

REV.
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SAE AS4099

FEDERAL SUPPLY CLASS
4730

RATIONALE

ADD AMS5853 OPTION FOR A286 LOCKRING MATERIAL.

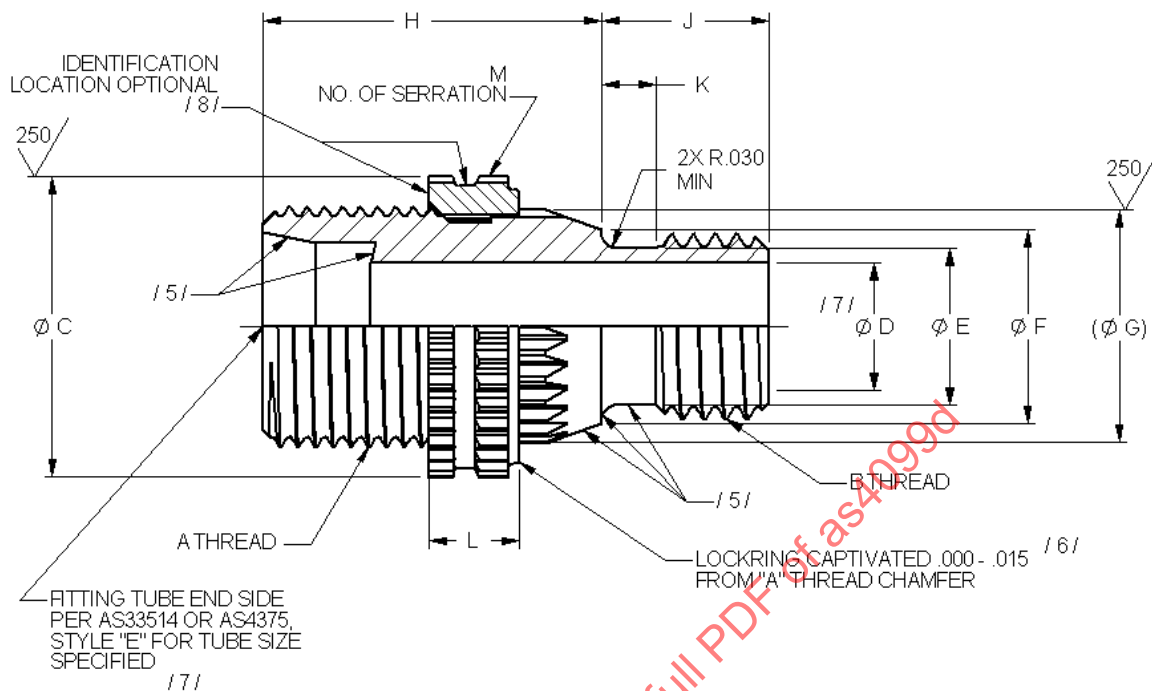


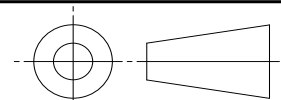
FIGURE 1 - ADAPTER ASSEMBLY

TABLE 1A - DIMENSIONS A-G

BASIC NO. AS4099 /17/ SIZE CODE	(NOMINAL TUBE SIZE)	A THREAD AS8879	B THREAD AS8879	C	D /7/	E +.005 -.002	F MIN	G
02	.125	.3125-24UNJF-3A	.2160-28UNJF-3A	.400	.090-.096	.154	.246	.317
03	.188	.3750-24UNJF-3A	.2500-28UNJF-3A	.468	.122-.128	.186	.278	.349
04	.250	.4375-20UNJF-3A	.3125-24UNJF-3A	.514	.169-.175	.239	.331	.400
05	.312	.5000-20UNJF-3A	.3750-24UNJF-3A	.624	.231-.237	.301	.393	.491
06	.375	.5625-18UNJF-3A	.4375-20UNJF-3A	.700	.294-.300	.364	.456	.544
08	.500	.7500-16UNJF-3A	.5625-18UNJF-3A	.814	.419-.425	.482	.574	.670
10	.625	.8750-14UNJF-3A	.6875-24UNJEF-3A	1.040	.497-.503	.625	.717	.824
12	.750	1.0625-12UNJ-3A	.8125-20UNJEF-3A	1.170	.653-.659	.737	.891	.981
16	1.000	1.3125-12UNJ-3A	1.1250-18UNJEF-3A	1.456	.872-.878	1.000	1.154	1.251
20	1.250	1.6250-12UNJ-3A	1.3125-18UNJEF-3A	1.782	1.090-1.096	1.225	1.379	1.466
24	1.500	1.8750-12UNJ-3A	1.6250-18UNJEF-3A	2.031	1.341-1.347	1.502	1.656	1.768
32	2.000	2.5000-12UNJ-3A	2.1250-16UNJ-3A	2.548	1.810-1.816	2.040	2.194	2.311

