

AS4687

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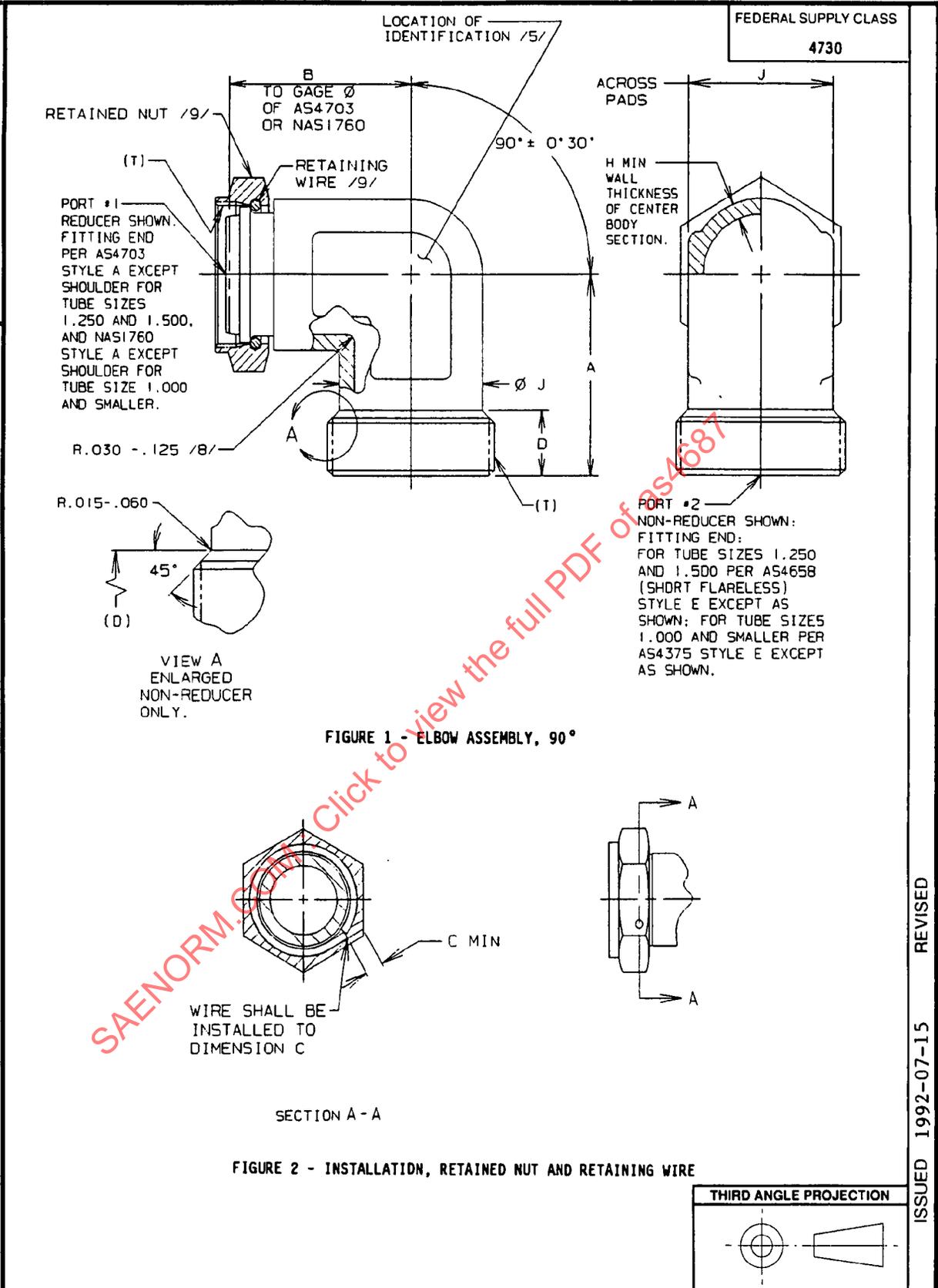


FIGURE 1 - ELBOW ASSEMBLY, 90°

FIGURE 2 - INSTALLATION, RETAINED NUT AND RETAINING WIRE

CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ MIL-F-18280

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**INTERNATIONAL**

400 Commonwealth Drive, Warrendale, PA 15095-0001

**AEROSPACE STANDARD**

ELBOW ASSEMBLY, 90°,  
REDUCER, RETAINED NUT,  
FLARELESS AND SHORT FLARELESS

**AS4687**

SHEET 1 OF 4

ISSUED 1992-07-15 REVISED

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TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO.				J	LB/EA	LB/EA	LB/EA
AS4687					MAX	MAX	MAX
/10/ /16/					ALUM	CRES	TI
SIZE CODE	C	D	H	-.002/+ .020			
20	.155	.517	.124	1.375	.332	.964	.560
24	.180	.614	.156	1.688	.502	1.430	.828

TABLE 2 - LEG LENGTH A

SIZE OF PORT #2	FORGING SIZE /10/ 20	FORGING SIZE /10/ 24
04	1.424	1.549
05	1.424	1.549
06	1.440	1.565
08	1.533	1.658
10	1.596	1.721
12	1.659	1.784
16	1.659	1.784
20	1.678	1.577
24	--	1.803

TABLE 3 - LEG LENGTH B

SIZE OF PORT #1	FORGING SIZE /10/ 20	FORGING SIZE /10/ 24
04	1.401	1.526
05	1.453	1.578
06	1.514	1.639
08	1.611	1.736
10	1.690	1.815
12	1.679	1.804
16	1.727	1.852
20	1.603	1.728
24	--	1.756

TABLE 4 - TUBE SIZE AND CORRESPONDING THREADS

PDRT 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	.875	1.3125-12UNJ
20	1.000	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)