

REV.
E

AS1581™

RATIONALE

PROCUREMENT SPECIFICATION NOTE UPDATED TO CURRENT QPL VERBIAGE. QPL REQUIREMENT DATE REMOVED, AS THE REQUIRED DATE HAS NOW PASSED. NOTE 10 UPDATED TO REFLECT CURRENT HISTORICAL STATUS OF THIS STANDARD. REFERENCED STANDARD ARP4296 UPDATED TO CURRENT AS4296. INVENTORY DISPOSITION NOTE 18 ADDED.

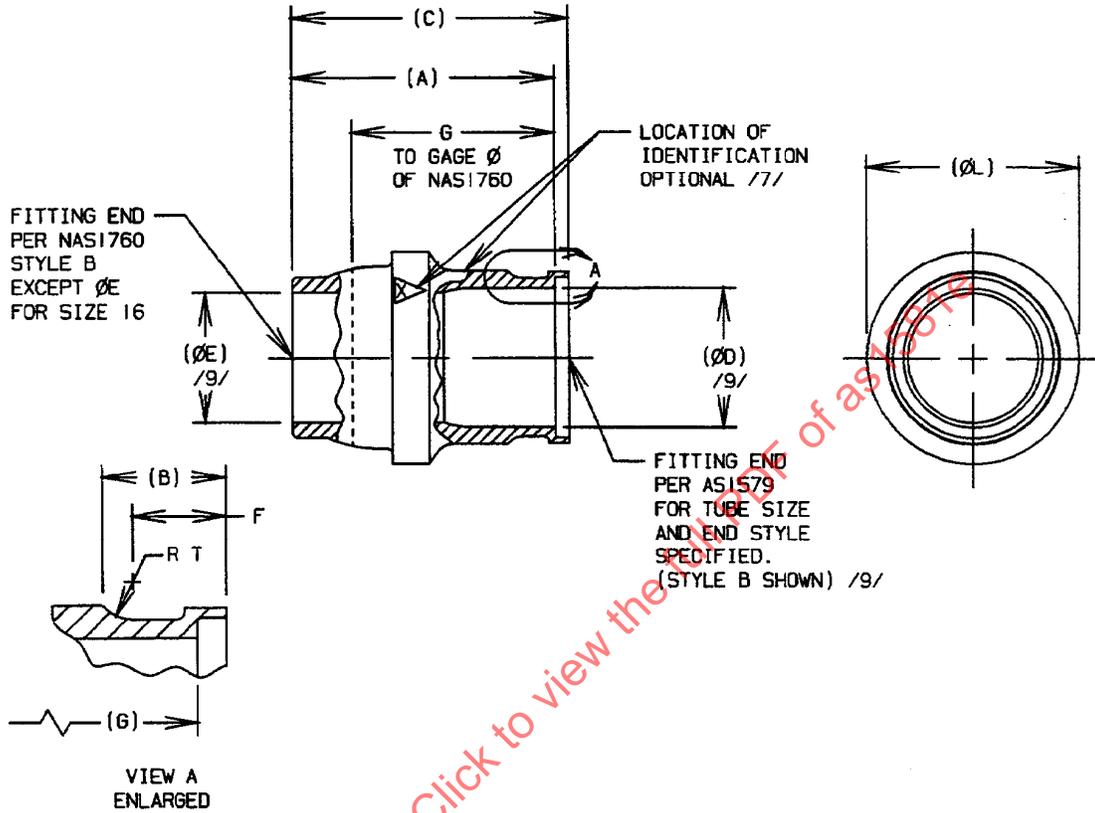
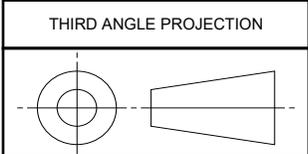


FIGURE 1 - FITTING, SLEEVE

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<https://www.sae.org/standards/content/AS1581E>



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS1576 /6/



AEROSPACE STANDARD

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

AS1581™
SHEET 1 OF 3

REV.
E

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ISSUED 1980-02 REAFFIRMED 2007-11 REVISED 2023-06

TABLE 1 - DIMENSIONS A-F

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

TABLE 1A - DIMENSIONS G-T 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.

	AEROSPACE STANDARD	AS1581™ SHEET 2 OF 3	REV. E
	FITTING, SLEEVE, FLARELESS ACORN TO INTEGRAL WELD RING, 3000 PSI		