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS4099D>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS18280

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

ADAPTER, ASSEMBLY - PORT CONNECTION
RING LOCKED TO FLARELESS TUBE END

SAE AS4099
SHEET 1 OF 3

REV.
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TABLE 1B - DIMENSIONS H-M AND WEIGHTS

BASIC NO. AS4099 /17/ SIZE CODE	H +.010 -.005	J +.000 -.015	K +.010 -.005	L ±.007	M	LB/EA MAX
02	.674	.300	.125	.192	24	.012
03	.721	.355	.125	.192	26	.017
04	.752	.355	.125	.192	30	.022
05	.752	.381	.125	.192	36	.027
06	.789	.395	.125	.210	36	.033
08	.882	.430	.125	.210	40	.052
10	.945	.465	.125	.210	38	.083
12	1.018	.527	.157	.220	40	.111
16	1.018	.564	.157	.220	36	.165
20	1.045	.569	.157	.240	56	.236
24	1.045	.608	.157	.240	81	.285
32	1.086	.730	.157	.240	102	.535

NOTES:

1. MATERIAL:

- a. FITTING: 6AL-4V TITANIUM ALLOY PER AMS4928, AMS4965, OR AMS4967.
- b. LOCKRING: A286 CORROSION RESISTANT STEEL PER AMS5731, AMS5732, AMS5734, AMS5737 OR AMS5853.

2. HEAT TREATMENT:

- a. FITTING: 130 ksi UTS MIN
- b. LOCKRING: 34 TO 40 HRC

3. FINISH:

- a. FITTING: ANODIC TREATMENT PER AMS2488, TYPE 2.
- b. LOCKRING: PASSIVATE PER AMS2700, TYPE 2 or 8.

/4/ PROCUREMENT SPECIFICATION: AS18280 EXCEPT AS SPECIFIED ON THIS STANDARD. COMPONENTS SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST FOR PRI-QPL-AS18280 FOR THIS STANDARD. SEE <http://www.pri.sae.org/QPL/as18280.pdf> FOR CURRENT QPL ONLINE.

/5/ SEALING SURFACE: NO VISIBLE DEFECTS. TO BE PROTECTED FOR SHIPMENT.

/6/ LOCKRING RETAINED ON FITTING BY CONTROLLED INTERFERENCE FIT.

/7/ "D" DIAMETER FOR DASH -04 IS .184-.190 ON AS33514 OR AS4375 ENDS AND REDUCED TO "D" DIAMETER PER THIS STANDARD ON OPPOSITE END.

/8/ IDENTIFICATION:

- a. MARK AT LOCATION(S) SHOWN PER AS478 METHOD 2 OR 15, MANUFACTURER'S NAME, TRADEMARK, OR CAGE CODE.
- b. MARK PER AS478, METHOD 35D, MANUFACTURER'S NAME, TRADEMARK, OR CAGE CODE AND PART NUMBER.

 An SAE International Group	AEROSPACE STANDARD	SAE AS4099 SHEET 2 OF 3	REV. D
	ADAPTER, ASSEMBLY - PORT CONNECTION RING LOCKED TO FLARELESS TUBE END		