

INCH-POUND

AN791 Rev 6  
 4 August 2011  
 SUPERSEDING  
 AN791 Rev 5  
 20 August 1956

DETAIL SPECIFICATION SHEET

NIPPLE, UNION

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.

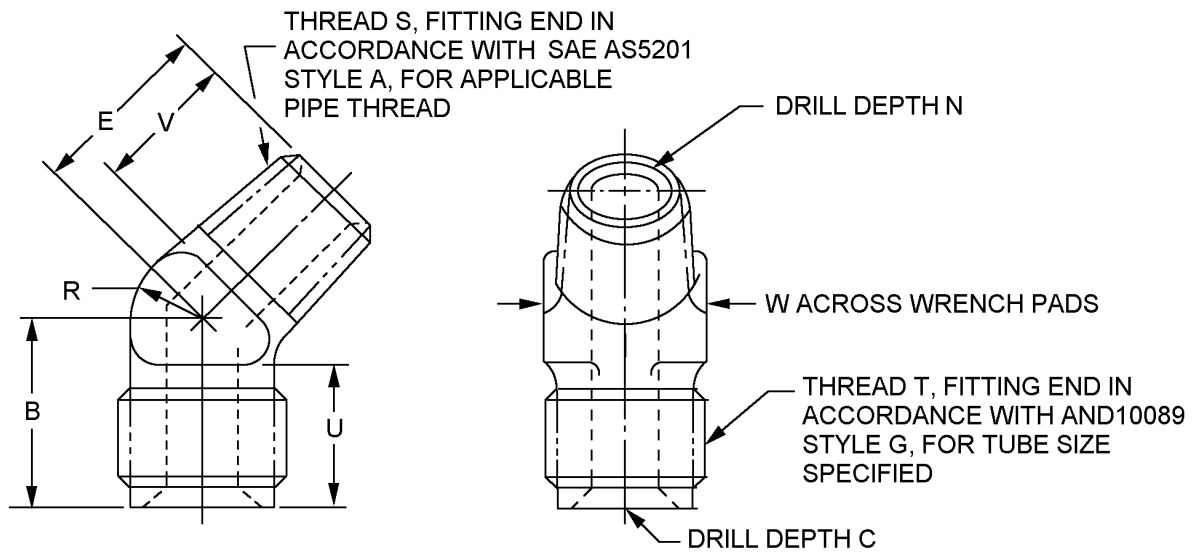


FIGURE 1. Elbow, union 45°.

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

Dash number	Tubing outside diameter	Thread S	Thread T	B	C	E	N	R	U	V	W
2	.125	1/8-27	.3125-32 UNEF-3A	.625	.625	.500	.500	.125	.375	.375	.312
3	.188		.3750-24 UNF-3A		.656	.531	.156	.375	.375	.375	.375
4	.250		.4375-20 UNF-3A		.203	.438	.203	.438	.438	.438	.438
6	.375	1/4 - 18	.6250-18 UNF-3A	.688	.750	.688	.750	.250	.500	.562	.625
8	.500	3/8 - 18	.7500-16 UNF-3A	.812	.875	.750	.844	.312	.625	.750	.750
10	.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	Thread T	B	C	E	N	R	U	V	W
2	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	4.267		9.525-24 UNF-3A		16.662	13.487	3.962	9.525	9.525	9.525	9.525
4	6.350		11.125-20 UNF-3A		17.475	17.475	5.156	11.125	11.125	11.125	11.125
6	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	12.700	3/8 - 18	19.050-16 UNF-3A	20.625	22.225	19.05	21.438	7.925	15.875	19.05	19.05
10	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.

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## REQUIREMENTS

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

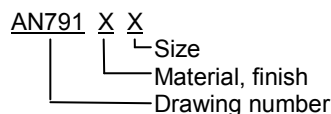
Configuration. See figure 1.

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  
  
 Size  
 Material, finish  
 Drawing number

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. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

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 4730-2010-182)

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.daps.dla.mil>.