

REV. A

SAE AS4659

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS4659A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

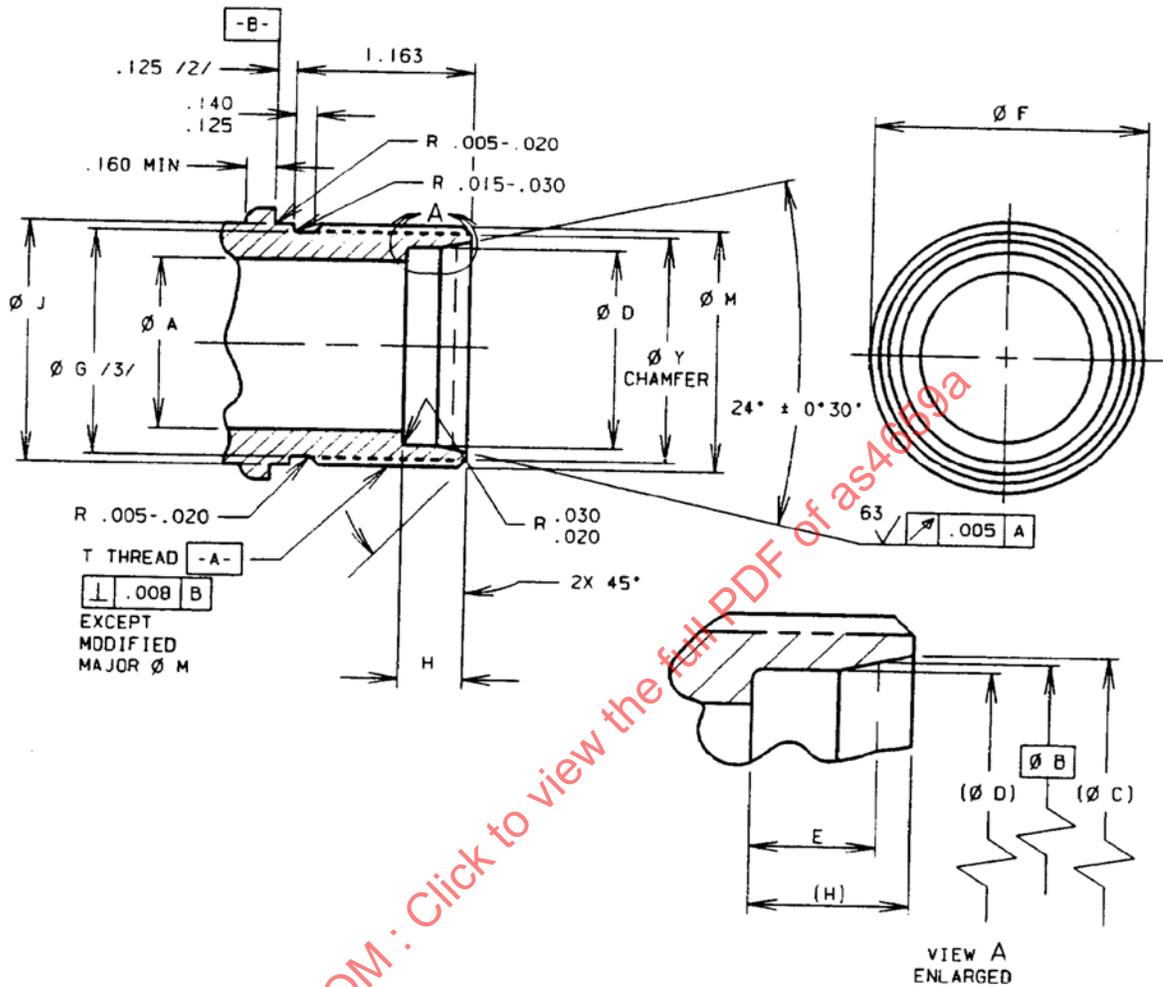
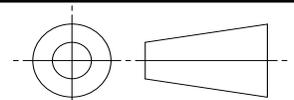


FIGURE 1 - FITTING END DESIGN, STYLE S

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: NONE /1/

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING END, EXTERNAL THREAD,
SHORT FLARELESS, DESIGN STANDARD

SAE AS4659
SHEET 1 OF 3

REV. A

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ISSUED 1992-07 REVISED 1993-06 REAFFIRMED 2013-01

