

REV.
A

AS4396

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."
SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

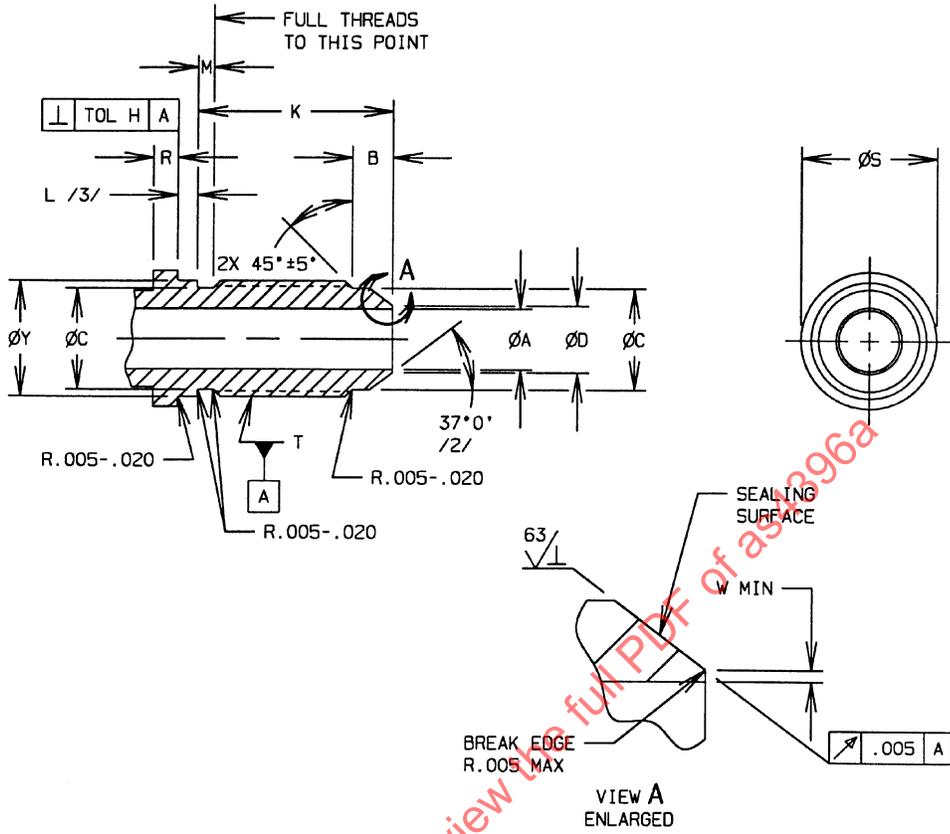


FIGURE 1 - FITTING END DESIGN, STYLE G

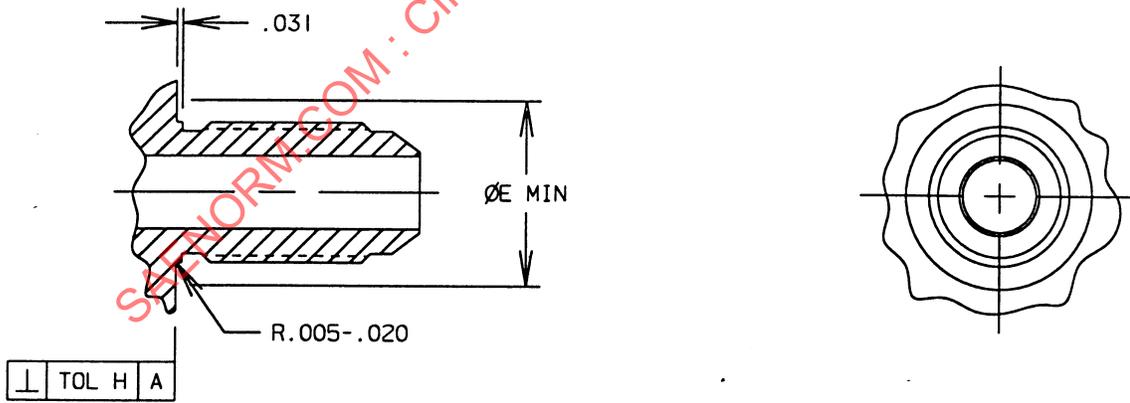


FIGURE 2 - FITTING END DESIGN, STYLE H, SAME AS STYLE G EXCEPT AS SHOWN

CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: NONE /1/

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

FITTING END, BULKHEAD, FLARED TUBE
CONNECTION, DESIGN STANDARD

AS4396
SHEET 1 OF 5

REV.
A

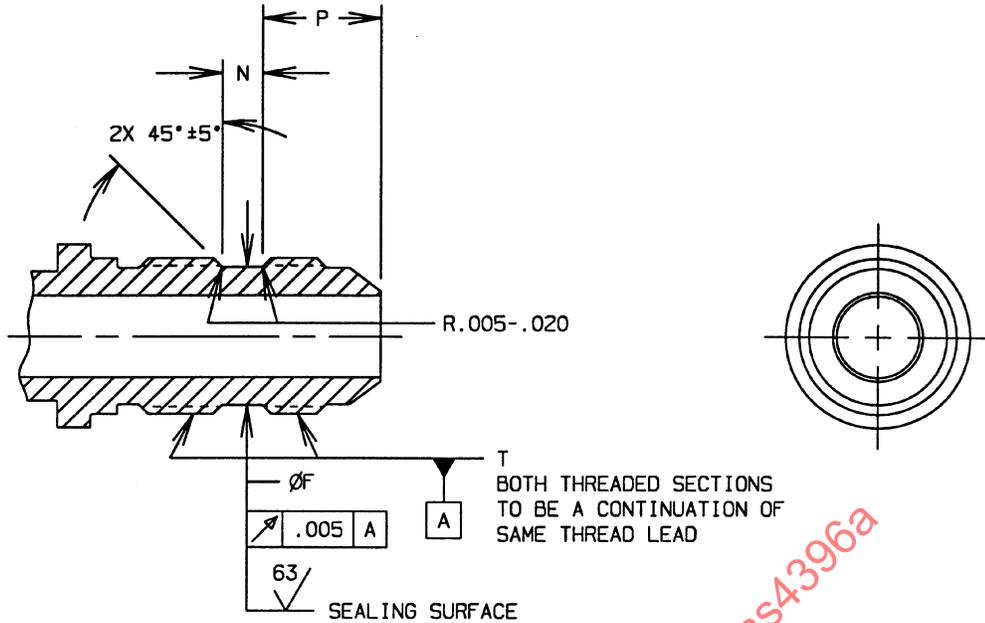


FIGURE 3 - FITTING END DESIGN, STYLE S, SAME AS STYLE G EXCEPT AS SHOWN

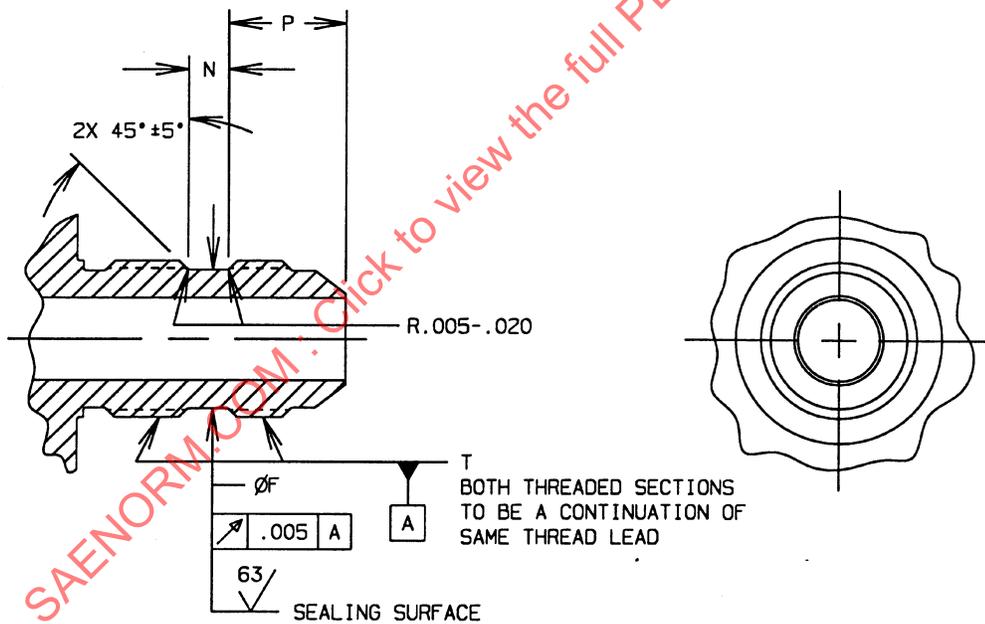


FIGURE 4 - FITTING END DESIGN, STYLE E, SAME AS STYLE H EXCEPT AS SHOWN

REV.
A

AS4396

TABLE 1A - DIMENSIONS A-D

BASIC NO. AS4396 /11/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER MIL-S-8879 CLASS 3A				
		A	B +.015/-.000	C +.000/-.005	D ±.003	
02	.125	.3125-24 UNJF	.058- .065	.177	.245	.083
03	.188	.3750-24 UNJF	.121- .128	.177	.307	.146
04	.250	.4375-20 UNJF	.168- .175	.193	.359	.193
05	.312	.5000-20 UNJF	.230- .237	.193	.421	.255
06	.375	.5625-18 UNJF	.293- .301	.198	.476	.318
08	.500	.7500-16 UNJF	.387- .395	.253	.654	.426
10	.625	.8750-14 UNJF	.480- .488	.266	.767	.539
