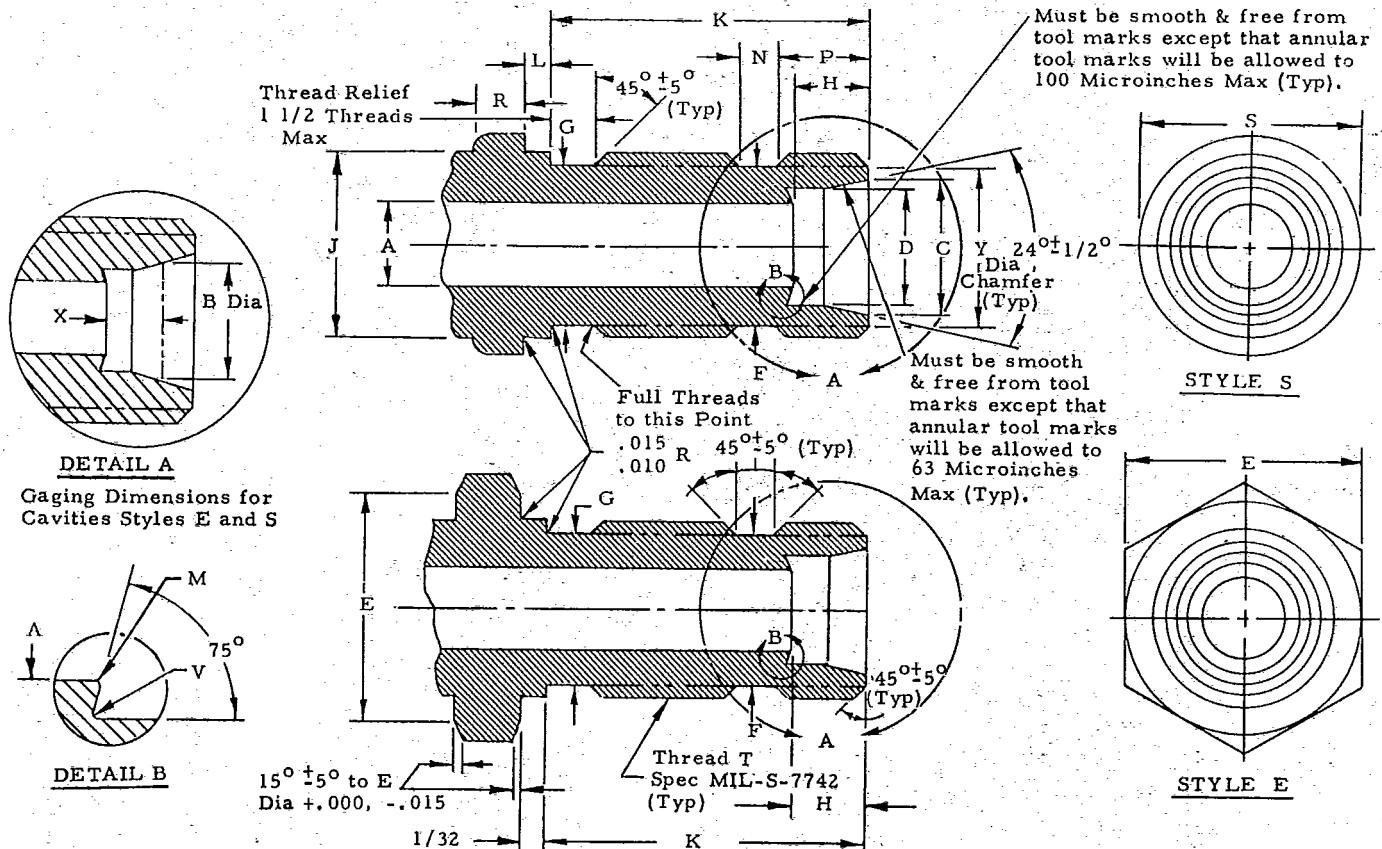


NATIONAL AIRCRAFT STANDARDS COMMITTEE

AIRCRAFT INDUSTRIES ASSOCIATION OF AMERICA, INC. 610 SHOREHAM BUILDING, WASHINGTON 5, D. C.



APPROVED CALLOUT (b)	Tube OD	Thread T	A ±.003	C Ref	D +.004 -.000	E	F (a) +.000 -.003	G +.000 -.005	H +.015 -.005	J Max Min
NAS1215()2	1/8	5/16-24 UNF-3A	.093	.189	.135	.563	.250	.245	.188	.3125 .3053
NAS1215()3	3/16	3/8-24 UNF-3A	.125	.267	.196	.625	.312	.307	.234	.3750 .3678
NAS1215()4	1/4	7/16-20 UNF-3A	.187	.319	.261	.688	.364	.359	.234	.4375 .4294
NAS1215()5	5/16	1/2-20 UNF-3A	.234	.382	.324	.750	.426	.421	.250	.5000 .4919
NAS1215()6	3/8	9/16-18 UNF-3A	.297	.441	.386	.813	.481	.476	.250	.5625 .5538
NAS1215()8	1/2	3/4-16 UNF-3A	.422	.601	.514	1.000	.660	.654	.305	.7500 .7406
NAS1215()10	5/8	7/8-14 UNF-3A	.500	.727	.641	1.125	.773	.767	.350	.8750 .8647
NAS1215()12	3/4	1 1/16-12 UN-3A	.656	.852	.766	1.375	.945	.938	.350	1.0625 1.0511
NAS1215()16	1	1 5/16-12 UN-3A	.875	1.102	1.016	1.625	1.195	1.188	.415	1.3125 1.3011
NAS1215()20	1 1/4	1 5/8-12 N-3A	1.093	1.355	1.270	1.875	1.507	1.501	.415	1.6250 1.6136

