

RATIONALE

FEDERAL SUPPLY CLASS
4730

REDRAW GRAPHICS AND TABLES FOR BETTER LEGIBILITY. CORNER RADII DIMENSION INCREASED IN GRAPHICS. DIMENSION M ADDED TO GRAPHICS AND TABLE 2 TO COINCIDE WITH AS4396. GENERAL UPDATES INCORPORATED TO LATEST PRACTICE.

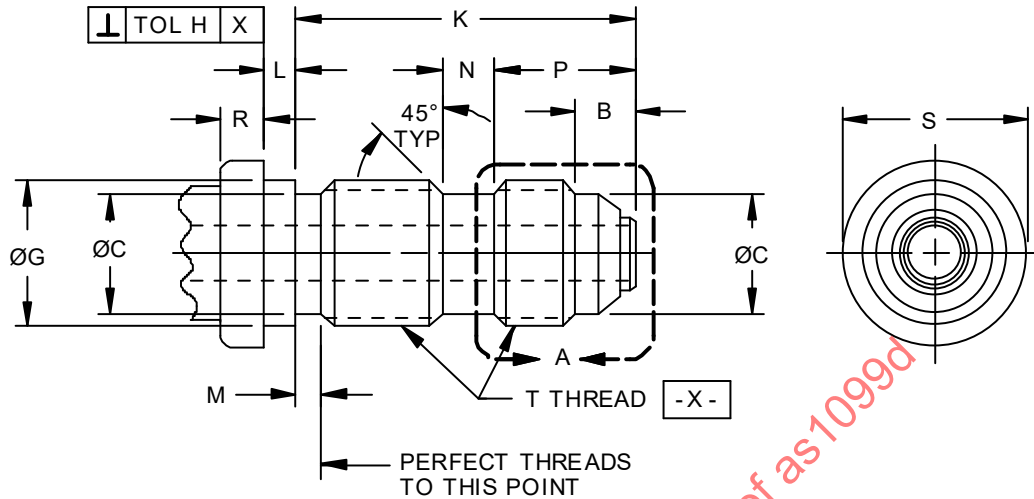


FIGURE 1 - FITTING END, STYLE S, BULKHEAD FLARED TUBE, FOR SEAL RING

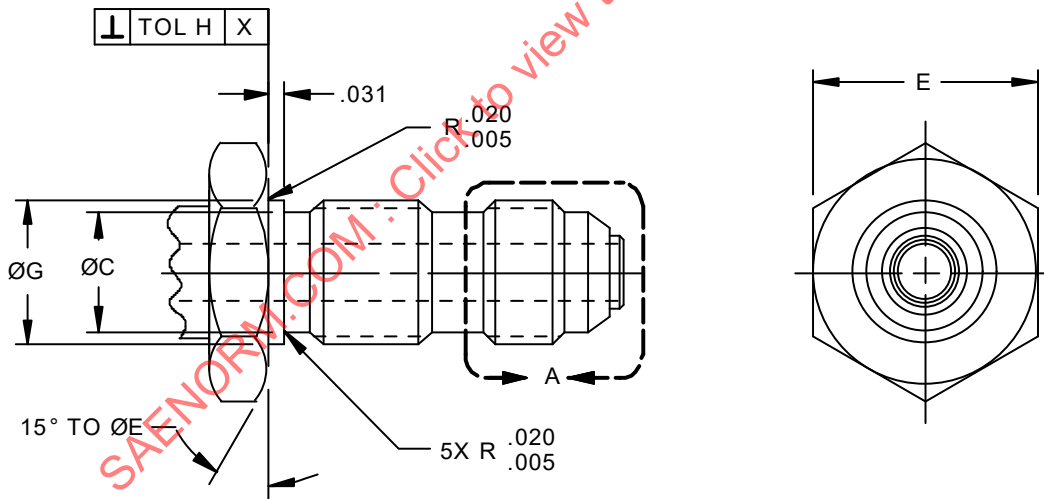
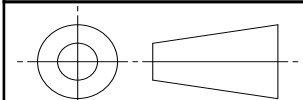


FIGURE 2 - FITTING END, STYLE E, BULKHEAD FLARED TUBE, FOR SEAL RING

For more information on this standard, visit
<https://www.sae.org/standards/content/AS1099D/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION:



