

AS5232

FEDERAL SUPPLY CLASS
4730

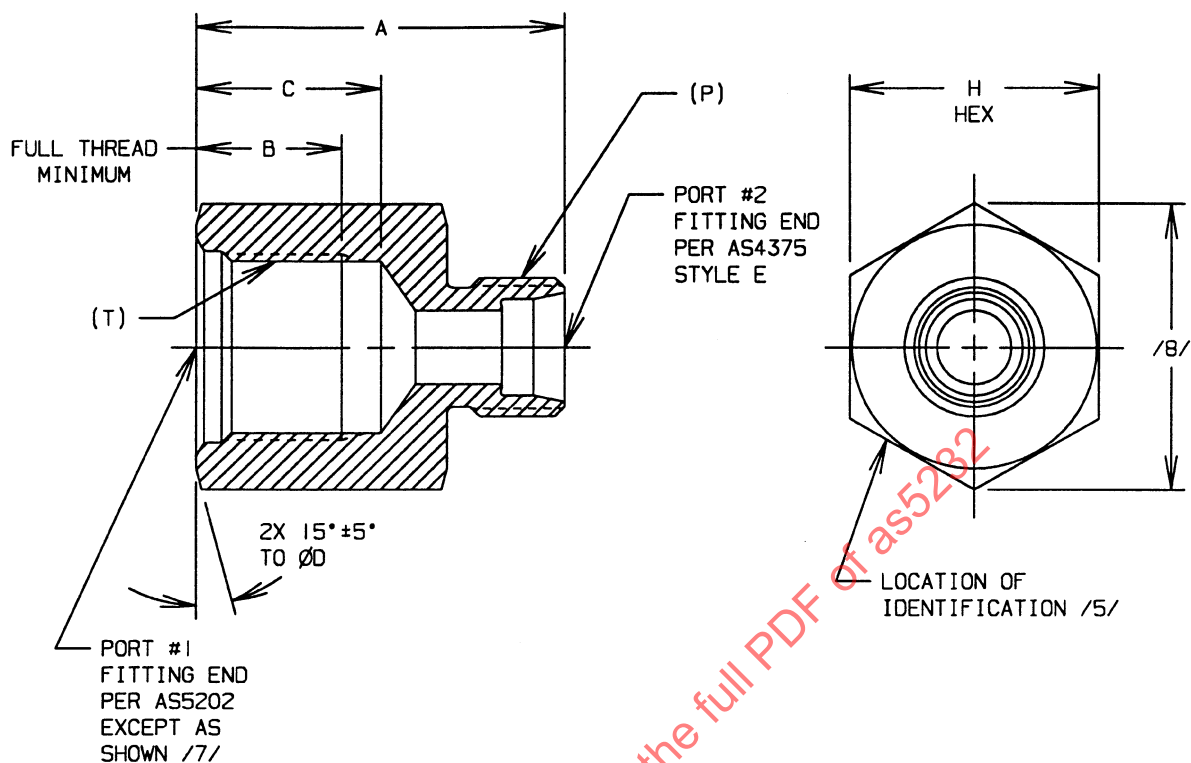
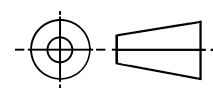


FIGURE 1 - FITTING, ADAPTER

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4444

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING, ADAPTER, REDUCER, PORT TO FLARELESS

AS5232
SHEET 1 OF 5

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.

Copyright 2004 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Fax: 724-776-0790

