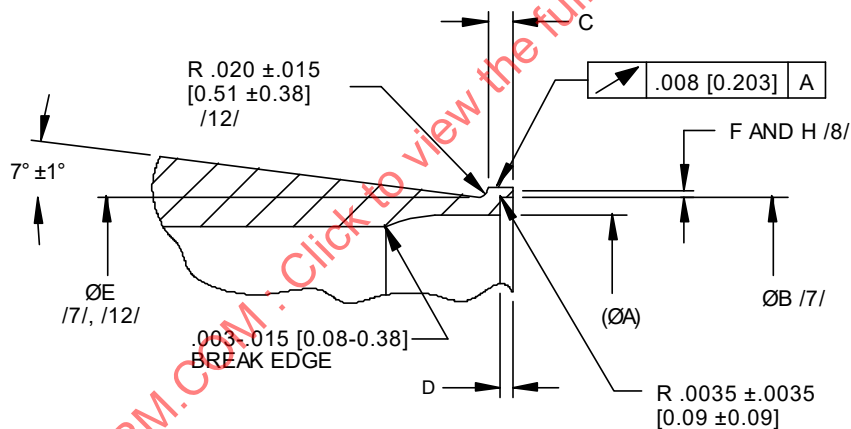
FEDERAL SUPPLY CLASS
4730

RATIONALE

FLAG NOTE /12/ ADDED TO ØE AND OUTER RADIUS DIMENSION IN VIEW G, EXPLAINING THAT ØE IS THE TANGENT POINT OF THE RADIUS LOCATED BY DIM C AND THE 7° TAPER.



SECTION J - J

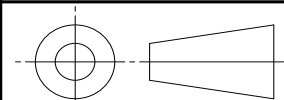


VIEW G ENLARGED

FIGURE 1 - FITTING END, WELD RING

For more information on this standard, visit
<https://www.sae.org/standards/content/AS5449B>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: NONE /1/



AEROSPACE STANDARD

FITTING END, WELD RING,
SHORT TAPERED,
DESIGN STANDARD

AS5449™
SHEET 1 OF 4

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TABLE 1A - DIMENSIONS A-H, ENGLISH UNITS (INCHES)

BASIC NO. AS5449 /9/ SIZE CODE	(NOMINAL TUBE SIZE)	A +.004 -.000	A +.004 -.000	A +.004 -.000	B +.004 -.002	C ±.005	D ±.0025	E	F ±.0015 /8/ /8/	H ±.002 /8/
		NOMINAL TUBE WALL THICKNESS /9/								
		.028	.035	.049						
03	.188	.130	.116	--	.192	.037	.0190	.190-.196	.0165	--
04	.250	.190	.176	--	.252	.037	.0190	.250-.256	.0165	--
05	.312	.252	.238	--	.314	.053	.0260	.312-.318	.0165	--
06	.375	.315	.301	.273	.377	.053	.0260	.375-.381	.0165	.026
08	.500	.440	.426	.398	.502	.053	.0260	.500-.506	.0165	.026
10	.625	.565	.551	.523	.627	.053	.0260	.625-.631	.0165	.026
12	.750	.690	.676	.648	.752	.053	.0260	.75- .76	.0165	.026
16	1.000	.940	.926	.898	1.002	.053	.0260	1.00-1.01	.0165	.026
20	1.250	1.190	1.176	1.148	1.252	.053	.0260	1.25-1.26	.0165	.026
24	1.500	1.440	1.426	1.398	1.502	.053	.0260	1.50-1.51	.0165	.026
28	1.750	1.690	1.676	1.648	1.752	.053	.0260	1.75-1.76	.0165	.026
32	2.000	1.940	1.926	1.898	2.002	.053	.0260	2.00-2.01	.0165	.026
36	2.250	2.190	2.176	2.148	2.252	.053	.0260	2.25-2.26	.0165	.026
40	2.500	2.440	2.426	2.398	2.502	.053	.0260	2.50-2.51	.0165	.026
44	2.750	2.690	2.676	2.654	2.752	.053	.0260	2.75-2.76	.0165	.026
48	3.000	2.940	2.926	2.898	3.002	.053	.0260	3.00-3.01	.0165	.026
52	3.250	3.190	3.176	3.154	3.252	.053	.0260	3.25-3.26	.0165	.026
56	3.500	3.440	3.426	3.398	3.502	.053	.0260	3.50-3.51	.0165	.026
64	4.000	3.940	3.926	3.898	4.002	.053	.0260	4.00-4.01	.0165	.026
72	4.500	4.440	4.426	4.398	4.502	.053	.0260	4.50-4.51	.0165	.026
80	5.000	4.940	4.926	4.898	5.002	.053	.0260	5.00-5.01	.0165	.026
88	5.500	5.440	5.426	5.404	5.502	.053	.0260	5.50-5.51	.0165	.026
96	6.000	5.940	5.926	5.904	6.002	.053	.0260	6.00-6.01	.0165	.026
104	6.500	6.440	6.426	6.404	6.502	.053	.0260	6.50-6.51	.0165	.026
112	7.000	6.940	6.926	6.904	7.002	.053	.0260	7.00-7.01	.0165	.026
120	7.500	7.440	7.426	7.404	7.502	.053	.0260	7.50-7.51	.0165	.026



