



MATERIAL: COPPER ALLOY; ALUMINUM ALLOY; CORROSION RESISTANT STEEL (CRES); BARS, SHAPES, OR FORGINGS (SEE PROCUREMENT SPECIFICATION).

FINISH: SEE PROCUREMENT SPECIFICATION.

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

EXAMPLE OF PART NUMBER:
 AN838-8 - ELBOW, 1/2 TUBING, COPPER ALLOY.
 AN838-8D - ELBOW, 1/2 TUBING ALUMINUM ALLOY (EXCEPT 7075-T73).
 AN838-8J - ELBOW, 1/2 TUBING, CRES, TYPE 304.
 AN838-8K - ELBOW, 1/2 TUBING, CRES, TYPE 316.
 AN838-8S - ELBOW, 1/2 TUBING, CRES, TYPE 347.
 AN838-8W - ELBOW, 1/2 TUBING, 7075-T73 ALUMINUM ALLOY.

USE IN MANNER INDICATED ON MS21344 AND AND10065.

BREAK ALL SHARP EDGES AND REMOVE ALL HANGING BURRS AND SLIVERS.

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

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

8 ENTIRE STANDARD REVISED

P. A.
 AIR FORCE - 81
 Other Cust.
 AF 99
 ☺
 PROCUREMENT SPECIFICATION
 MIL-F-5509

INTERNATIONAL
 INTEREST

AIR FORCE-NAVY AERONAUTICAL STANDARD
 ELBOW, TUBE TO HOSE, 90°
 SUPERSEDES:

AN838
 SHEET 1 OF 2

USER ACTIVITIES:

REVIEWER ACTIVITIES:
 DLA - CS

This Military Standard is approved for use by HQ AFLC CASO/LODS, Federal Center, Battle Creek, MI 49016, Department of the Air Force, and is available for use by all Departments and agencies of the Department of Defense.

CANCELLED

APPROVED 24 JUL 44 REVISED 8 30 AUG 92

USER ACTIVITIES:

DASH NO.	HOSE ID	TUBING OD	THREAD T -(REF)	A APPROX	B APPROX	C DIA
4	1/4	1/4	7/16-20UNJF-3A	1/4	5/16	7/16
6	3/8	3/8	9/16-18UNJF-3A	5/16	1/2	9/16
8	1/2	1/2	3/4 -16UNJF-3A	7/16	5/8	3/4
10	5/8	5/8	7/8 -14UNJF-3A		3/4	7/8
12	3/4	3/4	1-1/16-12UNJ -3A	1/2	15/16	1-1/16
16	1	1	1-5/16-12UNJ -3A	9/16	1	1-5/16
20	1-1/4	1-1/4	1- 5/8-12UNJ -3A		1- 1/4	1-5/8
24	1-1/2	1-1/2	1- 7/8-12UNJ -3A	5/8	1- 1/2	1-7/8

REVIEWER ACTIVITIES:
DLA - CS

DASH NO.	D +3/64 -0	E RAD	F +3/64 -0	H RAD	J +3/64 -0	K	M +3/64 -0
4	1-27/32	1/16	1- 9/16	1/16	1-29/32	7/16	1-19/32
6	1-15/16		1-47/64	3/32	2	9/16	1-49/64
8	2- 1/32	3/32	2- 1/32			1/8	2- 7/64
10	2- 3/32		2- 9/32	2-11/64	7/8		7/8
12	2- 1/4	2- 9/16	2- 3/8			1-1/16	2-11/16
16	2- 3/8	1/8		2-11/16	2-35/64		1-5/16
20	2-17/32		2-59/64	3/16		2-49/64	1-5/8
24	2-21/32	3- 1/16	2-15/16		1-7/8		3-23/64

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P. A.
AIR FORCE 82
Other Cust
AF 99

INTERNATIONAL INTEREST

AIR FORCE-NAVY AERONAUTICAL STANDARD

ELBOW, TUBE TO HOSE, 90°

AN838

PROCUREMENT SPECIFICATION
MIL - F - 5509

SUPERSEDES:

SHEET 2 OF 2

APPROVED 24 JULY 1944 REVISED 8 FOR CHANGES SEE PAGES 1 & 2. 30AUC:82