

REV.
B

SAE AS3078

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS3078B HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

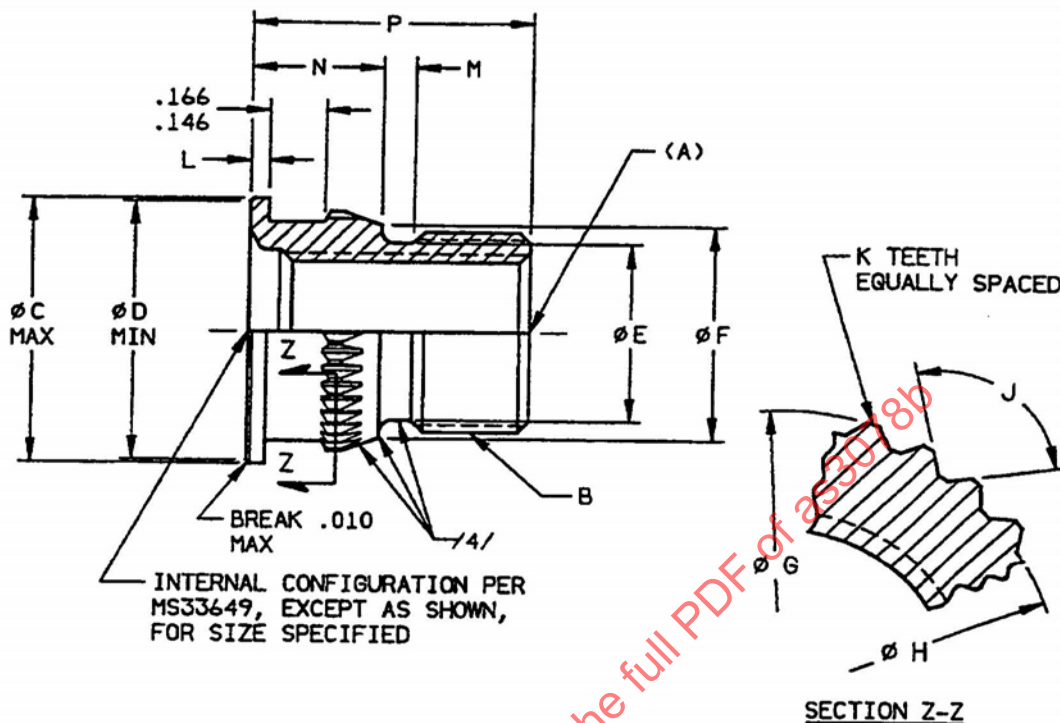


FIGURE 1 - INSERT

TABLE 1A - DIMENSIONS

BASIC NO. AS3078 /16/ SIZE CODE	A THREAD -3B MIL-S-8879	B THREAD -3A MIL-S-8879	C	D	E +.005/- .002	F ±.003	G +.005/- .004	H +.005/- .004
02	.3125-24UNJF	.4375-28UNJEF	.622	.602	.375	.469	.544	.502
03	.3750-24UNJF	.5000-28UNJEF	.685	.665	.440	.536	.611	.569
04	.4375-20UNJF	.5625-24UNJEF	.748	.728	.503	.599	.672	.632
05	.5000-20UNJF	.6250-24UNJEF	.810	.790	.566	.662	.737	.695
06	.5625-18UNJF	.6875-24UNJEF	.867	.852	.628	.724	.801	.758
08	.7500-16UNJF	.9375-20UNJEF	1.060	1.040	.858	.954	1.029	.988
10	.8750-14UNJF	1.0625-18UNJEF	1.185	1.165	.983	1.079	1.172	1.122
12	1.0625-12UNJ	1.2500-18UNJEF	1.435	1.415	1.171	1.267	1.362	1.310
16	1.3125-12UNJ	1.5000-18UNJEF	1.685	1.665	1.421	1.517	1.612	1.560
20	1.6250-12UNJ	1.8750-16UNJ	2.020	1.978	1.760	1.918	2.012	1.961

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS3078B>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B /8/

PROCUREMENT SPECIFICATION: NONE

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING, INSERT, FLUID CONNECTION,
MS33649 BOSS TO RING LOCKED BOSS

SAE AS3078
SHEET 1 OF 3

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TABLE 1B - DIMENSIONS AND WEIGHTS

BASIC NO. AS3078 /16/ SIZE CODE	J ±1.5°	K	L +.010/- .004	M +.010/- .005	N ±.015	P	LB/EA MAX	LOCKRING BASIC NO. AS3077 /7/ SIZE CODE
02	96.5	24	.047	.082	.364	.761	.02190	02
03	95.5	28	.047	.082	.364	.729	.02860	03
04	95.0	31	.047	.082	.364	.777	.02850	04
05	94.5	34	.047	.082	.364	.802	.03580	05
06	94.5	36	.047	.082	.364	.830	.03590	06
08	93.5	48	.047	.082	.364	.955	.07570	08
10	93.5	46	.057	.082	.374	1.051	.09790	10
12	93.0	54	.072	.082	.389	1.185	.12190	12
16	92.5	64	.072	.082	.389	1.185	.18360	16
20	92.0	80	.072	.122	.389	1.237	.27960	20

NOTES:

1. MATERIAL: A286 CORROSION RESISTANT STEEL PER AMS 5731, AMS 5732, AMS 5734, OR AMS 5737 (UNS S66286).
2. HEAT TREATMENT: AMS 5731 AND AMS 5734 PARTS SHALL BE AGED IN ACCORDANCE WITH MIL-H-6875. HARDNESS 29 HRC MIN.
3. FINISH: PASSIVATE PER QQ-P-35, TYPE II OR TYPE VII.
4. SEALING SURFACE: NO VISIBLE DEFECTS. TO BE PROTECTED FOR SHIPMENT.
5. FLUORESCENT PENETRANT INSPECTION PER AMS 2645. CRITERIA IN ACCORDANCE WITH AS3071.
6. IDENTIFICATION PER AS478, CLASS 35D. NAME, TRADEMARK OR CAGE CODE AND PART NUMBER.
7. INSERTS TO BE USED IN CONJUNCTION WITH AS3077 LOCKRING AND TO BE INSTALLED PER AS1959 INTO BOSS CAVITIES PER AS1958.
8. REVISIONS OF THIS STANDARD SHALL BE COORDINATED WITH SAE COMMITTEE E-25.
9. INVENTORIED PARTS CONFORMING TO THE PREVIOUS "LETTER CHANGE" MAY BE USED TO DEPLETION.
10. THE CHANGE BAR (†) 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.
11. INTERPRETATION OF DRAWING PER ARP4296.
12. SURFACE TEXTURE: SYMBOLS PER ANSI Y14.36; REQUIREMENTS PER ANSI/ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 µin Ra EXCEPT SEALING SURFACE TO BE 63 µin Ra AND SERRATIONS TO BE 250 µin Ra.
13. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
14. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994