

REV.
B

AS4683

FEDERAL SUPPLY CLASS
4730

RATIONALE

THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

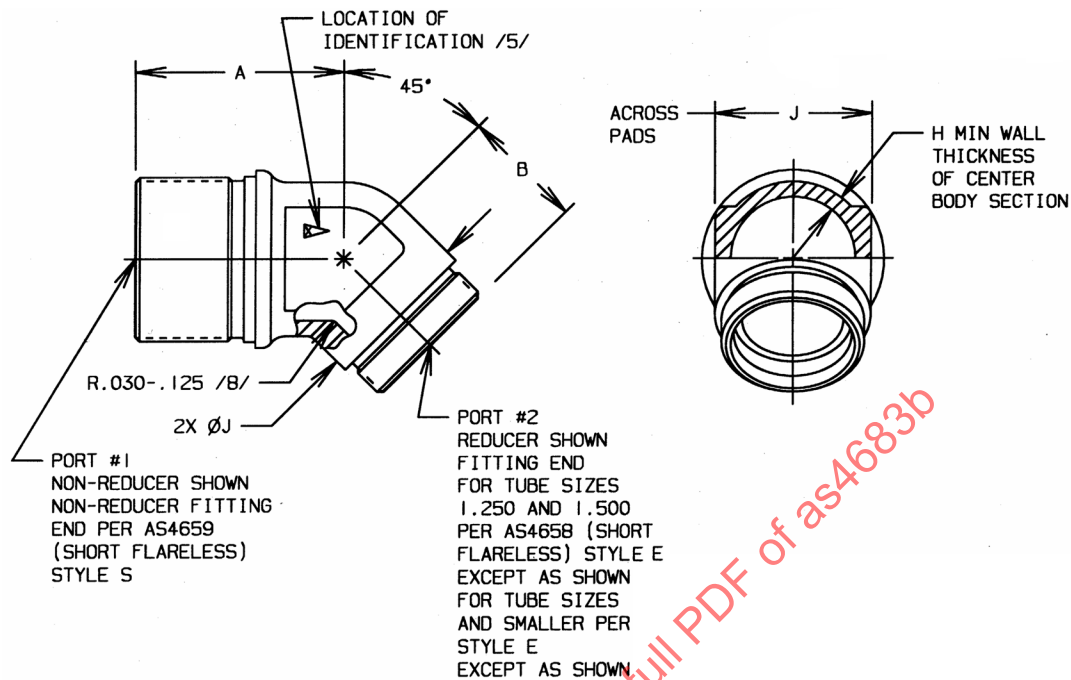


FIGURE 1 - FITTING, ELBOW, 45°, REDUCER

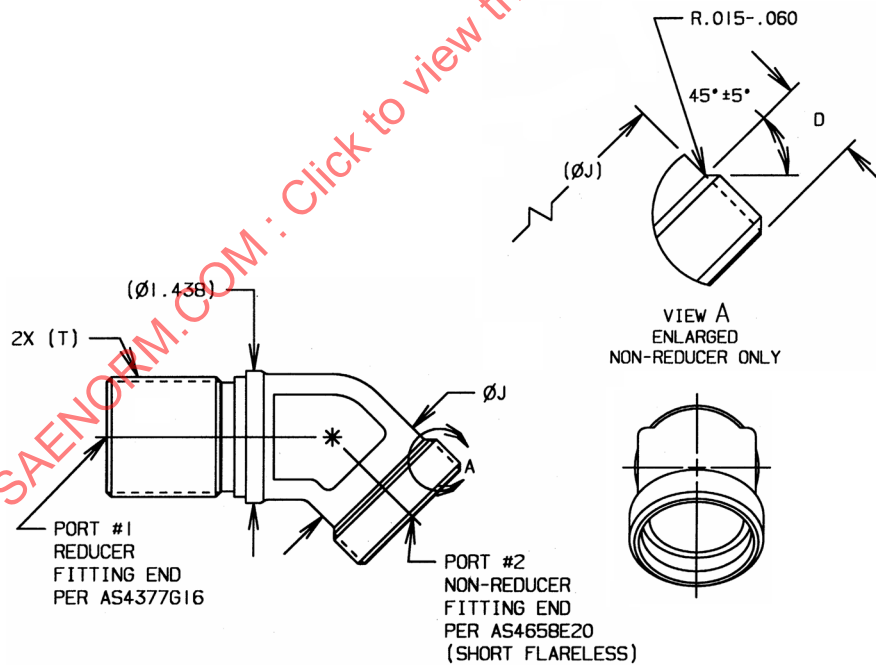
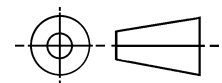


