FEDERAL SUPPLY CLASS
4730

RATIONALE

GRAPHICS REDRAWN FOR IMPROVED CLARITY. INTERNAL BORE DIAMETER “E” REMOVED AS IT IS ALREADY SPECIFIED IN DESIGN STANDARD, AS4207. DIMENSION “E” REMOVED FROM TABLE 1A. OUTDATED STANDARDS UPDATED TO CURRENT NOMENCLATURE. FLAGNOTE /13/ ADDED, STATING THE MANUFACTURER SHALL CONTROL AND BE RESPONSIBLE FOR FEATURES NOT DIMENSIONED ON THIS STANDARD. DRAWING INTERPRETATION NOTE 14, INVENTORY DISPOSITION NOTE 15, AND REVISION INDICATOR NOTE 16 ADDED.

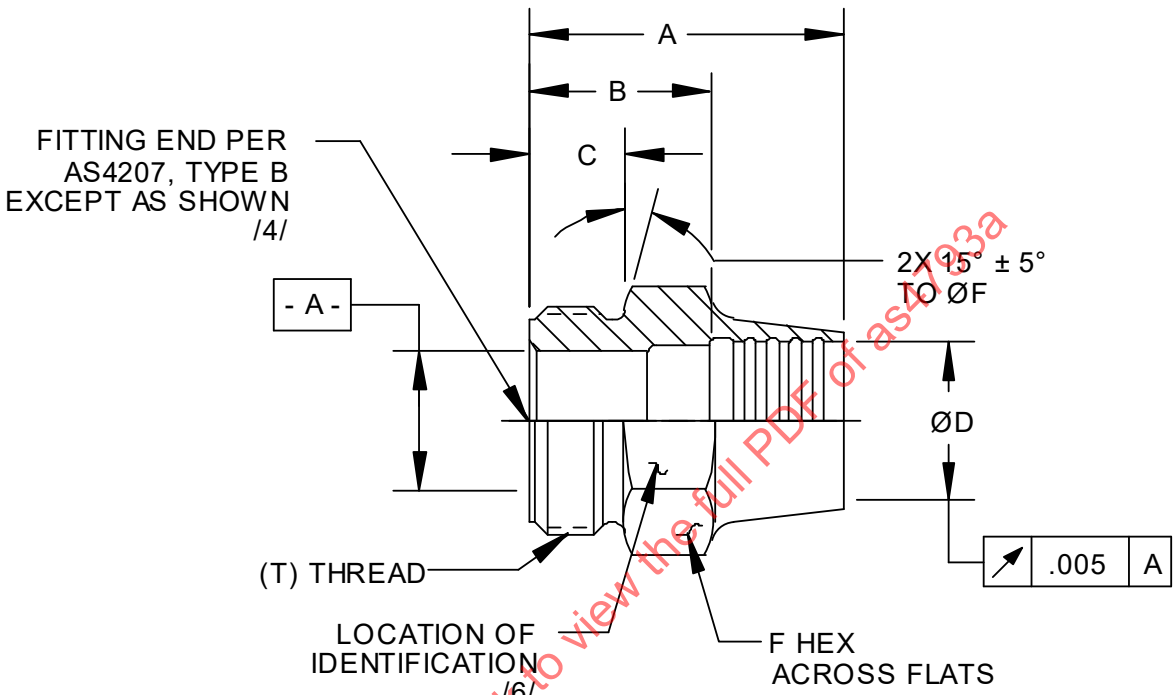
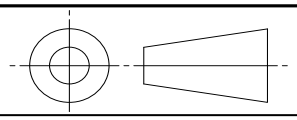


FIGURE 1 /13/

For more information on this standard, visit
https://www.sae.org/standards/content/AS4793A/

THIRD ANGLE PROJECTION



ISSUED 1995-05 REAFFIRMED 2015-04 REVISED 2024-08

CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS85421 /5/

AEROSPACE STANDARD

FITTING, BEAM SEAL,
MALE TUBE END, INTERNAL SWAGE,
4000 PSI, HYDRAULIC

TO PLACE A DOCUMENT ORDER: **Tel: 877-606-7323 (inside USA and Canada)** **Tel: +1 724-776-4970 (outside USA)**
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TABLE 1A - DIMENSIONS A-D