12	.750	1.0625-12 UNJ	.604- .614	.315	.938	.664
16	1.000	1.3125-12 UNJ	.839- .851	.315	1.188	.913
20	1.250	1.6250-12 UNJ	1.073-1.086	.367	1.501	1.147
24	1.500	1.8750-12 UNJ	1.307-1.320	.378	1.750	1.381
28	1.750	2.2500-12 UNJ	1.542-1.557	.451	2.125	1.646
32	2.000	2.5000-12 UNJ	1.776-1.791	.461	2.375	1.880
40	2.500	3.0000-12 UNJ	2.276-2.291	.395	2.882	2.380
48	3.000	3.5000-12 UNJ	2.776-2.791	.395	3.382	2.880

TABLE 1B - DIMENSIONS E-P

BASIC NO. AS4396 /11/ SIZE CODE	E /3/	F +.002/-.003	H			M +.015/-.000	N +.010/-.000	P ±.005
			H	K	L			
02	.532	.250	.005	.922	.094	.063	.125	.385
03	.595	.312	.005	.922	.094	.063	.131	.385
04	.658	.364	.005	1.016	.094	.075	.140	.443
05	.720	.426	.005	1.016	.094	.075	.140	.443
06	.782	.481	.005	1.094	.094	.083	.156	.476
08	.970	.660	.005	1.250	.125	.094	.187	.565
10	1.093	.773	.005	1.391	.125	.107	.219	.623
12	1.343	.945	.008	1.562	.125	.125	.234	.732
16	1.593	1.195	.008	1.562	.125	.125	.234	.732
20	1.843	1.507	.008	1.609	.125	.125	.234	.784
24	2.089	1.756	.008	1.625	.125	.125	.234	.795
28	2.464	2.131	.008	1.781	.125	.125	.234	.868
32	2.714	2.381	.008	1.906	.125	.125	.234	.878
40	3.214	2.881	.008	1.719	.125	.125	.234	.895
48	3.714	3.381	.008	1.812	.125	.125	.234	.978

REV.
A

AS4396

TABLE 1C - DIMENSIONS R-Y

BASIC NO. AS4396 /11/ SIZE CODE	R	S	W	Y
02	.109	.438	.005	.3053-.3125
