

REV.
C

SAE AS1581

FEDERAL SUPPLY CLASS
4730

RATIONALE

PROCUREMENT NOTE /6/ HAS BEEN CHANGED TO SPECIFY PRI-QPL-AS1576, UPDATES

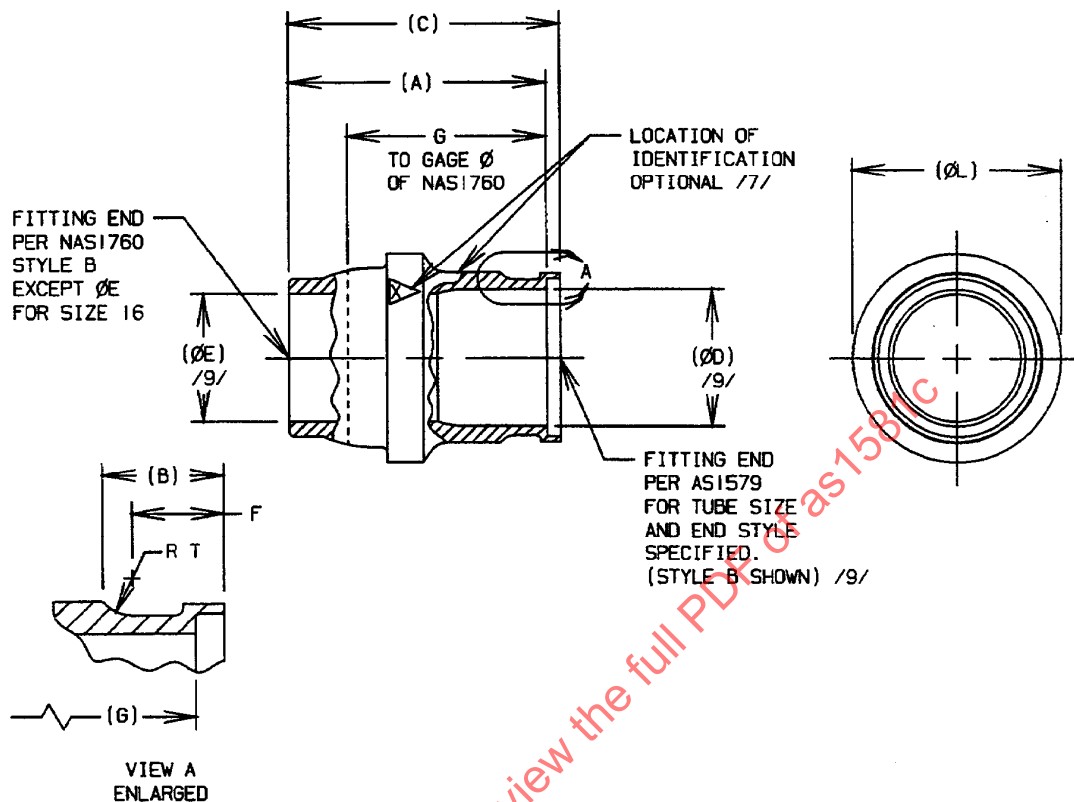


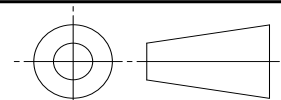
FIGURE 1 - FITTING, SLEEVE

TABLE 1 - DIMENSIONS

BASIC NO. AS1581 /17/ SIZE CODE	(NOMINAL TUBE SIZE)	(NOMINAL TUBE WALL)	PORT #2 STYLE	A /10/	B /10/	C	D /9/	E /9/	F
04	.250	.016	B	.759	.152	.789	.212	.176	.111
05	.312	.020	B	.759	.152	.789	.266	.232	.110
06	.375	.020	B	.759	.152	.789	.329	.294	.111
08	.500	.026	B	.835	.194	.875	.442	.412	.147
10	.625	.033	B	.971	.226	1.011	.553	.498	.175
12	.750	.039	B	1.031	.274	1.081	.666	.648	.205
16	1.000	.052	A	1.205	.343	1.265	.890	-	.274
20	1.250	.065	B	1.375	.343	1.435	1.114	1.090	.273

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS1581C>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /6/ AS1576

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING, SLEEVE, FLARELESS ACORN
TO INTEGRAL WELD RING, 3000 PSI

SAE AS1581
SHEET 1 OF 3

REV.
C

TABLE 1A - DIMENSIONS AND WEIGHTS

BASIC NO. AS1581 /17/ SIZE CODE	G	L	T	LB/100 APPROX REF CRES	LB/100 APPROX REF TI
04	.600	.371	.050	1.15	.635
05	.598	.434	.050	1.56	.863
06	.592	.490	.050	1.84	1.02
08	.642	.670	.060	3.03	1.67
10	.766	.786	.060	5.24	2.89
12	.800	.960	.090	6.42	3.54
16	.904	1.210	.090	10.1	5.57
20	1.072	1.470	.090	18.0	9.93

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 H 1075 PER AMS2759/3.

3. FINISH: NONE.

/4/ CLEANING:

- a. NO SUFFIX CODE LETTER IN PART NUMBER - CLEAN BY ANY SUITABLE METHOD PER PROCUREMENT SPECIFICATION.
- b. SUFFIX CODE LETTER "C" IN PART NUMBER - HOT ALKALINE CLEAN PER PROCUREMENT SPECIFICATION.
- c. SUFFIX CODE LETTER "E" IN PART NUMBER FOR TITANIUM ALLOY PARTS ONLY - NITRIC-HYDROFLUORIC ACID ETCH PER PROCUREMENT SPECIFICATION.

5. PACKAGING: PER PROCUREMENT SPECIFICATION.

/6/ 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.

/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 FOR SIZE 08 AND LARGER, LETTERS "AS" FOR SIZE 06 AND SMALLER AND MATERIAL CODE LETTER.

8. THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURE OF 3000 psi WHEN ORBITAL ARC WELDED TO TITANIUM ALLOY OR CORROSION RESISTANT STEEL TUBING.

/9/ IF PORT #2 IS STYLE A, ϕ D WILL EXTEND THROUGHOUT THE PART AND ϕ E WILL NOT APPLY.

 An SAE International Group	AEROSPACE STANDARD	SAE AS1581 SHEET 2 OF 3	REV. C
	FITTING, SLEEVE, FLARELESS ACORN TO INTEGRAL WELD RING, 3000 PSI		