

AS4684

FEDERAL SUPPLY CLASS
4730

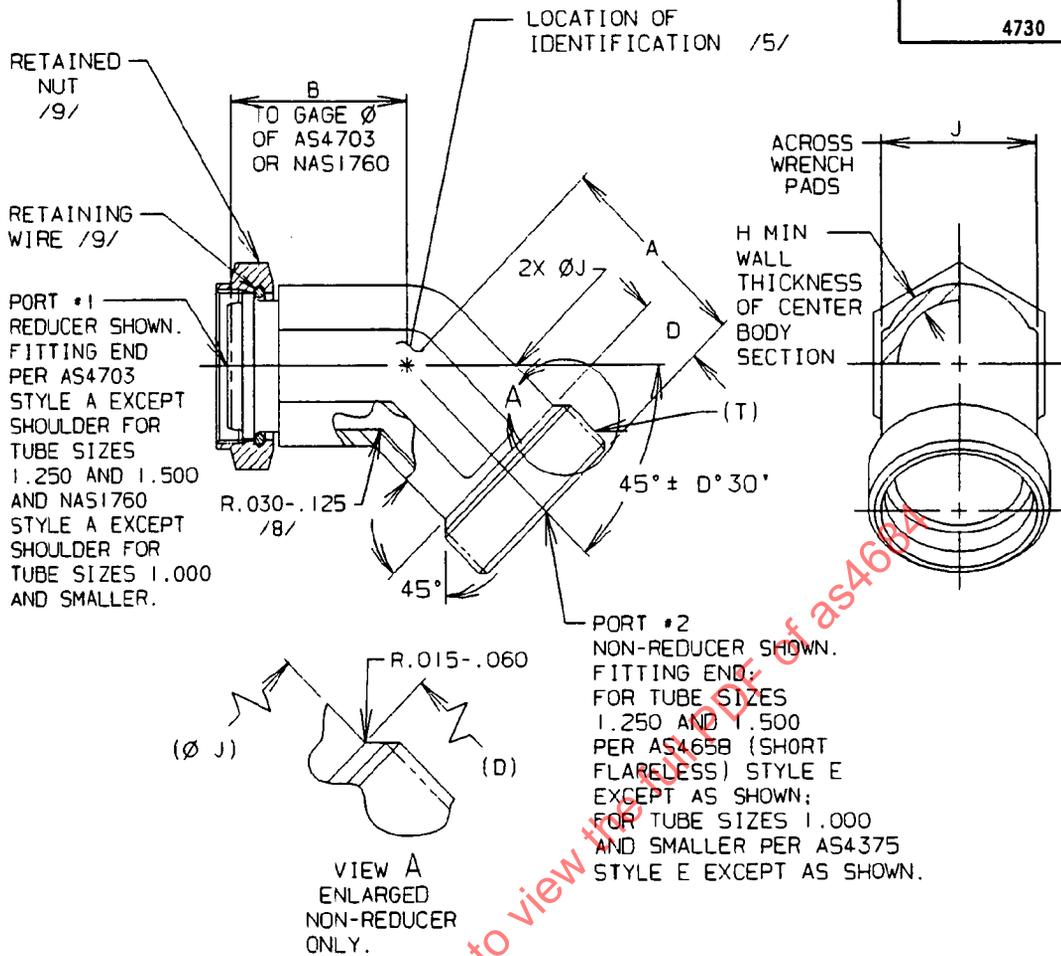


FIGURE 1 - ELBOW ASSEMBLY, 45°

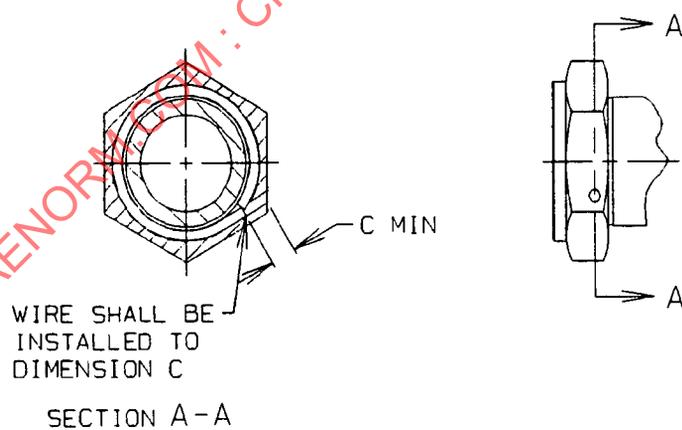
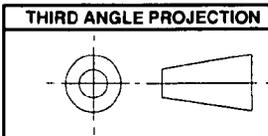


