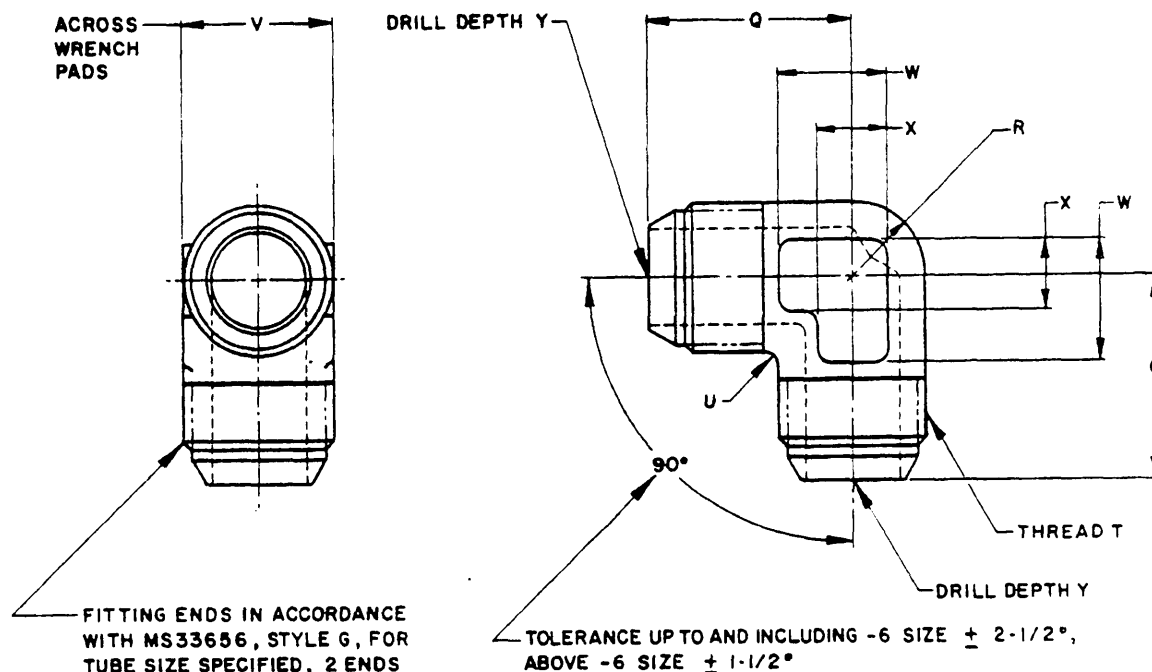


USER ACTIVITIES

REVIEWER ACTIVITIES DLA-CS

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.



(a) AT OPTION OF MANUFACTURER, BASIC DIMENSION Q MAY BE MADE 1/64 LESS THAN THE DIMENSIONS SPECIFIED, WITH THE PROVISION THAT BASIC DIMENSION Y IS ALSO MADE 1/64 LESS THAN THE DIMENSION SPECIFIED.

MATERIALS: STEEL - BARS, SHAPES, OR FORGINGS.
ALUMINUM ALLOY - BARS, SHAPES, OR FORGINGS.
TITANIUM ALLOY - BARS, SHAPES OR FORGINGS.
CORROSION RESISTANT STEEL - BARS, SHAPES, OR FORGINGS.
SEE PROCUREMENT SPECIFICATION.

FINISH: SEE PROCUREMENT SPECIFICATION.

NO CODE LETTER IN PART NUMBER FOR STEEL.
ADD D AFTER DASH NUMBER FOR ALUMINUM ALLOY (EXCEPT 7075-T73).
ADD J AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL, TYPE 304.
ADD K AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL, TYPE 316.
ADD S AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL, TYPE 347.
ADD T AFTER DASH NUMBER FOR TITANIUM.
ADD W AFTER DASH NUMBER FOR 7075-T73.

