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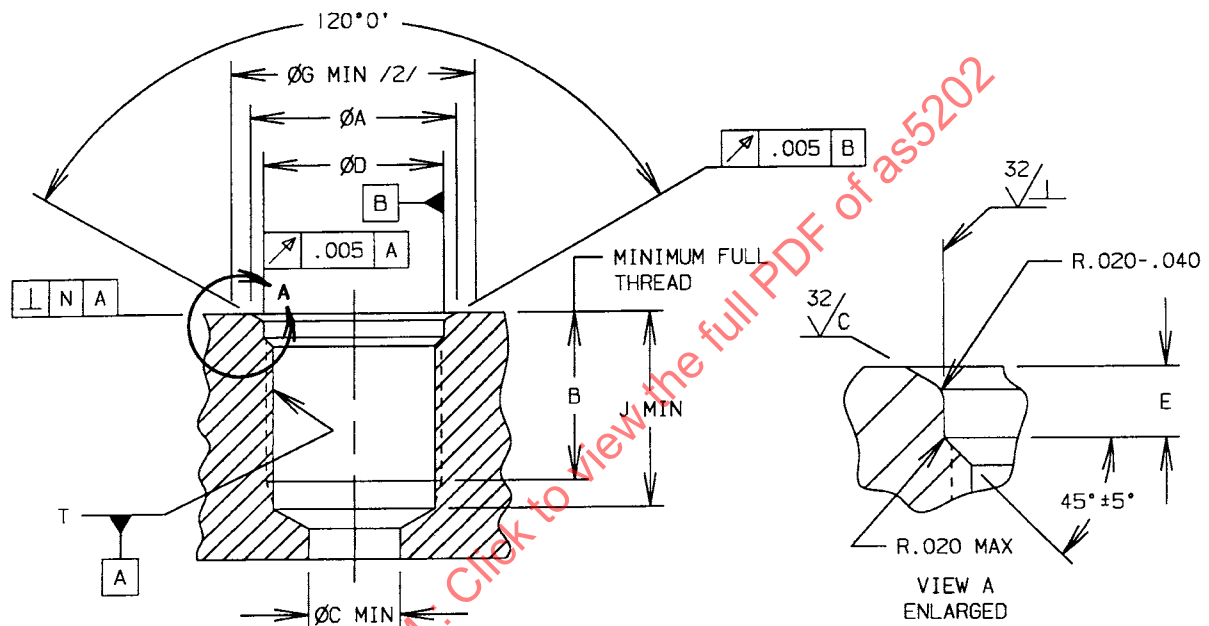
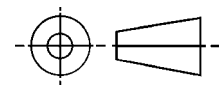


FIGURE 1 - FITTING END

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: NONE /1/

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400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARDPORT OR FITTING END, INTERNAL
STRAIGHT THREAD, DESIGN STANDARD**AS5202**
SHEET 1 OF 4

ISSUED 2001-08

TABLE 1A - DIMENSIONS

BASIC NO. AS5202 /9/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3B	A -.000/+ .015	B	C	D -.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
08	.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/		E			
SIZE	CODE	-.000/+ .015	G	J	N
01		.063	.478	.402	.002
02		.063	.602	.577	.003
03		.063	.665	.583	.003
04		.075	.728	.656	.003
05		.075	.790	.656	.003
06		.083	.852	.709	.004
07		.094	.915	.725	.004
08		.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

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 ϕ G 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 μ in Ra.
6. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
7. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.
8. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS $\pm .005$, ANGULAR DIMENSIONS $\pm 0^{\circ}30'$.