FIGURE 2A - FITTING, ELBOW, 45°, SIZE 16
BULKHEAD REDUCER TO SIZE 20 SHORT END

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS18280

SAE Aerospace
An SAE International Group

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

AS4683
SHEET 1 OF 6

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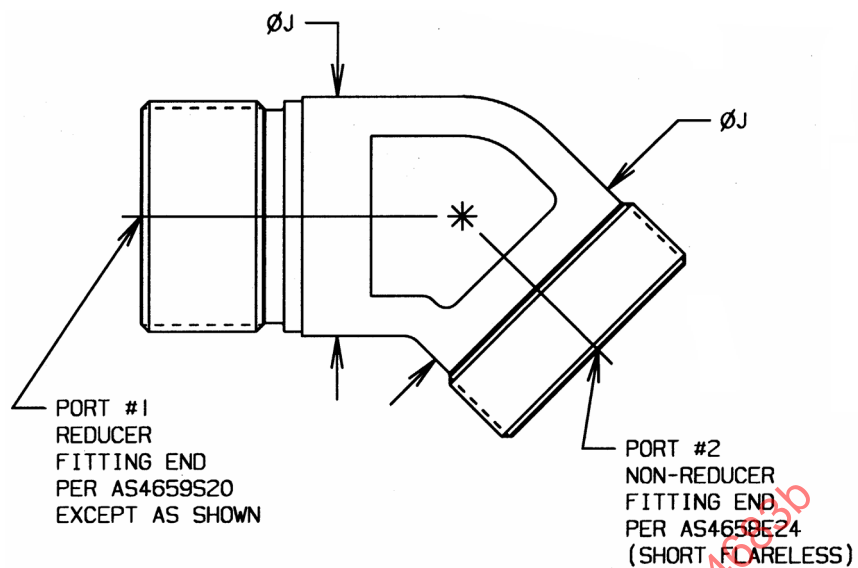