AEROSPACE STANDARD

FITTING END, BULKHEAD FLARED TUBE,
FOR SEAL RING, STANDARD DIMENSIONS FOR,
DESIGN STANDARD

AS1099™
SHEET 1 OF 4

REV.
D

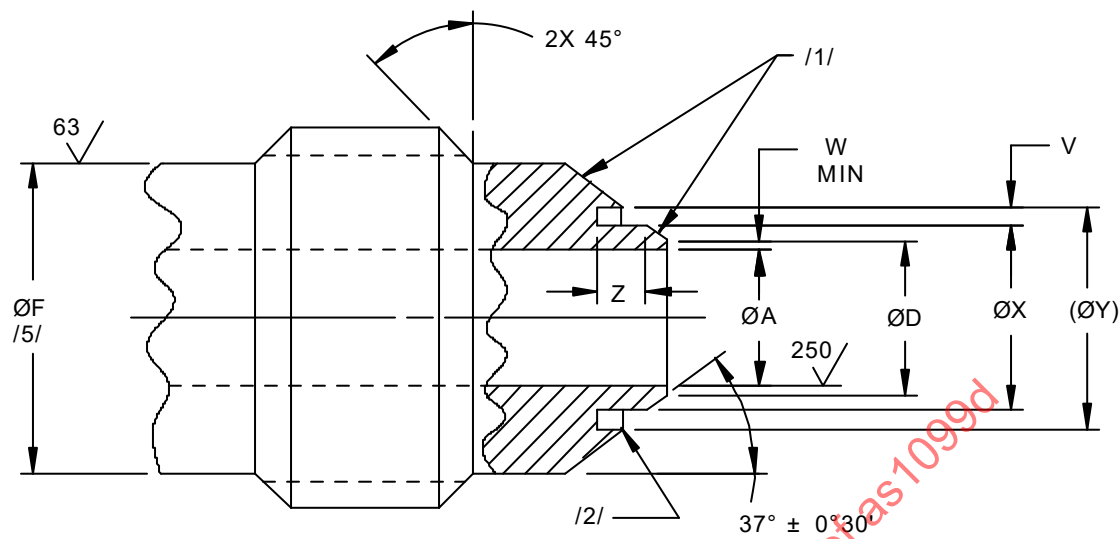


FIGURE 3 - ENLARGED VIEW A FROM FIGURES 1 AND 2

TABLE 1 - DIMENSIONS A-F

BASIC NUMBER AS1099 /13/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3A	A	B +.000 -.045	C +.000 -.005	D ±.003	E	F +.002 -.003
04	.250	.4375-20UNJF	.168- .175	.208	.359	.193	.684- .691	.364
06	.375	.5625-18UNJF	.293- .301	.213	.476	.318	.809- .816	.481
08	.500	.7500-16UNJF	.387- .395	.268	.654	.426	.996-1.003	.660
10	.625	.8750-14UNJF	.480- .488	.281	.767	.539	1.121-1.128	.773
12	.750	1.0625-12UNJ	.604- .614	.330	.938	.664	1.371-1.378	.945
16	1.000	1.3125-12UNJ	.839- .851	.330	1.188	.913	1.609-1.641	1.195
20	1.250	1.6250-12UNJ	1.073-1.086	.382	1.501	1.147	1.859-1.891	1.507
24	1.500	1.8750-12UNJ	1.307-1.320	.393	1.750	1.381	2.105-2.145	1.756
28	1.750	2.2500-12UNJ	1.542-1.557	.466	2.125	1.646	2.480-2.520	2.131
32	2.000	2.5000-12UNJ	1.776-1.791	.476	2.375	1.880	2.730-2.770	2.381



AEROSPACE STANDARD
FITTING END, BULKHEAD FLARED TUBE,
FOR SEAL RING, STANDARD DIMENSIONS FOR,
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TABLE 2 - DIMENSIONS G-S

BASIC NUMBER AS1099 /13/ SIZE CODE	G	H	K +.000 -.045	L	M +.015 -.000	N +.010 -.000	P +.000 -.045	R	S
04	.429-.438	.005	1.026	.094	.075	.140	.448	.125	.562
06	.554-.562	.005	1.104	.094	.083	.156	.481	.141	.688
08	.741-.750	.005	1.260	.125	.094	.187	.570	.156	.875
10	.865-.875	.005	1.401	.125	.107	.219	.628	.172	1.000
12	1.051-1.062	.008	1.572	.125	.125	.234	.737	.188	1.188
16	1.301-1.312	.008	1.572	.125	.125	.234	.737	.188	1.438
20	1.614-1.625	.008	1.619	.125	.125	.234	.789	.188	1.750
24	1.864-1.875	.008	1.635	.125	.125	.234	.800	.188	2.000
28	2.239-2.250	.008	1.791	.125	.125	.234	.873	.188	2.375
32	2.489-2.500	.008	1.916	.125	.125	.234	.883	.188	2.625

TABLE 3 - DIMENSIONS V-Z

BASIC NUMBER AS1099 /13/ SIZE CODE	V +.0015 -.0010	W	X ±.002	Y	Z ±.0010
04	.0200	.0075	.220	.261	.0533
06	.0320	.0070	.336	.401	.0683
08	.0320	.0140	.450	.515	.0683
10	.0320	.0240	.560	.625	.0683
12	.0320	.0230	.685	.750	.0683
16	.0320	.0290	.968	1.033	.0683
20	.0400	.0290	1.200	1.281	.0710
24	.0400	.0290	1.450	1.531	.0710
28	.0500	.0440	1.690	1.790	.0900
32	.0500	.0440	1.940	2.040	.0900

NOTES:

- /1/ THIS SURFACE SHALL BE FREE OF BURRS, LONGITUDINAL AND SPIRAL TOOL MARKS AND SHALL BE SMOOTH EXCEPT THAT ANNULAR TOOL MARKS WILL BE ALLOWED TO 64 MICROINCHES Ra MAXIMUM.
- /2/ LEAVE GROOVE CORNERS AND EDGES .005 MAXIMUM RADIUS. FINISH GROOVE TO 64 MICROINCHES Ra MAXIMUM.
3. DIMENSIONS C, D, F, AND X SHALL BE CONCENTRIC WITH EACH OTHER AND WITH ALL THE ELEMENTS OF THE 37° ANGLE CONICAL SURFACE MEASURED AND CALCULATED AS INCLUDED ANGLES WITHIN .005 FIM.
4. T (THREAD PITCH DIAMETER) SHALL BE CONCENTRIC TO DIMENSION C WITHIN .005 FIM.
- /5/ GROOVE FORMED SHALL BE SMOOTH AND FREE OF ALL THREAD MARKS.
6. INTERPRETATION OF DRAWING PER AS4296.
7. INVENTORIED PARTS WITH FITTING ENDS CONFORMING TO THE PREVIOUS A REVISION OF THIS STANDARD MAY BE USED TO DEPLETION.
8. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 100 MICROINCHES Ra.



AEROSPACE STANDARD

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DESIGN STANDARD

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