

REV.
A

SAE AS4696

FEDERAL SUPPLY CLASS
4730

RATIONALE

OPTIONS FOR REDUCER DESIGN AND FOR 1500 PSI AND 4000 PSI SYSTEM APPLICATION HAVE BEEN DELETED. PROCUREMENT NOTE /4/ HAS BEEN CHANGED TO SPECIFY PRI-QPL-AS1576, UPDATES.

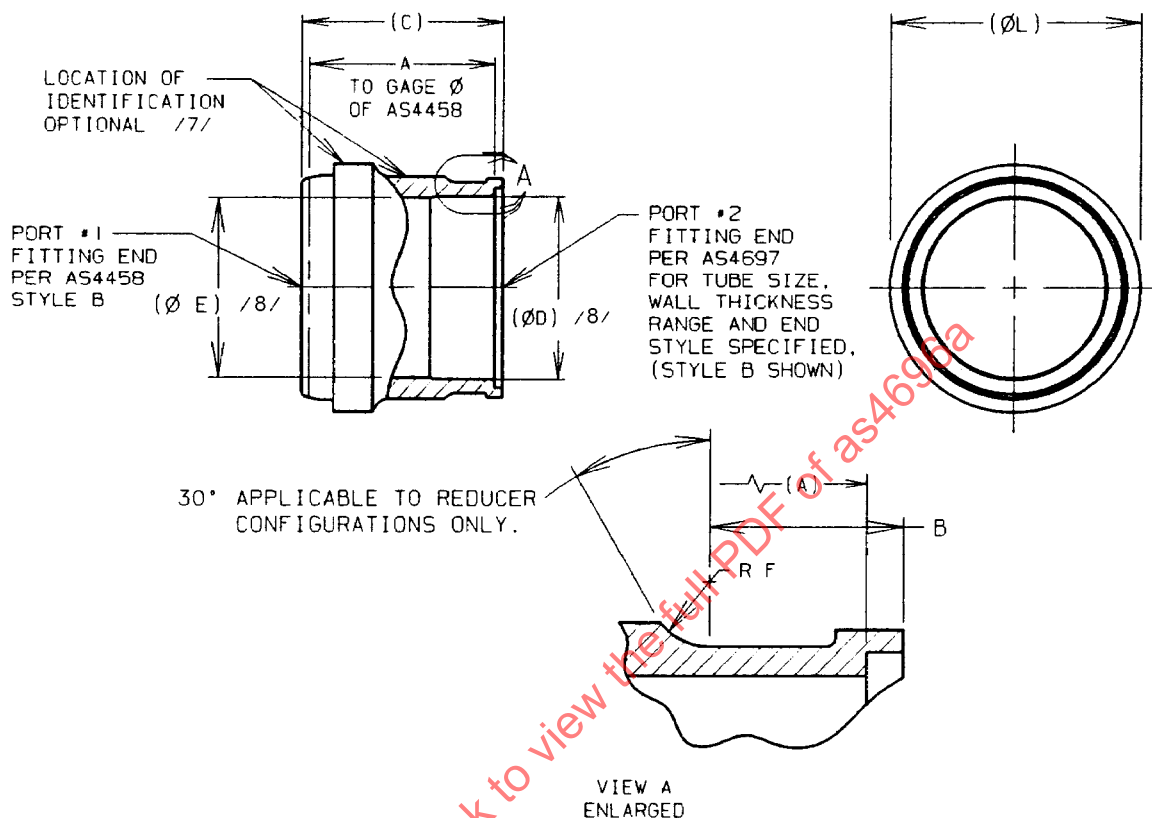
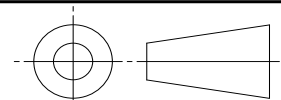


FIGURE 1 - SLEEVE, TUBE END

INACTIVE IN PART /16/, /17/

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS4696A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS1576

SAE Aerospace
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AEROSPACE STANDARD

FITTING, SLEEVE, FLARELESS,
NONREDUCER AND REDUCER,
SHORT ACORN TO WELD TUBE END

SAE AS4696
SHEET 1 OF 4

REV.
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TABLE 1A - DIMENSIONS AND WEIGHTS, ACTIVE PARTS

BASIC NO. AS4696 /17/ SIZE AND TUBE WALL CODES	(RANGE OF NOMINAL TUBE WALLS FOR PORT #2) /17/	(NOMINAL TUBE SIZE) PORT #1	(NOMINAL TUBE SIZE) PORT #2	PORT #2 STYLE /8/	A	B ±.010	C
0404-018	.016-.018	.250	.250	B	.604	.100	.686
0505-022	.019-.022	.312	.312	B	.602	.100	.684
0606-022	.019-.022	.375	.375	B	.594	.100	.676
0808-028	.023-.028	.500	.500	B	.646	.135	.744
1010-032	.029-.032	.625	.625	B	.770	.165	.868
1212-043	.033-.043	.750	.750	B	.802	.185	.904
1616-055	.044-.055	1.000	1.000	A	.908	.250	1.016
2020-065	.056-.065	1.250	1.250	B	1.074	.250	1.186

