

SAE Executive Standards Committee 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 revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

<p style="text-align: center;">REV. A</p> <p style="text-align: center;">AS4793™</p>	<p style="text-align: right;">FEDERAL SUPPLY CLASS 4730</p> <p style="text-align: center;">RATIONALE</p> <p>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 OUTDATED STANDARDS UPDATED TO CURRENT NOMENCLATURE.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.</p>
<p style="text-align: center;">FITTING END PER AS4207, TYPE B EXCEPT AS SHOWN /4/</p> <p style="text-align: center;">- A -</p> <p style="text-align: center;">(T) THREAD</p> <p style="text-align: center;">LOCATION OF IDENTIFICATION /6/</p>	<p style="text-align: center;">2X 15° ± 5° TO ØF</p> <p style="text-align: center;">ØD</p> <p style="text-align: center;">.005 A</p> <p style="text-align: center;">F HEX ACROSS FLATS</p>
<p style="text-align: center;">FIGURE 1/13/</p>	<p style="text-align: right;">THIRD ANGLE PROJECTION</p>
<p>CUSTODIAN: G-3/G-3B</p> <p>SAE INTERNATIONAL</p>	<p style="text-align: center;">PROCUREMENT SPECIFICATION: AS85421 /5/</p> <p style="text-align: center;">AEROSPACE STANDARD</p> <p style="text-align: center;">FITTING, BEAM SEAL, MALE TUBE END, INTERNAL SWAGE, 4000 PSI, HYDRAULIC</p> <p style="text-align: center;">AS4793™ SHEET 1 OF 4</p> <p style="text-align: center;">REV. A</p>
<p>Copyright © 2024 SAE International All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, or used for text and data mining, AI training, or similar technologies, without the prior written permission of SAE.</p> <p>TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada) Tel: +1 724-776-4970 (outside USA) Fax: 724-776-0790 Email: CustomerService@sae.org SAE WEB ADDRESS: http://www.sae.org</p>	

TABLE 1A - DIMENSIONS A-D

BASIC NUMBER AS4793 /12/ SIZE CODE	(NOMINAL TUBE SIZE)	(T) THREAD PER AS8879 CLASS 3A				B ±.010	C	D ±.002
		A						
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

**AEROSPACE STANDARD**

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

AS4793™
SHEET 2 OF 4

**REV.
A**

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.

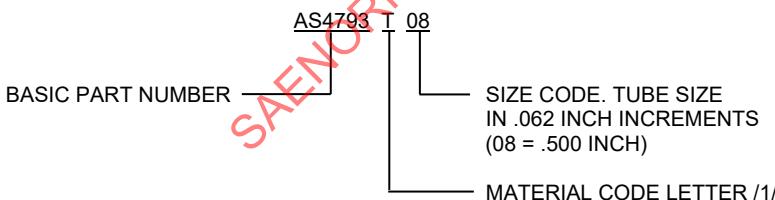
8. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 MICROINCHES Ra.

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 $\pm .015$, ANGULAR DIMENSIONS $\pm 2^\circ$.

/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.

	AEROSPACE STANDARD		AS4793™ SHEET 3 OF 4	REV. A
	FITTING, BEAM SEAL, MALE TUBE END, INTERNAL SWAGE, 4000 PSI, HYDRAULIC			