FIGURE 2 - INSTALLATION, RETAINED NUT AND RETAINING WIRE



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AEROSPACE STANDARD

ELBOW ASSEMBLY, 45°,
REDUCER, RETAINED NUT,
FLARELESS AND SHORT FLARELESS

AS4684

SHEET 1 OF 4

ISSUED 1992-07-15 REVISED

AS4684

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO.					LB/EA	LB/EA	LB/EA
AS4684					MAX	MAX	MAX
/10/ /16/	J				ALUM	CRES	TI
SIZE CODE	C	D	H	+ .005/- .020			
20	.155	.517	.124	1.375	.268	.779	.451
24	.180	.614	.156	1.688	.381	1.098	.636

TABLE 2 - LEG LENGTH A

SIZE OF PORT #2	FORGING SIZE /10/ 20	FORGING SIZE /10/ 24
04	.876	.928
05	.876	.928
06	.892	.944
08	.985	1.037
10	1.048	1.100
12	1.111	1.163
16	1.111	1.163
20	1.053	.956
24	--	1.105

TABLE 3 - LEG LENGTH B

SIZE OF PORT #1	FORGING SIZE /10/ 20	FORGING SIZE /10/ 24
04	.853	.950
05	.905	.957
06	.966	1.018
08	1.063	1.115
10	1.142	1.194
12	1.131	1.183
16	1.179	1.231
20	1.055	1.107
24	--	1.135

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TABLE 4 - TUBE SIZE AND CORRESPONDING THREADS

PORT SIZE	(NOMINAL TUBE SIZE)	T THREAD PER MIL-S-8879
4	.250	.4375-20UNJF
5	.312	.5000-20UNJF
6	.375	.5625-18UNJF
8	.500	.7500-16UNJF
10	.625	.8750-12UNJF
12	.750	1.0625-12UNJ
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:

- (1) BODY: TYPE 6AL-4V TITANIUM ALLOY PER AMS 4928
- (2) NUT: CODE LETTER T OF AS4702 OR AS1790 REFERENCE (TYPE 6AL-4V TITANIUM ALLOY)
- (3) WIRE: PER AS4701 OR AS1791 REFERENCE (CLASS 302 OR 305 CORROSION RESISTANT STEEL)

b. CODE LETTER V:

- (1) BODY: TYPE 15-5PH CORROSION RESISTANT STEEL PER AMS 5659
- (2) NUT: CODE LETTER V OF AS4702 OR AS1790 REFERENCE (TYPE 15-5PH CORROSION RESISTANT STEEL)
- (3) WIRE: PER AS4701 OR AS1791 REFERENCE (CLASS 302 OR 305 CORROSION RESISTANT STEEL)

c. CODE LETTER W:

- (1) BODY: TYPE 7075-T73 ALUMINUM ALLOY FORGING PER AMS 4141 OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124
- (2) NUT: CODE LETTER W OF AS4702 OR AS1790 REFERENCE (TYPE 7075-T73 ALUMINUM ALLOY)
- (3) WIRE: PER AS4701 OR AS1791 REFERENCE (CLASS 302 OR 305 CORROSION RESISTANT STEEL)

2. HEAT TREAT:

a. MATERIAL CODE LETTER T:

- (1) BODY, NUT, AND WIRE: NONE

b. MATERIAL CODE LETTER V:

- (1) BODY: HEAT TREAT TO CONDITION H-1075 PER AMS 2759/3
- (2) NUT: MATERIAL CODE LETTER V OF AS4702 OR AS1790 REFERENCE (HEAT TREAT TO CONDITION H-1075)
- (3) WIRE: NONE

c. MATERIAL CODE LETTER W:

- (1) BODY, NUT, AND WIRE: NONE

/3/ FINISH:

a. MATERIAL CODE LETTER T:

- (1) BODY: FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486
- (2) NUT: CODE LETTER T OF AS4702 OR AS1790 WITH SUFFIX N REFERENCE (FLUORIDE PHOSPHATE CONVERSION COAT AND COAT WITH DRY LUBRICANT ON ID)
- (3) WIRE: PER AS4701 OR AS1791 REFERENCE (PASSIVATE AND COAT WITH DRY LUBRICANT)