FIGURE 2B - FITTING, ELBOW, 45°, SIZE 20
BULKHEAD REDUCER TO SIZE 24 SHORT END

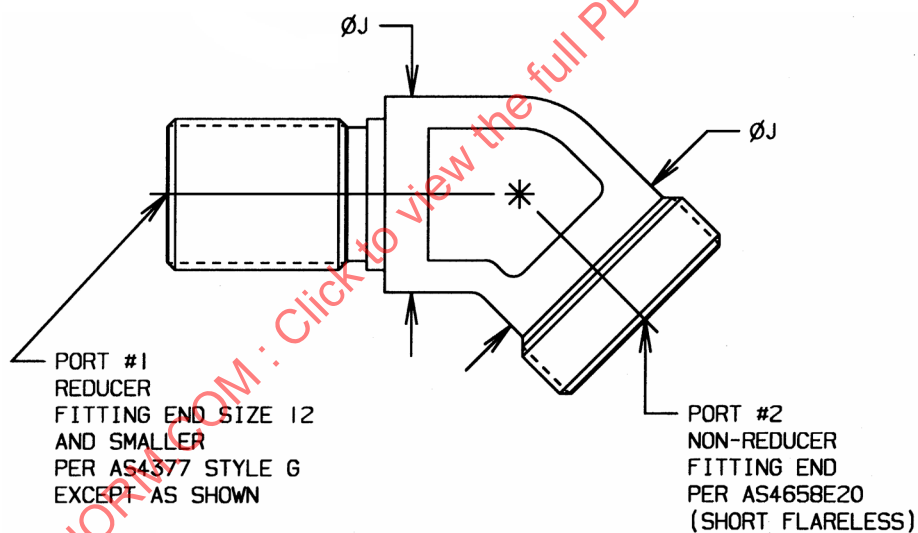


FIGURE 2C - FITTING, ELBOW, 45°, SIZE 12
AND SMALLER BULKHEAD REDUCER TO SIZE 20 SHORT END

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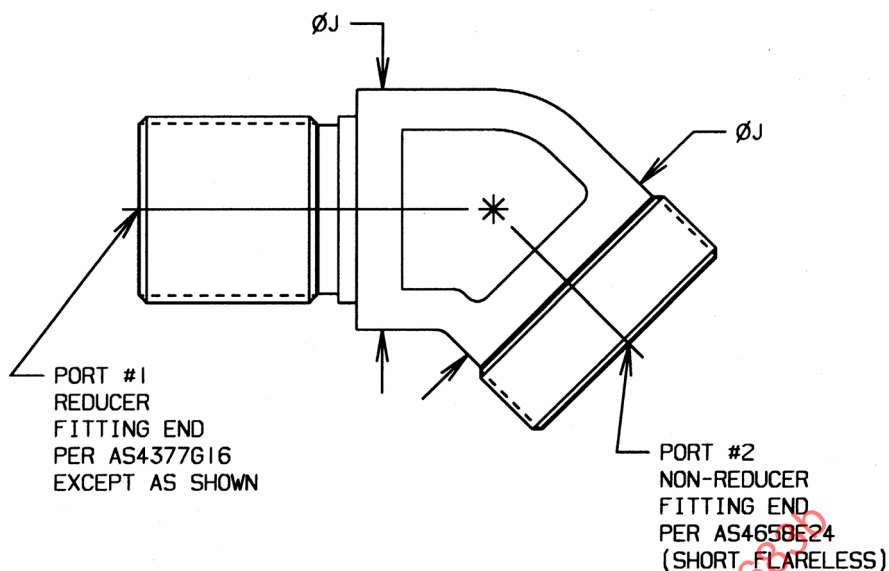


FIGURE 2D - FITTING, ELBOW, 45°, SIZE 16
BULKHEAD REDUCER TO SIZE 24 SHORT END

TABLE 1 - DIMENSIONS AND WEIGHTS /10/

BASIC NO. AS4683 /9/ /19/ SIZE CODE	D	H	J +.005/- .020	LB/EA APPROX REF ALUM	LB/EA APPROX REF STEEL	LB/EA APPROX REF Ti
20	.517	.124	1.375	.315	.874	.500
24	.614	.156	1.688	.427	1.18	.677

TABLE 2 - LEG LENGTH A /11/

SIZE OF PORT	FORGING SIZE /9/ 20	FORGING SIZE /9/ 24
02	1.852	1.867
03	1.899	1.914
04	1.962	1.977
05	1.982	2.023
06	2.008	2.195
08	2.180	2.336
10	2.321	2.445
12	2.430	2.445
14	2.430	2.445
16	2.430	2.445
20	2.217	2.233
24	-	2.233

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TABLE 3 - LEG LENGTH B /11/

SIZE OF PORT	FORGING SIZE /9/ 20	FORGING SIZE /9/ 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	1.338	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 4 - TUBE SIZE AND CORRESPONDING THREADS

SIZE OF PORT	(NOMINAL TUBE SIZE)	T 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:

/1/ MATERIAL:

- a. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY FORGING OR BAR PER AMS 4928.
- b. CODE LETTER V - TYPE 15-5PH CORROSION RESISTANT STEEL FORGING OR BAR PER AMS 5659.
- c. CODE LETTER W - TYPE 7075-T73 ALUMINUM ALLOY FORGING PER AMS 4141 OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124 OR 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9.

2. HEAT TREATMENT:

- a. MATERIAL CODE LETTER T - NONE.
- b. MATERIAL CODE LETTER V - HEAT TREAT TO CONDITION H-1075 PER AMS 2759/3.
- c. MATERIAL CODE LETTER W - ELECTRICAL CONDUCTIVITY AND HARDNESS PER PROCUREMENT SPECIFICATION.