03	.109	.500	.005	.3678-.3750
04	.125	.562	.005	.4294-.4375
05	.125	.625	.005	.4919-.5000
06	.141	.688	.005	.5538-.5625
08	.156	.875	.012	.7406-.7500
10	.172	1.000	.022	.8647-.8750
12	.188	1.188	.022	1.0511-1.0625
16	.188	1.438	.029	1.3011-1.3125
20	.188	1.750	.029	1.6136-1.6250
24	.188	2.000	.029	1.8636-1.8750
28	.188	2.375	.044	2.2386-2.2500
32	.188	2.625	.044	2.4886-2.5000
40	.188	3.125	.044	2.9886-3.0000
48	.188	3.625	.044	3.4886-3.5000

NOTES:

- /1/ THIS FITTING END IS DESIGNED FOR USE WITH FITTINGS PER AS4841.
- /2/ THE CONICAL SEALING SURFACE SHALL BE FREE OF FLAWS, NICKS, AND CHATTER MARKS WHEN VIEWED WITH THE UNAIDED EYE.
- /3/ ON THE STYLE G FITTING END, THE L DIMENSION PROVIDES FOR A WASHER TO FORM A BACKING FACE AGAINST THE BULKHEAD PLUS .031 ADDITIONAL FOR POSITIONING IN THE BULKHEAD. ON THE STYLE H FITTING END, NO WASHER IS REQUIRED.
4. INTERPRETATION OF DRAWING PER ARP4296.
5. THE CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT.
6. INVENTORIED PARTS WITH FITTING ENDS CONFORMING TO THE PREVIOUS "LETTER CHANGE" OF THIS STANDARD MAY BE USED TO DEPLETION.
7. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED - MACHINED SURFACES TO BE 125 μ m Ra.
8. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
9. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.