TABLE 1A - DIMENSIONS AND WEIGHTS, ACTIVE PARTS (CONTINUED)

BASIC NO. AS4696 /17/ SIZE AND TUBE WALL CODES	D /8/	E /8/	F	L	LB/EA APPROX REF CRES	LB/EA APPROX REF TI
0404-018	.208	.176	.050	.371	.0104	.00577
0505-022	.262	.232	.050	.434	.0142	.00786
0606-022	.325	.294	.050	.490	.0177	.00980
0808-028	.438	.412	.060	.670	.0313	.0173
1010-032	.555	.498	.060	.786	.0493	.0273
1212-043	.658	.648	.090	.960	.0596	.0330
1616-055	.884	-	.090	1.210	.0901	.0499
2020-065	1.114	1.090	.125	1.470	.163	.0902

TABLE 2A - DIMENSIONS AND WEIGHTS, INACTIVE PARTS

BASIC NO. AS4696 /17/ SIZE AND TUBE WALL CODES	(RANGE OF NOMINAL TUBE WALLS FOR PORT #2) /17/	(NOMINAL TUBE SIZE) PORT #1	(NOMINAL TUBE SIZE) PORT #2	PORT #2 STYLE /8/	A	B ±.010	C
0604-018 ^{/15/}	.016-.018	.375	.250	A	.594	.100	.676
0808-022 ^{/16/}	.019-.022	.500	.500	B	.646	.135	.743
1008-022 ^{/15/}	.019-.022	.625	.500	A	.740	.135	.838
1010-022 ^{/16/}	.019-.022	.625	.625	B	.770	.165	.868
1010-043 ^{/16/}	.033-.043	.625	.625	B	.770	.165	.868
1212-022 ^{/16/}	.019-.022	.750	.750	B	.802	.185	.904
1616-022 ^{/16/}	.019-.022	1.000	1.000	B	.908	.250	1.016

TABLE 2B - DIMENSIONS AND WEIGHTS, INACTIVE PARTS (CONTINUED)

BASIC NO. AS4696 /17/ SIZE AND TUBE WALL CODES	D /8/	E /8/	F	L	LB/EA APPROX REF CRES	LB/EA APPROX REF TI
0604-018 ^{/15/}	.208	-	.050	.490	.0177	.00980
0808-022 ^{/16/}	.450	.412	.060	.670	.0313	.0173
1008-022 ^{/15/}	.450	-	.060	.786	.0493	.0273
1010-022 ^{/16/}	.575	.498	.060	.786	.0493	.0273
1010-043 ^{/16/}	.533	.498	.060	.786	.0493	.0273
1212-022 ^{/16/}	.700	.648	.090	.960	.0596	.0330
1616-022 ^{/16/}	.950	.900	.090	1.210	.0901	.0499

NOTES:

/1/ MATERIAL:

- a. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS4928
- b. CODE LETTER V - TYPE 15-5PH CORROSION RESISTANT STEEL BAR PER AMS5659

2. HEAT TREATMENT:

- a. MATERIAL CODE LETTER T - NONE
- b. MATERIAL CODE LETTER V - HEAT TREAT TO CONDITION H1075 PER AMS2759/3

3. FINISH: ALL MATERIAL CODES - NONE.

/4/ PROCUREMENT SPECIFICATION: AS1576 UNLESS OTHERWISE SPECIFIED ON THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST PRI-QPL-AS1576 FOR THIS STANDARD. SEE <http://www.eauditnet.com> FOR CURRENT QPL ONLINE.

NOTE: PRI-QPL LIMITATION TO 3000 PSI - REDUCER AND 1500 PSI / 4000 PSI OPTIONS PER /16/ AND /17/ OF THIS STANDARD ARE INACTIVE FOR NEW DESIGN AND CANNOT BE COVERED BY PRI-QPL-AS1576. USERS OF STANDARDS FOR THESE APPLICATIONS ARE ADVISED TO CONTROL SOURCE APPROVAL BY STANDARD PAGE SUPPLEMENT OR SIMILAR MEANS.

5. CLEANING: MATERIAL CODE LETTER T AND V - CLEAN AND NITRIC-HYDROFLUORIC ETCH PER PROCUREMENT SPECIFICATION.

6. PACKAGING: INDIVIDUALLY PACKAGE IN CLEAN CONTAINER WITH IDENTIFICATION PER PROCUREMENT SPECIFICATION.

/7/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D OR METHOD 7A3, 15A3, OR 15B, MANUFACTURER'S IDENTIFICATION, CAGE CODE NUMBER OR TRADEMARK, BASIC PART NUMBER, MATERIAL CODE LETTER AND TUBE WALL CODE.

/8/ IF PORT #2 IS STYLE A, ϕ D WILL EXTEND THROUGHOUT THE PART AND ϕ E WILL NOT APPLY.

9. INTERPRETATION OF DRAWING PER ARP4296.

10. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 μ in Ra.