

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.

REV.
B

AS6231™

FEDERAL SUPPLY CLASS
4730

RATIONALE

UPDATING ACROSS CORNER DIMENSION "B" TO ALIGN WITH ARP1942 RECOMMENDED VALUES TO FACILITATE MANUFACTURING. THE CURRENT VALUES ARE TOO TIGHT TO ALLOW FOR VARIATIONS WHEN ACROSS FLATS ARE MANUFACTURED WITHIN THE ALLOWABLE LIMITS. ADDITIONALLY, CHAMFER IS ADDED TO BOTH SIDES OF THE WRENCHING HEXAGON FEATURE. ADDED NOTE FOR DEPLETION OF EXISTING INVENTORY.

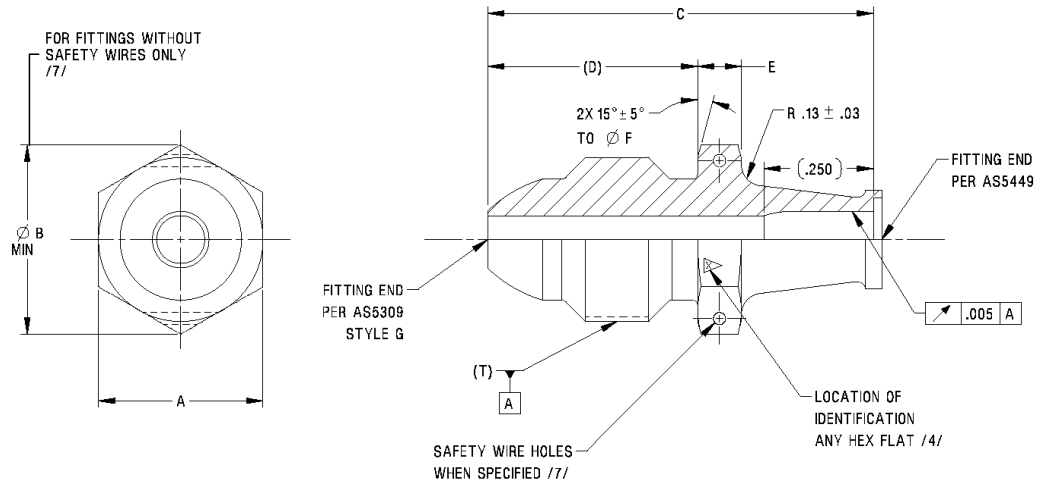


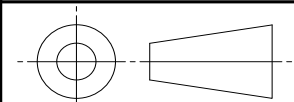
FIGURE 1 - FITTING, ADAPTER

TABLE 1A - DIMENSIONS

BASIC NO. AS6231 /14/ SIZE CODE	NOMINAL TUBE SIZE	T THREAD AS8879 (REF)	A ±.005	B MIN	C ±.01	D (REF)	E ±.01	F ±.010
03	.188	.3750-24 UNJF	.438	.492	.88	.409	.10	.423
04	.250	.4375-20 UNJF	.438	.492	.93	.550	.10	.423
05	.312	.5000-20 UNJF	.500	.564	.95	.550	.10	.485
06	.375	.5625-18 UNJF	.625	.706	1.05	.556	.20	.610
08	.500	.7500-16 UNJF	.750	.848	1.11	.657	.20	.735
10	.625	.8750-14 UNJF	.875	.990	1.20	.758	.20	.860
12	.750	1.0625-12 UNJ	1.063	1.190	1.28	.864	.20	1.048
16	1.000	1.3125-12 UNJ	1.312	1.470	1.34	.911	.20	1.297
20	1.250	1.6250-12 UNJ	1.625	1.788	1.40	.958	.20	1.610
24	1.500	1.8750-12 UNJ	1.875	2.063	1.53	1.083	.20	1.860

For more information on this standard, visit
<https://www.sae.org/standards/content/AS6231B/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4841 /3/



AEROSPACE STANDARD

FITTING, ADAPTER, EXTERNAL THREAD,
SPHERICAL, 37° FLARED TO INTEGRAL WELD RING

AS6231™
SHEET 1 OF 3

REV.
B

Copyright © 2026 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.

TO PLACE A DOCUMENT ORDER: Tel: 1-877-606-7323 (U.S. and Canada only)

Fax: 724-776-0790

Tel: 1-724-776-4970 (outside U.S. and Canada)

Email: CustomerService@sae.org

SAE WEB ADDRESS: <http://www.sae.org>

TABLE 1B - WEIGHTS

BASIC NO. AS6231 /14/ SIZE CODE	LB/EA APPROX REF NICKEL ALLOY	LB/EA APPROX REF CRES	LB/EA APPROX REF TITANIUM ALLOY
03	.016	.016	.008
04	.022	.021	.012
05	.028	.027	.015
06	.039	.037	.021
08	.074	.071	.039
10	.108	.103	.060
12	.165	.156	.087
16	.236	.224	.124
20	.358	.340	.189
24	.489	.465	.258

NOTES:

/1/ MATERIAL:

- a. CODE LETTER N - TYPE 625 NICKEL ALLOY BAR PER AMS5666.
- b. CODE LETTER R - TYPE 321 CORROSION-RESISTANT STEEL FORGING OR BAR PER AMS5645.
- c. CODE LETTER T - TYPE 6Al - 4V TITANIUM ALLOY BAR PER AMS4928 /8/.

2. FINISH:

- a. MATERIAL CODE LETTER N - NONE.
- b. MATERIAL CODE LETTER R - PASSIVATE PER AMS2700, TYPE 6 OR TYPE 7.
- c. MATERIAL CODE LETTER T - NONE.

/3/ PROCUREMENT SPECIFICATION: AS4841, EXCEPT AS SPECIFIED IN THIS STANDARD. PRODUCT MANUFACTURED TO THIS STANDARD SHALL MEET THE REQUIREMENTS SPECIFIED HEREIN AND THE PROCUREMENT SPECIFICATION. ORIGINAL COMPONENT MANUFACTURERS (OCM) SHALL BE LISTED IN THE NADCAP QUALIFIED MANUFACTURER LIST (QML) FOR THIS PRODUCT TYPE. THE QML IS AVAILABLE AT www.eAuditNet.com.

/4/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D, OR METHOD 7A3, 15A3, OR 15B.

- a. FOR SIZES 06 AND SMALLER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, LETTERS "AS," AND MATERIAL CODE LETTER.
- b. FOR SIZES 08 AND LARGER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER, AND MATERIAL CODE LETTER.

5. INTENDED USE: THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURES AS SPECIFIED IN THE PROCUREMENT SPECIFICATION.

6. REVISION INDICATOR: A 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, INCLUDING TECHNICAL REVISIONS. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS, NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.

/7/ SUFFIX LETTER L: CODE L PARTS SHALL HAVE SAFETY WIRE HOLES PER AS1043 STYLE B, EXCEPT FOR -03 AND -04 SIZE FITTINGS DIMENSIONS B AND C OF AS1043 SHALL BE B = .057 ± .005, C = .047 +.005/- .001.

/8/ TITANIUM MATERIAL EXPOSED TO MANUFACTURING PROCESSES OR FLUIDS CONTAINING CHLORINE CONCENTRATIONS GREATER THAN 200 PPM SHALL BE CLEANED TO REMOVE CHLORINE RESIDUE.

	AEROSPACE STANDARD		AS6231™ SHEET 2 OF 3	REV. B
	FITTING, ADAPTER, EXTERNAL THREAD, SPHERICAL, 37° FLARED TO INTEGRAL WELD RING			