BASIC NUMBER AS4793 /12/ SIZE CODE	(NOMINAL TUBE SIZE)	(T) THREAD PER AS8879 CLASS 3A	A	B ±.010	C	D ±.002
03	.188	.3750-28 UNJS	.758	.433	.233	.191
04	.250	.4375-24 UNJS	.830	.475	.275	.255
05	.312	.5000-24 UNJS	.861	.506	.275	.317
06	.375	.5625-20 UNJS	.891	.536	.295	.380
08	.500	.7188-20 UNJS	1.025	.595	.308	.506
10	.625	.8438-18 UNJS	1.182	.677	.372	.631
12	.750	1.0000-16 UNJ	1.219	.714	.412	.756
14	.875	1.1250-16 UNJ	1.315	.730	.430	.881
16	1.000	1.2500-14 UNJS	1.345	.760	.460	1.006
20	1.250	1.5781-14 UNJS	1.480	.820	.457	1.256
24 /7/	1.500	1.8438-14 UNJS	1.640	.905	.542	1.506

TABLE 1B - DIMENSION F AND WEIGHT

BASIC NUMBER AS4793 /12/ SIZE CODE	F REF	LB/EA MAX CRES	LB/EA MAX TI
03	.373	.018	.010
04	.438	.019	.011
05	.500	.040	.023
06	.562	.032	.018
08	.750	.058	.033
10	.875	.088	.050
12	1.000	.114	.065
14	1.125	TBD	TBD
16	1.250	.190	.108
20	1.625	TBD	TBD
24 /7/	2.000	TBD	TBD

NOTES:

/1/ MATERIAL:

a. CODE LETTER A: TYPE 6AL-4V TITANIUM ALLOY (ANNEALED) PER AMS4928.

b. CODE LETTER P: TYPE 17-4PH CORROSION RESISTANT STEEL PER AMS5643.

c. CODE LETTER T: TYPE 6AL-4V TITANIUM ALLOY (SOLUTION AND PRECIPITATION HEAT TREATED) PER AMS4965.

d. CODE LETTER V: TYPE 15-5PH CORROSION RESISTANT STEEL PER AMS5659.

2. HEAT TREATMENT: CORROSION RESISTANT STEEL TO CONDITION H1075 PER AMS2759-3.

3. FINISH:

a. CORROSION RESISTANT STEEL: PASSIVATE PER AMS2700 TYPE 2 OR TYPE 8.

b. TITANIUM: NONE.

/4/ DRY FILM LUBRICANT: APPLY DRY FILM LUBRICANT PER AS5272, TYPE 1 TO SEALING SURFACE. OVERSPRAY IN BORE IS NOT PERMITTED.

/5/ PROCUREMENT SPECIFICATION: AS85421, EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT MANUFACTURED TO THIS STANDARD SHALL MEET THE REQUIREMENTS SPECIFIED HEREIN AND THE PROCUREMENT SPECIFICATION. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.

/6/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 -7A3, -15A3, -15B, CLASS C OR CLASS D.

a. FOR SIZES 06 (.375 OD TUBE SIZE) AND SMALLER: MANUFACTURER'S NAME OR TRADEMARK, MATERIAL CODE LETTER, AND PRESSURE RATING (EXAMPLE: 4K = 4000 PSI).

b. FOR SIZES 08 (.500 OD TUBE SIZE) AND LARGER: MANUFACTURER'S NAME OR TRADEMARK, BASIC PART NUMBER, MATERIAL CODE LETTER, AND PRESSURE RATING (EXAMPLE: 4K = 4000 PSI).

/7/ THIS PART IS DESIGNED FOR USE IN 4000 PSI WORKING PRESSURE SYSTEMS MAXIMUM FOR SIZES 03 THROUGH 20 AND 2000 PSI FOR SIZE 24.

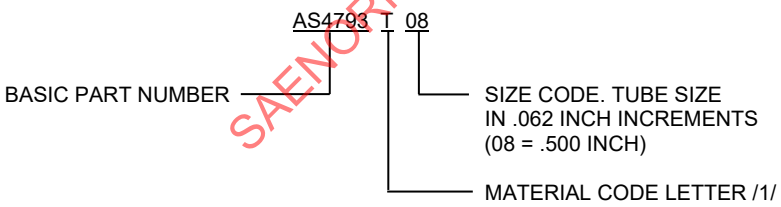
8. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 MICROINCHES Ra.

9. BREAK EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.

10. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.

11. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ±.015, ANGULAR DIMENSIONS ±2°.

/12/ EXAMPLE OF PART NUMBER:



/13/ SPECIFIC DIMENSIONS AND TOLERANCES NOT DEFINED ON THIS STANDARD SHALL BE SPECIFIED AND CONTROLLED BY THE MANUFACTURER. THE MANUFACTURER IS RESPONSIBLE TO ENSURE COMPATIBILITY WITH THE ASSEMBLY AND COMPLIANCE WITH THE REQUIREMENTS OF THE APPLICABLE PROCUREMENT SPECIFICATION.

14. INTERPRETATION OF DRAWING PER AS4296.

15. INVENTORIED PARTS CONFORMING TO THE PREVIOUS LETTER CHANGE MAY BE USED TO DEPLETION.