AEROSPACE STANDARD

FITTING END, WELD RING,
SHORT TAPERED,
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AS5449™
SHEET 2 OF 4

**REV.
B**

TABLE 1B - DIMENSIONS A-H, SI UNITS (MILLIMETERS)

BASIC NO. AS5449 /9/ SIZE CODE	(NOMINAL TUBE SIZE)	A	A	A	B	C	D	E		F	H
		+0.102	+0.102	+0.102							
		0	0	0							
		NOMINAL TUBE WALL THICKNESS /9/									
		.028	.035	.049	+0.102	+0.127	+0.063			±0.03	±0.051
		[0.711]	[0.889]	[1.245]	- 0.051	- 0.127	-0.063			/8/	/8/
03	4.775	3.302	2.946	--	4.877	0.940	0.483	4.826-	4.978	0.419	--
04	6.350	4.826	4.470	--	6.401	0.940	0.483	6.350-	6.502	0.419	--
05	7.925	6.401	6.045	--	7.976	1.346	0.660	7.925-	8.077	0.419	--
06	9.525	8.001	7.645	6.934	9.576	1.346	0.660	9.525-	9.677	0.419	0.66
08	12.700	11.176	10.820	10.109	12.751	1.346	0.660	12.700-	12.852	0.419	0.66
10	15.875	14.351	13.995	13.284	15.926	1.346	0.660	15.875-	16.027	0.419	0.66
12	19.050	17.526	17.170	16.459	19.101	1.346	0.660	19.05-	19.30	0.419	0.66
16	25.400	23.876	23.520	22.809	25.451	1.346	0.660	25.40-	25.65	0.419	0.66
20	31.750	30.226	29.870	29.159	31.801	1.346	0.660	31.75-	32.00	0.419	0.66
24	38.100	36.576	36.220	35.509	38.151	1.346	0.660	38.10-	38.35	0.419	0.66
28	44.450	42.926	42.570	41.859	44.501	1.346	0.660	44.45-	44.70	0.419	0.66
32	50.800	49.276	48.920	48.209	50.851	1.346	0.660	50.80-	51.05	0.419	0.66
36	57.150	55.626	55.270	54.559	57.201	1.346	0.660	57.15-	57.40	0.419	0.66
40	63.500	61.976	61.620	60.909	63.551	1.346	0.660	63.50-	63.74	0.419	0.66
44	69.850	68.326	67.970	67.412	69.901	1.346	0.660	69.85-	70.10	0.419	0.66
48	76.200	74.676	74.320	73.609	76.251	1.346	0.660	76.20-	76.45	0.419	0.66
52	82.550	81.026	80.670	80.112	82.601	1.346	0.660	82.55-	82.80	0.419	0.66
56	88.900	87.376	87.020	86.309	88.951	1.346	0.660	88.90-	89.15	0.419	0.66
64	101.600	100.076	99.720	99.009	101.651	1.346	0.660	101.60-	101.85	0.419	0.66
72	114.300	112.776	112.420	111.709	114.351	1.346	0.660	114.30-	114.55	0.419	0.66
80	127.000	125.476	125.120	124.409	127.051	1.346	0.660	127.00-	127.25	0.419	0.66
88	139.700	138.176	137.820	137.262	139.751	1.346	0.660	139.70-	139.95	0.419	0.66
96	152.400	150.876	150.520	149.962	152.451	1.346	0.660	152.40-	152.65	0.419	0.66
104	165.100	163.576	163.220	162.662	165.151	1.346	0.660	165.10-	165.35	0.419	0.66
112	177.800	176.276	175.920	175.362	177.851	1.346	0.660	177.80-	178.05	0.419	0.66
120	190.500	188.976	188.620	188.062	190.551	1.346	0.660	190.50-	190.75	0.419	0.66

NOTES:

- /1/ THIS FITTING END IS INTENDED FOR USE WITH THE SHORTER FLARE TYPE FITTINGS IN ACCORDANCE WITH AS4841 OR FLANGE FITTINGS IN ACCORDANCE WITH MS33786. THE INTENDED FITTING MATERIALS ARE CORROSION RESISTANT STEEL, NICKEL ALLOY, OR TITANIUM ALLOY. THIS FITTING END MAY BE USED FOR VARIOUS PRESSURE AND TEMPERATURE RANGES DEPENDING ON THE MATERIAL, WALL THICKNESS, AND DIAMETER SPECIFIED. THE INTENT IS TO ENHANCE TUBE WELD CAPABILITY AND INSPECTION BY MATCHING THE FITTING WALL THICKNESS TO TUBE STANDARD MILL STOCK THICKNESSES. THE QUALIFICATION AND PERFORMANCE REQUIREMENTS WILL BE SPECIFIED ON THE INDIVIDUAL PART STANDARD, WHEN APPLICABLE.
2. INTERPRETATION OF DRAWING PER AS4296.
3. SURFACE TEXTURE. SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 MICROINCHES Ra [3.2 MICROMETERS Ra].
4. BREAK EDGES .003 [0.076], UNLESS OTHERWISE SPECIFIED.
5. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.
6. DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ±.02 [0.51], ANGULAR DIMENSIONS ±0°30'.

	AEROSPACE STANDARD	AS5449™ SHEET 3 OF 4	REV. B
	FITTING END, WELD RING, SHORT TAPERED, DESIGN STANDARD		