

INCH-POUND

AN791 Rev 7
13 February 2013
SUPERSEDING
AN791 Rev 6
4 August 2011

DETAIL SPECIFICATION SHEET

ELBOW, UNION, 45 DEGREE

Inactive for new design after 24 July 1998.

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-6001.

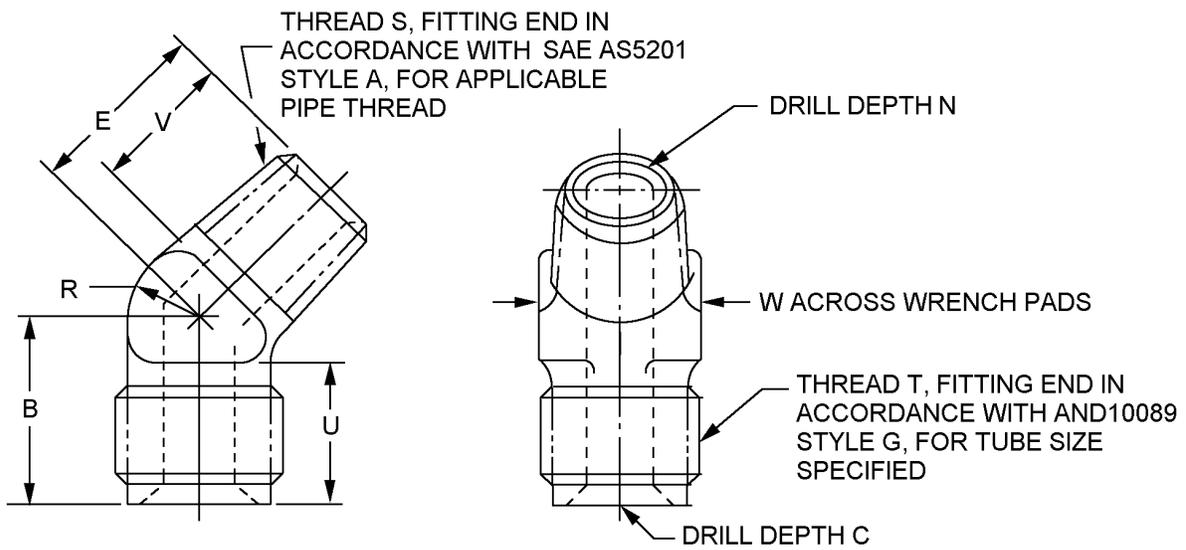


FIGURE 1. Elbow, union 45°.

TABLE I. Dash numbers and size. 1/ 2/

Dash number		Tubing outside diameter	Thread S SAE AS5201 NPT	Thread T AND10089	B +.047 -.000	C +.047 -.000	E +.047 -.000	N +.047 -.000	R ±.015 Rad	U ±.015	V ±.015	W ±.015
Brass	Corrosion resistant steel											
2	C2	.125	1/8-27	.3125-32 UNEF-3A	.625	.625	.500	.500	.125	.375	.375	.312
3	C3	.188		.3750-24 UNF-3A		.531		.156	.375			
4	C4	.250		.4375-20 UNF-3A		.203		.438	.438			
6	C6	.375	1/4 - 18	.6250-18 UNF-3A	.688	.750	.688	.750	.250	.500	.562	.625
8	C8	.500	3/8 - 18	.7500-16 UNF-3A	.812	.875	.750	.844	.312	.625		.750
10	C10	.625	1/2 - 14	.9375-14 NS-3	1.062	1.188	.938	1.062	.381	.750	.750	.938

TABLE I. Dash numbers and size – Continued. 1/ 2/

Dash number		Tubing outside diameter	Thread S SAE AS5201 NPT	Thread T AND10089	B +1.194 -.000	C 1.194- .000	E +1.194 -.000	N +1.194 -.000	R ±.381 Rad	U ±.381	V ±.381	W ±.381
Brass	Corrosion resistant steel											
2	C2	3.175	1/8-27	7.925-32 NEF-3A	15.875	15.875	12.7	12.7	3.175	9.525	9.525	7.925
3	C3	4.267		9.525-24 UNF-3A		16.662		3.962	9.525			
4	C4	6.350		11.125-20 UNF-3A		13.487		5.156	11.125			11.125
6	C6	9.525	1/4 - 18	15.875-18 UNF-3A	17.475	19.05	17.475	19.05	6.350	12.7	14.275	15.875
8	C8	12.700	3/8 - 18	19.050-16 UNF-3A	20.625	22.225	19.05	21.438	7.925	15.875		19.05
10	C10	15.875	1/2 - 14	23.825-14 NS-3	26.975	30.175	23.825	26.975	9.677	19.05	19.05	23.825

1/ Dimensions are in inches

2/ Metric equivalents are given for information only.

REQUIREMENTS

Dimensions. See table I. Unless otherwise specified tolerances on decimals are ± 0.010 , angles $\pm 0.5^\circ$.

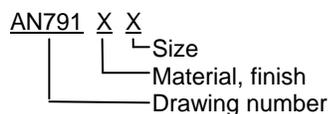
Configuration. See figure 1.

Dash numbers 2, 3 and 4 are inactive for new design except for use in oxygen systems and engine primer lines. Dash numbers 6, 8 and 10 are inactive for new design except for use in oxygen systems and ground service equipment. Dash numbers 6, 8 and 10 are not to be used on engine primer lines.

Materials: Brass; bars, shapes or forgings.
Corrosion – resistant steel; bars, shapes or forgings.
See procurement specification.

Finish: See procurement specification.

Identification of product. Add P before the dash number for cadmium – plated brass nipple.

AN791 X X


Example of Part or Identifying Number (PIN): AN791-4 elbow – union, brass, for .250 tubing OD.
AN791P4 elbow – union, brass, cadmium plated, for .250 tubing OD.
AN791C4 elbow – union, corrosion resistant steel, for .250 tubing OD.

Workmanship. Break all sharp edges and remove all hanging burrs and slivers which might become dislodged under usage.

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Referenced documents. In addition to MIL-DTL-6001, this document references the following:

AND10089
SAE AS5201

CONCLUDING MATERIAL

Custodians:
Army – AR
Navy – SH
Air Force - 99
DLA - CC

Preparing activity:
DLA - CC

(Project 4730-2013-043)

Review activities:
Army – AT, AV, CR4
Navy – AS, CG, MC, SA, YD
Air Force - 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.