Tel: 724-776-4970 (outside USA)
Email: custsvc@sae.org

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

ISSUED 1998-03 REAFFIRMED 2004-07

TABLE 1 - DIMENSIONS

BASIC NO. AS5232 /14/ SIZE CODE	(NOMINAL TUBE SIZE) PORT #1	(NOMINAL TUBE SIZE) PORT #2	T THREAD PER MIL-S-8879 CLASS 3B	P THREAD PER MIL-S-8879 CLASS 3A	A	B	C
0302	.188	.125	.3750-24 UNJF	.3125-24 UNJF	1.125	.406	.516
0402	.250	.125	.4375-20 UNJF	.3125-24 UNJF	1.234	.438	.610
0403	.250	.188	.4375-20 UNJF	.3750-24 UNJF	1.250	.438	.610
0504	.312	.250	.5000-20 UNJF	.4375-20 UNJF	1.281	.438	.610
0604	.375	.250	.5625-18 UNJF	.4375-20 UNJF	1.313	.469	.610
0605	.375	.312	.5625-18 UNJF	.5000-20 UNJF	1.281	.469	.610
0804	.500	.250	.7500-16 UNJF	.4375-20 UNJF	1.484	.562	.734
0805	.500	.312	.7500-16 UNJF	.5000-20 UNJF	1.453	.562	.734
0806	.500	.375	.7500-16 UNJF	.5625-18 UNJF	1.469	.562	.734
1004	.625	.250	.8750-14 UNJF	.4375-20 UNJF	1.578	.625	.797
1005	.625	.312	.8750-14 UNJF	.5000-20 UNJF	1.563	.625	.797
1006	.625	.375	.8750-14 UNJF	.5625-18 UNJF	1.563	.625	.797
1008	.625	.500	.8750-14 UNJF	.7500-16 UNJF	1.656	.625	.797
1206	.750	.375	1.0625-12 UNJ	.5625-18 UNJF	1.734	.688	.922
1208	.750	.500	1.0625-12 UNJ	.7500-16 UNJF	1.828	.688	.922

TABLE 1A - DIMENSIONS AND WEIGHTS

BASIC NO. AS5232 /14/ SIZE CODE	D ±.010	H	LB/EA MAX AL	LB/EA MAX STEEL	LB/EA MAX TI
0302	.605	.615-.628	.0248	.0711	.0392
0402	.668	.678-.691	.0324	.0929	.0513
0403	.668	.678-.691	.0323	.0928	.0512
0504	.730	.740-.753	.0373	.107	.0590
0604	.792	.802-.815	.0438	.126	.0693
0605	.792	.802-.815	.0307	.0881	.0486
0804	.980	.990-1.003	.0707	.203	.112
0805	.980	.990-1.003	.0687	.197	.109
0806	.980	.990-1.003	.0701	.201	.111
1004	1.103	1.113-1.128	.0928	.266	.147
1005	1.103	1.113-1.128	.0918	.264	.145
1006	1.103	1.113-1.128	.0902	.259	.143
1008	1.103	1.113-1.128	.0958	.275	.152
1206	1.353	1.363-1.380	.153	.438	.242
1208	1.353	1.363-1.380	.158	.454	.250

TABLE 1B - DIMENSIONS

BASIC NO. AS5232 /14/ SIZE CODE	(NOMINAL TUBE SIZE) PORT #1	(NOMINAL TUBE SIZE) PORT #2	T THREAD PER MIL-S-8879 CLASS 3B	P THREAD PER MIL-S-8879 CLASS 3A	A	B	C
1210	.750	.625	1.0625-12 UNJ	.8750-14 UNJF	1.891	.688	.922
1606	1.000	.375	1.3125-12 UNJ	.5625-18 UNJF	1.844	.688	.954
1608	1.000	.500	1.3125-12 UNJ	.7500-16 UNJF	1.938	.688	.954
1610	1.000	.625	1.3125-12 UNJ	.8750-14 UNJF	1.984	.688	.954
1612	1.000	.750	1.3125-12 UNJ	1.0625-12 UNJ	2.031	.688	.954
2008	1.250	.500	1.6250-12 UNJ	.7500-16 UNJF	2.078	.688	1.000
2010	1.250	.625	1.6250-12 UNJ	.8750-14 UNJF	2.125	.688	1.000
2012	1.250	.750	1.6250-12 UNJ	1.0625-12 UNJ	2.156	.688	1.000
2016	1.250	1.000	1.6250-12 UNJ	1.3125-12 UNJ	2.078	.688	1.000

