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REV.
A

AS5103

FEDERAL SUPPLY CLASS
4730

RATIONALE

TO CORRECT MAX WEIGHT AND UPDATE STANDARD.

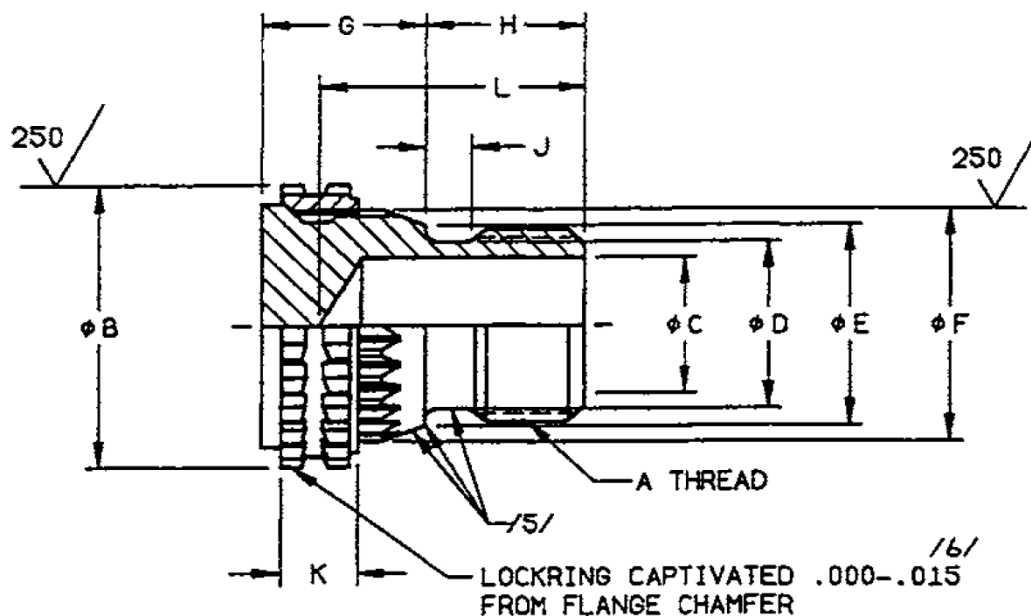


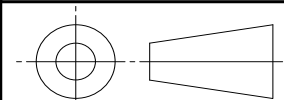
FIGURE 1 - PLUG, ASSEMBLY

TABLE 1A - DIMENSIONS

BASIC NO. AS5103 /15/ SIZE CODE	A THREAD AS8879	B	C	D +.005/- .002	E MIN	(F)
02	.2160-28UNJF-3A	.400	.071- .096	.154	.246	.317
03	.2500-28UNJF-3A	.468	.103- .128	.186	.278	.394
04	.3125-24UNJF-3A	.514	.165- .175	.239	.331	.400
05	.3750-24UNJF-3A	.624	.212- .237	.301	.393	.491
06	.4375-20UNJF-3A	.700	.275- .300	.364	.456	.544
08	.5625-18UNJF-3A	.814	.392- .408	.482	.574	.670
10	.6875-24UNJEF-3A	1.040	.478- .503	.625	.717	.824
12	.8125-20UNJEF-3A	1.170	.604- .614	.737	.891	.981
14	.9375-20UNJEF-3A	1.341	.714- .739	.868	1.022	1.118
16	1.1250-18UNJEF-3A	1.456	.841- .851	1.000	1.154	1.251
20	1.3125-18UNJEF-3A	1.782	1.037-1.062	1.225	1.379	1.466
24	1.6250-18UNJEF-3A	2.031	1.277-1.302	1.502	1.656	1.768
32	2.1250-16UNJ-3A	2.548	1.746-1.771	2.040	2.194	2.311

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS85720



AEROSPACE STANDARD

(R) FITTING ASSEMBLY, PLUG,
RING LOCKED PORT CONNECTION,
4000 PSI AND 5000 PSI /8/

AS5103
SHEET 1 OF 3

REV.
A

Documents

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TABLE 1B - DIMENSIONS AND WEIGHTS

BASIC NO. AS5103 /15/ SIZE CODE	G +.010/- .005	H 0/- .015	J +.010/- .005	K ±.007	L MAX	LB/EA MAX
02	.418	.300	.125	.192	.61	.010
03	.418	.355	.125	.192	.67	.015
04	.418	.355	.125	.192	.67	.020
05	.426	.381	.125	.192	.70	.025
06	.459	.395	.125	.210	.75	.030
08	.459	.430	.125	.210	.78	.040
10	.459	.465	.125	.210	.82	.070
12	.459	.527	.157	.220	.88	.090
14	.469	.572	.157	.220	.88	.115
16	.469	.564	.157	.220	.87	.145
20	.476	.569	.157	.240	.85	.210
24	.497	.608	.157	.240	.90	.310
32	.637	.730	.157	.240	.90	.740

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 (AMS-H-81200)
 - b. LOCKRING: 34 TO 40 HRC (AMS-H-6875)
3. FINISH:
 - a. FITTING: ANODIC TREATMENT PER AMS2488, TYPE 2
 - b. LOCKRING: PASSIVATE PER AMS2700, TYPE 2 OR 8
- /4/ PROCUREMENT SPECIFICATION: AS85720 WHERE APPLICABLE AND AS SPECIFIED ON THIS STANDARD. THIS PART SHALL BE QUALIFIED TO THE PROCUREMENT SPECIFICATION IN A COMPLETE ASSEMBLY. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENTS SHEET OR SIMILAR MEANS.
- /5/ SEALING SURFACE: NO VISIBLE DEFECTS. TO BE PROTECTED FOR SHIPMENT.
- /6/ LOCKRING RETAINED ON FITTING BY CONTROLLED INTERFERENCE FIT.
7. IDENTIFICATION PER AS478 CLASS 35D, NAME, TRADEMARK OR CAGE CODE AND PART NUMBER.
- /8/ WORKING PRESSURE: THIS PART IS DESIGNED FOR USE IN HYDRAULIC SYSTEMS COMPATIBLE WITH TITANIUM.
 - a. SIZE -04, -06, -08, -10, -12, AND -16: 5000 PSI (20 000 PSI BURST PRESSURE) SYSTEMS
 - b. ALL OTHER SIZES: 4000 PSI (16 000 PSI BURST PRESSURE) SYSTEMS
9. ADAPTERS TO BE INSTALLED PER AS5104 INTO BOSS CAVITIES PER AS1300.
10. INTERPRETATION OF DRAWING PER ARP4296.
11. SURFACE TEXTURE: SYMBOLS PER ANSI Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 MICROINCHES Ra AND SEALING SURFACE TO BE 63 MICROINCHES Ra.
12. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
13. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994

	AEROSPACE STANDARD	AS5103 SHEET 2 OF 3	REV. A
	(R) FITTING ASSEMBLY, PLUG, RING LOCKED PORT CONNECTION, 4000 PSI AND 5000 PSI /8/		


Documents

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