APPROVED CALLOUT (b)	K	L	N +.010 -.000	P ±.005	R ±.030	S Dia ±.031	V Rad Max Min	W	M Rad Max	Y ±.010	B ±.000 Basic	X ±.005
NAS1215()2	.125	.094	.125	.290	.11	.438	.010 .005	.005	.005	.250	.163	.128
NAS1215()3	.1875	.094	.131	.340	.11	.500	.010 .005	.005	.005	.310	.234	.158
NAS1215()4	.234	.094	.140	.355	.12	.562	.010 .005	.005	.005	.365	.293	.174
NAS1215()5	.297	.094	.140	.355	.12	.625	.010 .005	.005	.005	.425	.356	.190
NAS1215()6	.382	.094	.156	.365	.14	.688	.010 .005	.005	.005	.480	.416	.193
NAS1215()8	.500	.094	.187	.445	.16	.875	.010 .005	.005	.005	.660	.560	.210
NAS1215()10	.641	.094	.219	.495	.17	1.000	.010 .005	.005	.005	.775	.686	.255
NAS1215()12	.813	.094	.234	.545	.19	1.187	.010 .005	.005	.005	.945	.810	.253
NAS1215()16	1.016	.094	.234	.545	.19	1.438	.010 .005	.005	.005	1.195	1.062	.322
NAS1215()20	1.270	.094	.234	.545	.19	1.750	.025 .020	.008	.015	1.505	1.316	.325

① INACTIVE FOR DESIGN AFTER 2/15/58 SEE DRAWING MS 33515

FOR DEFINITION OF DRAWING STATUS NOTES SEE NAS 380.

- (a) GROOVE SHALL BE SMOOTH AND FREE OF ALL THREAD MARKS, TOLERANCE ON DIMENSION F MAY BE ±.002 PROVIDED NO THREAD MARKS ARE PRESENT.
- (b) ADD "E" IN PLACE OF BRACKETS FOR STYLE "E". ADD "S" IN PLACE OF BRACKETS FOR STYLE "S".

TITLE

FITTING END - STANDARD DIMENSIONS FOR
BULKHEAD FLARELESS TUBE CONNECTIONSCLASSIFICATION
DESIGN STANDARD

NAS 1215 Documents

SPEC

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APPROVAL DATE January 1957 REVISION ① 15 Feb. 1958

NATIONAL AIRCRAFT STANDARDS COMMITTEE

AIRCRAFT INDUSTRIES ASSOCIATION OF AMERICA, INC., 610 SHOREHAM BUILDING, WASHINGTON 5, D. C.

CONCENTRICITY: C, D AND T (PITCH DIAMETER) SHALL BE CONCENTRIC TO EACH OTHER WITHIN .008 TOTAL INDICATOR READING.
F AND T (PITCH DIAMETER) SHALL BE CONCENTRIC TO EACH OTHER WITHIN .005 TOTAL INDICATOR READING.

IDENTIFICATION: PARTS CONTROLLED BY THIS DESIGN STANDARD SHALL BE MARKED WITH A SQUARE. THE SQUARE SHALL APPEAR ON THE SAME AREA AS THE PART NUMBER OR MANUFACTURER'S NAME OR TRADE-MARK AND SHALL BE APPROXIMATELY THE SAME SIZE AS THE CHARACTERS IN THE PART NUMBER. ON ALL MS FLARELESS TUBE FITTINGS THE SQUARE SHALL BE APPLIED BY EMBOSSING, IMPRESSION STAMPING, OR INK STAMPING. ALL OTHER COMPONENTS AFFECTED SHALL BE MARKED BY A METHOD WHICH IS PERMITTED BY THE APPLICABLE PART SPECIFICATION OR DRAWING.

- NOTES:**
1. SQUARENESS BETWEEN THREADS AND FACE OF HEX SHALL NOT EXCEED W WHEN MEASURED AT DIAMETER E.
 2. L AS LISTED PROVIDES FOR A WASHER TO FORM BACKING FACE AGAINST BULKHEAD PLUS 1/32 LAND FOR POSITIONING IN BULKHEAD; WHEN DESIGN OF FITTING INCLUDES A HEX OR FACE EQUAL TO OR GREATER THAN E NO WASHER IS REQUIRED AND THIS DIMENSION WILL BE 1/32.
 3. REMOVE ALL BURRS AND SHARP EDGES.
 4. THIS STANDARD IDENTICAL WITH MS33515 REV. (D) EXCEPT FOR ADDITIONAL CONTROLS ESTABLISHED BY DIMENSIONS B AND X.

TOLERANCES: UNLESS OTHERWISE SPECIFIED, DECIMALS $\pm .016$, ANGLES $\pm 1/2^\circ$.

① INACTIVE FOR DESIGN AFTER 2/15/58 SEE DRAWING MS33515
FOR DEFINITION OF DRAWING STATUS NOTES SEE NAS 380.

APPROVAL DATE January 1957 REVISION ① 15 Feb. 1958

TITLE
FITTING END - STANDARD DIMENSIONS FOR
BULKHEAD FLARELESS TUBE CONNECTIONS

CLASSIFICATION
DESIGN STANDARD

NAS 1215
SHEET 2

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