EXAMPLE OF PART NUMBERS:

AN821-8 - ELBOW, 1/2 TUBING, STEEL
AN821-8D - ELBOW, 1/2 TUBING, ALUMINUM ALLOY (EXCEPT 7075-T73).
AN821-8J - ELBOW, 1/2 TUBING, CORROSION RESISTANT STEEL, TYPE 304.
AN821-8K - ELBOW, 1/2 TUBING, CORROSION RESISTANT STEEL, TYPE 316.
AN821-8S - ELBOW, 1/2 TUBING, CORROSION RESISTANT STEEL, TYPE 347.
AN821-8T - ELBOW, 1/2 TUBING, TITANIUM.
AN821-8W - ELBOW, 1/2 TUBING 7075-T73.

BREAK ALL SHARP EDGES AND REMOVE ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: FRACTIONS $\pm 1/64$, DECIMALS $\pm .005$, ANGLES $\pm 1/2^\circ$.

TITANIUM NOT TO BE USED IN OXYGEN SYSTEMS.

8 ENTIRE STANDARD REVISED

P. A. AIR FORCE - 82 Other Cust ARMY - AV NAVY - AS	INTERNATIONAL INTEREST	AIR FORCE-NAVY AERONAUTICAL STANDARD		AN821
AIR FORCE - 99 PROCUREMENT SPECIFICATION MIL - F - 8509	SUPERSEDES:			SHEET 1 OF 2

DD FORM 672-1 (COORDINATED)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PROJECT 4730-0.81

APPROVED 13 DEC 40
REVISED 7 16 APRIL 82
8

USER ACTIVITIES

REVIEWER ACTIVITIES DLA-CS

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FED. SUP CLASS 4730									
DASH NO.	TUBING OD	THREAD T (REF)	(a) Q +3/64 -0	R RAD	U RAD	V	W APPROX	X APPROX	Y +3/64 -0
AN821-2	1/8	5/16-24UNJF-3A	49/64	5/32	1/16	5/16	5/16	3/16	51/64
AN821-3	3/16	3/8-24UNJF-3A	53/64	3/16		3/8		1/4	55/64
AN821-4	1/4	7/16-20UNJF-3A	57/64	7/32		7/16	3/8		15/16
AN821-5	5/16	1/2-20UNJF-3A	61/64	1/4		1/2	1/2	5/16	1
AN821-6	3/8	9/16-18UNJF-3A	1- 1/16	9/32	9/16	5/8		7/16	1- 1/8
AN821-8	1/2	3/4-16UNJF-3A	1- 1/4	3/8	3/4		3/4	7/16	1- 5/16
AN821-10	5/8	7/8-14UNJF-3A	1-29/64	7/16	7/8	1-33/64			
AN821-12	3/4	1-1/16-12UNJ-3A	1-21/32	17/32	1-1/16	7/8	1/2	1-23/32	
AN821-16	1	1-5/16-12UNJ-3A	1-13/16	21/32	1/8	1-5/16	1-1/16	5/8	1-15/16
AN821-20	1-1/4	1-5/8-12UNJ-3A	2- 1/16	13/16		1-5/8	1-1/4	3/4	2- 3/16
AN821-24	1-1/2	1-7/8-12UNJ-3A	2-21/64	15/16		1-7/8	1-7/16	7/8	2-41/64
AN821-28	1-3/4	2-1/4-12UNJ-3A	2-13/16	1- 1/8		3/16	2-1/4	1-3/4	1-1/16
AN821-32	2	2-1/2-12UNJ-3A	3- 1/16	1- 1/4	1/4	2-9/16	2	1-3/16	3- 1/4

8 ENTIRE STANDARD REVISED

P. A. AIR FORCE-82 Other Cust ARMY - AF NAVY - AS AIR FORCE-99	INTERNATIONAL INTEREST	AIR FORCE-NAVY AERONAUTICAL STANDARD	AN821
ELBOW-FLARED TUBE, 90°			
PROCUREMENT SPECIFICATION MIL-F-5509	SUPERSEDES:	SHEET 2 OF 2	

APPROVED 13 DEC 40 REVISED 8 FOR CHANGES SEE PAGES 1 & 2. 5 AUG 83