TABLE 1C - DIMENSIONS AND WEIGHTS

BASIC NO. AS5232 /14/ SIZE CODE	D ±.010	H	LB/EA MAX AL	LB/EA MAX STEEL	LB/EA MAX TI
1210	1.353	1.353-1.380	.163	.469	.259
1606	1.603	1.613-1.630	.221	.635	.350
1608	1.603	1.613-1.630	.226	.649	.358
1610	1.603	1.613-1.630	.219	.630	.347
1612	1.603	1.613-1.630	.228	.654	.361
2008	1.853	1.863-1.880	.304	.873	.481
2010	1.853	1.863-1.880	.303	.871	.480
2012	1.853	1.863-1.880	.297	.851	.470
2016	1.853	1.863-1.880	.276	.793	.438

NOTES:

/1/ MATERIAL:

- DASH AS CODE LETTER - TYPE 4130 CARBON STEEL BAR PER MIL-S-6758 OR AMS 6370. /2/
- CODE LETTER D - TYPE 2024-T6 ALUMINUM ALLOY BAR PER QQ-A-225/6 OR AMS 4112 OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER QQ-A-225/6. /2/
- CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL BAR PER QQ-S-763 OR AMS 5639.
- CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL BAR PER QQ-S-763 OR AMS 5648.
- CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL BAR PER QQ-S-763 OR AMS 5645.
- CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS 4928.
- CODE LETTER W - TYPE 7075-T73 ALUMINUM ALLOY BAR PER QQ-A-225/9 OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124. /2/

NOTES (CONTINUED):

/2/ HEAT TREATMENT:

- a. DASH AS CODE LETTER - SEE HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- b. CODE LETTERS D AND W - SEE ELECTRICAL CONDUCTIVITY AND HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- c. OTHER CODE LETTERS - NONE.

3. FINISH:

- a. DASH AS CODE LETTER - CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 2 AND COAT WITH A LIGHT FILM OF OIL PER PROCUREMENT SPECIFICATION.
- b. CODE LETTER D - ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, DYE GREEN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
- c. CODE LETTER J, K AND R - PASSIVATE PER QQ-P-35, TYPE VI OR VII.
- d. CODE LETTER T - ANODIZE PER AMS 2488 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486 WITH COLOR PER PROCUREMENT SPECIFICATION.
- e. CODE LETTER W - ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.

/4/ PROCUREMENT SPECIFICATION: AS4444 EXCEPT AS SPECIFIED ON THIS STANDARD. THIS PART SHALL BE QUALIFIED TO THE PROCUREMENT SPECIFICATION IN A COMPLETE ASSEMBLY AS APPLICABLE. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.

/5/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D OR METHOD 7A3, 15A3, OR 15B.

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

6. INTENDED USE: THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURES AS FOLLOWS:

- a. SIZES 03 THROUGH 16 IN CORROSION RESISTANT STEEL AND TITANIUM ALLOY AT 5000 psi.
- b. SIZE 20 IN CORROSION RESISTANT STEEL AND TITANIUM ALLOY AT 4000 psi.
- c. SIZES 03 THROUGH 12 IN ALUMINUM ALLOY AND SIZE 20 IN CORROSION RESISTANT STEEL AND TITANIUM ALLOY AT 3000 psi.
- d. SIZES 16 THROUGH 20 IN ALUMINUM ALLOY AT 1500 psi.

THIS STANDARD IS THE FUNCTIONAL EQUIVALENT OF MS21915 AND IS INTENDED TO BE SUITABLE AS A REPLACEMENT STANDARD.

/7/ THE INTERNAL DIAMETER SHALL END IN A CONICAL END OF 110° MINIMUM INCLUDED ANGLE.

/8/ THE HEX CORNERS MAY BE ROUNDED PER ARP1942.

9. INTERPRETATION OF DRAWING PER ARP4296.

10. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 μ in Ra. SURFACES OF HEX FLATS MAY BE 250 μ in Ra.

11. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.

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

13. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS $\pm$.016, ANGULAR DIMENSIONS $\pm$ 0°30'.