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- 120.0, -.005 B В .005 Α MINIMUM FULL R.020-.040 THREAD TOL N A 32 Ε J MIN 45°±5° - R.020 MAX Α VIEW A ØC MIN **ENLARGED**

FIGURE 1 - FITTING END



ISSUED 2001-08 THIRD ANGLE PROJECTION

FEDERAL SUPPLY CLASS

CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: NONE /1/

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD PORT OR FITTING END, INTERNAL STRAIGHT THREAD,

DESIGN STANDARD

AS5202 SHEET 1 OF 3 REV. A

REVISED 2005-05

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TABLE 1A - DIMENSIONS

BASIC NO.		T THREAD				
AS5202	(NOMINAL	PER				
/9/	TUBE	AS8879	Α			D
SIZE CODE	SIZE)	CLASS 3B	000/+.015	В	С	000/+.005
01		.2500-28-UNJF	.359	.330	.062	.264
02	.125	.3125-24-UNJF	.438	.482	.062	.328
03	.188	.3750-24-UNJF	.500	.538	.125	.390
04	.250	.4375-20-UNJF	.562	.568	.172	.454
05	.312	.5000-20-UNJF	.625	.568	.234	.517
06	.375	.5625-18-UNJF	.688	.598	.297	.580
07	.438	.6250-18-UNJF	.750	.614	.360	.643
80	.500	.7500-16-UNJF	.875	.714	.391	.769
09	.562	.8125-16-UNJ	.938	.730	.438	.832
10	.625	.8750-14-UNJF	1.000	.802	.484	.896
11	.688	1.0000-12-UNJF	1.156	.877	.547	1.023
12	.750	1.0625-12-UNJ	1.234	.877	.609	1.086
14	.875	1.1875-12-UNJ	1.362	.877	.734	1.211
16	1.000	1.3125-12-UNJ	1.487	.877	.844	1.336
18	1.125	1.5000-12-UNJF	1.675	.877	.953	1.524
20	1.250	1.6250-12-UNJ	1.800	.877	1.078	1.648
24	1.500	1.8750-12-UNJ	2.050	.877	1.312	1.898
28	1.750	2.2500-12-UNJ	2.425	.877	1.547	2,273
						-
32	2.000	2.5000-12-UNJ	2.675	.907	1.781	2.524

TABLE 1B - DIMENSIONS

BASIC NO.			,	
AS5202				
/9/	Е			
SIZE CODE	000/+.015	G	J	N
01	.063	.478	.402	.002
02	.063	.602	.577	.003
03	.063	.665	.583	.003
D4	.075	.728	.656	.003
05	.075	.790	.656	.003
06	.083	.852	.709	.004
07	.094	.915	.725	.004
80	.094	1.040	.834	.004
09	.107	1.102	.850	.004
10	.107	1.165	.930	.004
11	.125	1.352	1.064	.004
12	.125	1.415	1.064	.004
14	.125	1.540	1.064	.004
16	.125	1.665	1.064	.004
18	.125	1.790	1.116	.004
20	.125	1.978	1.116	.004
24	.125	2.228	1.127	.006
28	.125	2.602	1.243	.006
32	.125	2.852	1.368	.006

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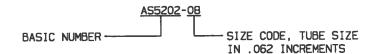
AEROSPACE STANDARD

PORT OR FITTING END, INTERNAL STRAIGHT THREAD, DESIGN STANDARD **AS5202** SHEET 2 OF 3

REV. A

NOTES:

- /1/ THIS FITTING END IS DESIGNED FOR USE WITH FITTINGS PER AS4875. THIS STANDARD IS THE FUNCTIONAL EQUIVALENT OF MS33649 AND IS INTENDED TO BE A SUITABLE REPLACEMENT STANDARD.
- /2/ MINIMUM DIAMETER FLAT SURFACE CLEARANCE PROVISIONS FOR FITTING, WRENCH, FITTING INSTALLATIONS AND TOOL FILLET RADII MUST BE ADDED AS REQUIRED. THE PERPENDICULARITY N TO THE THREADS APPLIES ONLY TO THE ØG MINIMUM. G DIAMETER MAY BE REDUCED BY .040 WHEN IT DEFINES THE LIMITS OF A RAISED SURFACE AND WHEN STRENGTH REQUIREMENTS PERMIT.
- 3. B DIMENSION IS THE FULL THREAD DEPTH REQUIREMENT FOR BLIND TAP DESIGN.
- 4. INTERPRETATION OF DRAWING PER ARP4296.
- 5. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 µin Ra.
- 6. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
- 7. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.
- DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ±.005, ANGULAR DIMENSIONS ±0°30'.
- /9/ EXAMPLE OF DRAWING CALLOUT:
 - a. TABULATED PART DRAWING: FITTING END PER AS5202
 - b. INDIVIDUAL PART DRAWING:



- 10. NOTE: "THIS STANDARD IS USED TO IMPLEMENT INTERNATIONAL STANDARDIZATION AGREEMENTS: NATO STANAG 3510 AND ASCC AIR STD 25/6. PLEASE NOTIFY THE FOLLOWING OFFICES WHEN CHANGES ARE MADE OR CONTACT THESE OFFICES FOR INQUIRIES PERTAINING TO THESE AGREEMENTS. NORTH ATLANTIC TREATY ORGANIZATION (NATO) STANDARDIZATION AGENCY, "NSA@HQ.NATO.INT", TEL 0032-2-707-5576, FAX 0032-2-707-5718, 1110 BRUSSELS, BELGIUM, AND AIR STANDARDIZATION COORDINATING COMMITTEE, "ASCCMCAS@PENTAGON.AF.MIL", TEL 1 703 696 8452, 1815 N. FORT MYER DRIVE, SUITE 400, ARLINGTON VA 22209-1809, USA.
- 11. THE 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.



AEROSPACE STANDARD

PORT OR FITTING END, INTERNAL STRAIGHT THREAD, DESIGN STANDARD **AS5202** SHEET 3 OF 3 REV.