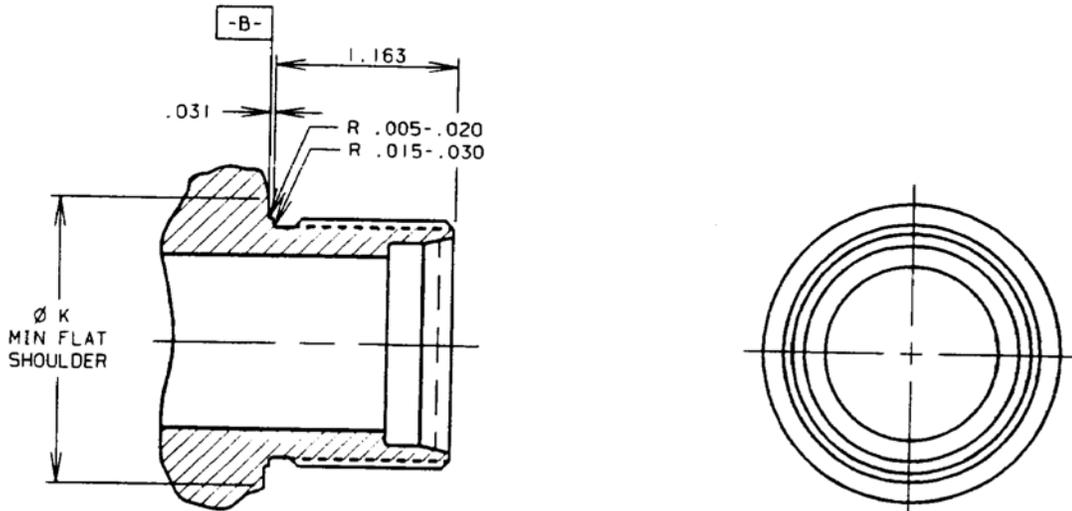


FIGURE 2 - FITTING END DESIGN, STYLE E
SAME AS STYLE S EXCEPT AS SHOWN

TABLE 1 - DIMENSIONS

BASIC NO. AS4659	(NOMINAL /10/ TUBE SIZE CODE)	T THREAD PER MIL-S-8879 MODIFIED	A ±.003	B	C	D ±.002	E ±.005	F ±.031	G ±.000/- .005	H ±.003	J	K	M ±.003	Y
20	1.250	1.5625-12 UNJ-3A	1.093	1.3160	1.339	1.272	.325	1.688	1.466	.380	1.5511-1.5625	1.812	1.540	1.441
24	1.500	1.8125-12 UNJ-3A	1.344	1.5650	1.588	1.522	.390	1.938	1.716	.445	1.8011-1.8125	2.062	1.790	1.692

NOTES:

1. THIS FITTING END IS DESIGNED FOR USE IN SYSTEMS WITH OPERATING PRESSURES AS FOLLOWS:
 - a. SIZES -20 AND -24 TITANIUM ALLOY AND CORROSION RESISTANT STEEL AT 3000 psi
 - b. SIZES -20 AND -24 ALUMINUM ALLOY AT 600 psi

THIS DESIGN STANDARD IS FOR USE WITH SHORT FLARELESS FITTINGS PER AS4660 THROUGH AS4703. THIS FITTING END MATES WITH AS4703 FITTING END DESIGN.

- /2/ ON STYLE S FITTING ENDS, THE .125 DIMENSION PROVIDES FOR A WASHER TO FORM A BACKING FACE AGAINST A BULKHEAD AND A .031 WIDE LAND FOR POSITIONING IN THE BULKHEAD. ON STYLE E FITTING ENDS, NO WASHER IS REQUIRED.
- /3/ THREAD MARKS ON THIS DIAMETER ARE ACCEPTABLE.
4. INVENTORIED PARTS WITH FITTING ENDS CONFORMING TO THE PREVIOUS "LETTER CHANGE" OF THIS STANDARD MAY BE USED TO DEPLETION.
5. INTERPRETATION OF DRAWING PER ARP4296.
6. SURFACE TEXTURE: SYMBOLS PER ANSI Y14.36; REQUIREMENTS PER ANSI/ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 μ in Ra.
7. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
8. DIMENSIONING AND TOLERANCING: ANSI Y14.5M.
9. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS \pm .010, ANGULAR DIMENSIONS \pm 5°.

 An SAE International Group	AEROSPACE STANDARD	SAE AS4659 SHEET 2 OF 3	REV. A
	FITTING END, EXTERNAL THREAD, SHORT FLARELESS, DESIGN STANDARD		