

RATIONALE

AS5131 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

AS5131

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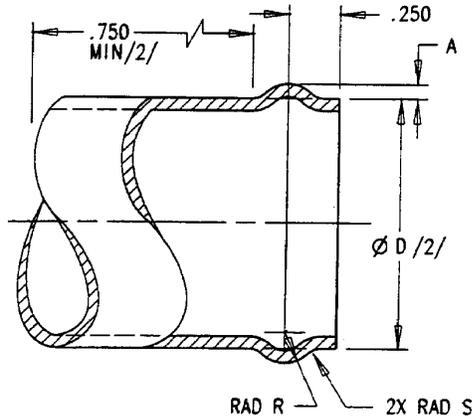


FIGURE 1 - TUBING END - STYLE A

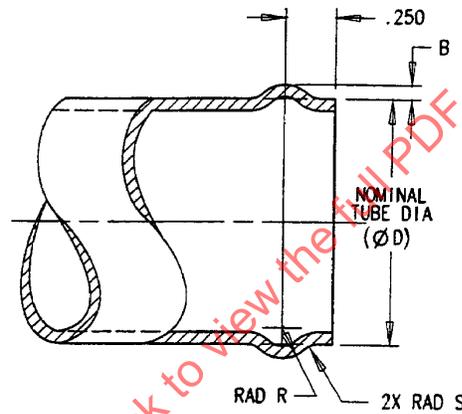


FIGURE 2 - TUBING END - STYLE B

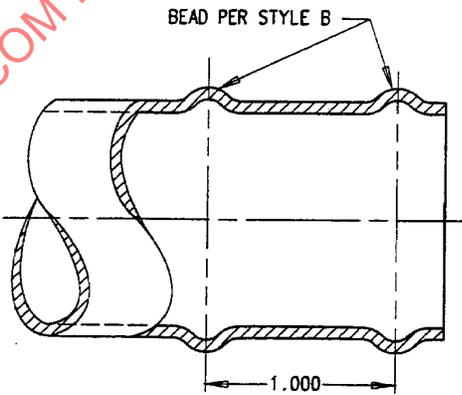
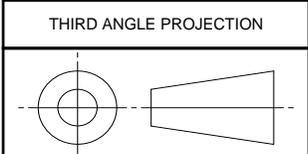


FIGURE 3 - TUBING END - STYLE C

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CUSTODIAN: G-3

PROCUREMENT SPECIFICATION: NONE /1/



**AEROSPACE STANDARD**

TUBE END - BEADED,  
DESIGN STANDARD

**AS5131**  
SHEET 1 OF 3

TABLE 1 - DIMENSIONS

BASIC NO. AS5131 SIZE CODE /8/ /9/	D /2/ (NOMINAL TUBE SIZE)	D /2/ TOLERANCES FOR STYLE A END	A ±.003	B	R	S
04	.250	+ .003/- .010	.031	.023 - .033	.031 - .125	.010 - .062
05	.313	+ .003/- .010	.033	.023 - .033	.031 - .125	.010 - .062
06	.375	+ .003/- .010	.035	.025 - .035	.031 - .125	.010 - .062
08	.500	+ .003/- .010	.038	.028 - .038	.031 - .125	.010 - .062
10	.625	+ .003/- .010	.038	.028 - .038	.031 - .125	.010 - .062
12	.750	+ .004/- .010	.038	.030 - .040	.031 - .125	.010 - .062
16	1.000	+ .005/- .010	.062	.047 - .059	.062 - .156	.015 - .093
20	1.250	+ .005/- .010	.062	.047 - .059	.062 - .156	.015 - .093
24	1.500	+ .005/- .010	.072	.056 - .068	.062 - .156	.015 - .093
28	1.750	+ .005/- .010	.072	.056 - .068	.062 - .156	.015 - .093
32	2.000	+ .005/- .010	.082	.065 - .081	.062 - .156	.015 - .093
36	2.250	+ .006/- .010	.082	.065 - .081	.062 - .156	.015 - .093
40	2.500	+ .006/- .010	.082	.065 - .081	.062 - .156	.015 - .093
44	2.750	+ .006/- .010	.082	.065 - .081	.062 - .156	.015 - .093
48	3.000	+ .006/- .010	.082	.065 - .081	.062 - .156	.015 - .093
52	3.250	+ .006/- .010	.088	.067 - .087	.062 - .156	.015 - .093
56	3.500	+ .008/- .010	.088	.067 - .087	.062 - .156	.015 - .093
60	3.750	+ .008/- .010	.088	.067 - .087	.062 - .156	.015 - .093
64	4.000	+ .008/- .010	.088	.067 - .087	.062 - .156	.015 - .093
68	4.250	+ .008/- .010	.088	.067 - .087	.062 - .156	.015 - .093
72	4.500	+ .008/- .010	.088	.067 - .087	.062 - .156	.015 - .093
76	4.750	+ .008/- .010	.088	.067 - .087	.062 - .156	.015 - .093
80	5.000	+ .008/- .010	.088	.067 - .087	.062 - .156	.015 - .093
84	5.250	+ .008/- .010	.088	.067 - .087	.062 - .156	.015 - .093
88	5.500	±.010	.088	.067 - .087	.062 - .156	.015 - .093
92	5.750	±.010	.088	.067 - .087	.062 - .156	.015 - .093
96	6.000	±.010	.088	.067 - .087	.062 - .156	.015 - .093

## NOTES:

- 1/1 TUBE ENDS PER STYLE A ARE INTENDED FOR USE WITH MIL-C-25014 AND MIL-C-85061 TYPE FLEXIBLE COUPLINGS. TUBE ENDS PER STYLE B ARE INTENDED FOR USE WITH HOSE AND HOSE CLAMP APPLICATIONS. TUBE ENDS PER STYLE C ARE INTENDED FOR USE WITH HOSE AND HOSE CLAMP APPLICATIONS WHERE EXTRA TUBE RIGIDITY IS REQUIRED.
- 1/2 TUBE OD FOR STYLE A END, AFTER BEADING, SHALL BE CONTROLLED FOR SPECIFIED DISTANCE WITHIN SPECIFIED TOLERANCES.
3. INTERPRETATION OF DRAWING PER ARP4296.
4. SURFACE TEXTURE: SYMBOLS PER ANSI Y14.36; REQUIREMENTS PER ANSI/ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 µin Ra.
5. REMOVE BURRS AND SHARP EDGES.
6. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994
7. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ±.030.
- 1/8/ TUBE DIAMETERS IN EXCESS OF 6 in SHALL BE CODED BY SUFFIXING THE NOMINAL TUBE OD IN SIXTEENTHS OF AN INCH TO THE BASIC DESIGN STANDARD NUMBER. DIMENSIONS FOR THESE SIZES SHALL BE THE SAME AS AS5131-96. EXAMPLE OF PART NUMBER: AS5131-184 = TUBE BEAD FOR 11.50 OD TUBE.

	<b>AEROSPACE STANDARD</b>		<b>AS5131</b> SHEET 2 OF 3
	TUBE END - BEADED, DESIGN STANDARD		