

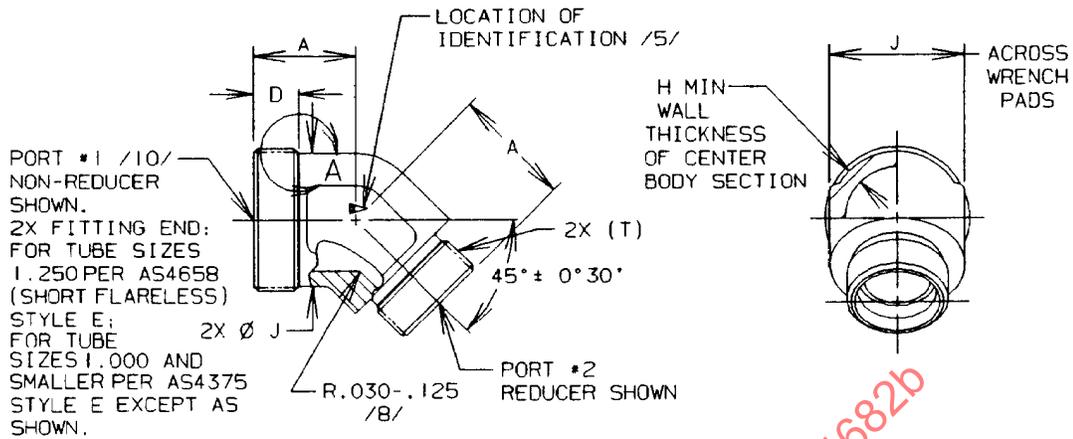
REV. B

SAE AS4682

FEDERAL SUPPLY CLASS
4730

RATIONALE

CANCELED MILITARY STANDARD NUMBERS HAVE BEEN REPLACED. PRI-QPL NOTE HAS BEEN UPDATED AND CADMIUM WARNING NOTE ADDED. OTHER UPDATES.



PORT #1 /10/
NON-REDUCER
SHOWN.
2X FITTING END:
FOR TUBE SIZES
1.250 PER AS4658
(SHORT FLARELESS)
STYLE E:
FOR TUBE
SIZES 1.000 AND
SMALLER PER AS4375
STYLE E EXCEPT AS
SHOWN.

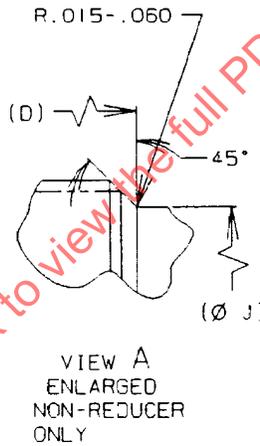


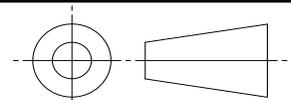
FIGURE 1 - FITTING, ELBOW, 45°, REDUCER

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. AS4682 /9/ /18/ SIZE CODE	D	H	J + .005/- .020	LB/EA APPROX REF ALUM	LB/EA APPROX REF CRES	LB/EA APPROX REF TI
20	.517	.124	1.375	.234	.679	.394
24	.614	.156	1.688	.347	1.005	.584

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS4682B>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS18280

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD
(R) FITTING, ELBOW, 45°, REDUCER, FLARELESS
AND SHORT FLARELESS

SAE AS4682
SHEET 1 OF 4

REV. B

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ISSUED 1992-07 REAFFIRMED 2004-07 REVISED 2012-07

TABLE 2 - LEG LENGTH A

SIZE OF PORT	FORGING SIZE /9/	
	20	24
02	1.148	1.242
03	1.199	1.289
04	1.226	1.320
05	1.226	1.320
06	1.243	1.336
08	1.335	1.429
10	1.398	1.429
12	1.461	1.555
14	1.461	1.555
16	1.461	1.555
20	1.236	1.330
24	--	1.330

TABLE 3 - TUBE SIZE AND CORRESPONDING THREADS

TUBE SIZE	(NOMINAL TUBE SIZE)	J THREAD PER AS8879 CLASS 3A
02	.125	.3125-24UNJF
03	.188	.3750-24UNJF
04	.250	.4375-20UNJF
05	.312	.5000-20UNJF
06	.375	.5625-18UNJF
08	.500	.7500-16UNJF
10	.625	.8750-14UNJF
12	.750	1.0625-12UNJ
14	.875	1.1875-12UNJ
16	1.000	1.3125-12UNJ
20	1.250	1.5625-12UNJ
24	1.500	1.8125-12UNJ

NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

/1/ MATERIAL:

- a. CODE LETTER T: TYPE 6AL-4V TITANIUM ALLOY PER AMS4928
- b. CODE LETTER V: TYPE 15-5PH CORROSION RESISTANT STEEL PER AMS5659
- c. CODE LETTER W: TYPE 7075-T73 ALUMINUM ALLOY FORGING PER AMS4141 OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124

2. HEAT TREATMENT:

- a. MATERIAL CODE LETTER T: NONE
- b. MATERIAL CODE LETTER V: HEAT TREAT TO CONDITION H-1075 PER AMS2759/3
- c. MATERIAL CODE LETTER W: NONE

/3/ FINISH:

- a. MATERIAL CODE LETTER T: FLUORIDE PHOSPHATE CONVERSION COAT PER AMS2486
- b. MATERIAL CODE LETTER V:
 - (1) V CODE PARTS TO BE PASSIVATED ONLY WILL HAVE NO FINISH CODE LETTER AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE: PASSIVATE PER AMS2700 TYPE 2 OR 8
 - (2) V CODE PARTS TO BE CADMIUM PLATED ONLY WILL HAVE THE FINISH CODE LETTER "P" AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE: CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2.
- c. MATERIAL CODE LETTER W: ANODIZE PER AMS2472 OR PER MIL-A-8625, TYPE II, CLASS 2 DYED BROWN SIMILAR TO COLOR 10080 OF FED-STD-595

/4/ PROCUREMENT SPECIFICATION: AS18280 UNLESS SPECIFIED OTHERWISE 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 (QPL) PRI-QPL-AS18280 FOR THIS STANDARD. SEE <http://www.eAuditNet.com> FOR CURRENT QPL ONLINE.

/5/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D OR METHOD 7A3, 15A3, OR 15B. MANUFACTURER'S NAME, TRADEMARK OR CAGE CODE, BASIC PART NUMBER, AND MATERIAL CODE LETTER.

6. THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH OPERATING PRESSURES AS FOLLOWS:

- a. SIZES -20 AND -24 TITANIUM ALLOY AND CORROSION RESISTANT STEEL AT 3000 psi
 - b. SIZES -20 AND -24 ALUMINUM ALLOY AT 600 psi
- LARGEST PORT DETERMINES PRESSURE RATING.

7. WHEN MACHINED FROM BAR OR OVERSIZED FORGINGS, THE CENTER BODY SECTION SHALL CONFORM TO AS1376, TABLE 10.

/8/ RADIUS APPLICABLE FOR TITANIUM PARTS ONLY.

/9/ PORT #1 DETERMINES FORGING SIZE. MINIMUM FORGING SIZE IS -20.

/10/ PORT #1 IS LARGER THAN PORT #2.

11. A CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT, INCLUDING TECHNICAL REVISIONS. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS, NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.

 An SAE International Group	AEROSPACE STANDARD	SAE AS4682 SHEET 3 OF 4	REV. B
	(R) FITTING, ELBOW, 45°, REDUCER, FLARELESS AND SHORT FLARELESS		