

INCH-POUND

AN742 REV 13  
 5 January 2011  
 SUPERSEDING  
 AN742 REV 12  
 13 April 1995

## DETAIL SPECIFICATION SHEET

## CLAMP, LOOP, PLAIN, SUPPORT, AIRCRAFT

Inactive for new design after 13 April 1995.

This specification sheet 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 procurement specification MIL-C-8603.

SHAPE IN SOLID LINES REPRESENTS  
 CLAMP AFTER SPRING BACK FROM  
 THE 270 DEGREES FORMED POSITION

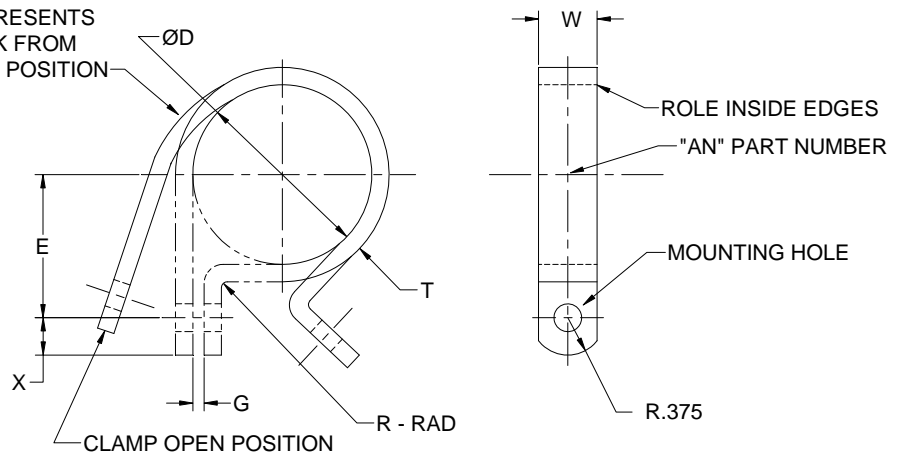


FIGURE I. Clamp.

## AN742 REV 13

TABLE I. Part numbers and dimensions.

DASH NUMBER	RIGID TUBE NOMINAL O.D. (REF)	ØD ±.010	E		G	R ±.010	T			AL ALLOY		ALL STEEL		X
			ALUMINUM ALLOY	ALL STEEL			AL ALLOY	CARBON STEEL	HIGH TEMP CRES	W	MTG HOLE DIA ±.005	W	MTG HOLE DIA ±.005	
AN742-2	.125	.125	.360	.360	.062 +.016 -.000	062	.0320 ±.0025		.020 ±.003					
AN742-3	.188	.188	.423	.423										
AN742-4	.250	.250	.457	.457										
AN742-5	.313	.313	.498	.498										
AN742-6	.375	.375	.529	.529										
AN742-7	.438	.438	.560	.560										
AN742-8	.500	.500	.592	.592										
AN742-9	.563	.563	.623	.623										
AN742-10	.625	.625	.654	.654										
AN742-11	.688	.688	.752	.749										
AN742-12	.750	.750	.783	.780										
AN742-13	.813	.813	.814	.811										
AN742-14	.875	.875	.845	.842										
AN742-15	.938	.938	.877	.858										
AN742-16	1.000	1.000	.908	.889										
AN742-17	1.063	1.063	.939	.920										
AN742-18	1.125	1.125	.970	.951										
AN742-19	1.188	1.188	1.002	.983										
AN742-20	1.250	1.250	1.062	1.030										
AN742-21	1.313	1.313	1.093	1.061										
AN742-22	1.375	1.375	1.124	1.092										
AN742-23	1.438	1.438	1.156	1.124										
AN742-24	1.500	1.500	1.187	1.155										
AN742-25	1.563	1.563	1.218	1.186										
AN742-26	1.625	1.625	1.249	1.217										
AN742-27	1.688	1.688	1.281	1.249										
AN742-28	1.750	1.750	1.312	1.280										
AN742-29	1.812	1.812	1.344	1.312										
AN742-30	1.875	1.875	1.374	1.342										
AN742-31	1.938	1.938	1.406	1.374										
AN742-32	2.000	2.000	1.437	1.405	.125 +.031 -.000	.125	.063 ±.005		.500	.218	.500	.218	.218	
AN742-33	2.062	2.062	1.468	1.444										
AN742-34	2.125	2.125	1.499	1.475										
AN742-35	2.188	2.188	1.531	1.507										
AN742-36	2.250	2.250	1.562	1.538										
AN742-37	2.312	2.312	1.594	1.570										
AN742-38	2.375	2.375	1.624	1.600										
AN742-40	2.500	2.500	1.687	1.663										
AN742-42	2.625	2.625	1.752	1.728										
AN742-43	2.680	2.680	1.778	1.754										
AN742-44	2.750	2.750	1.812	1.788										
AN742-45	2.812	2.812	1.844	1.820										
AN742-46	2.875	2.875	1.875	1.851										
AN742-48	3.000	3.000	1.937	1.913										
AN742-50	3.125	3.125	2.000	1.976										
AN742-52	3.250	3.250	2.062	2.038										
AN742-54	3.375	3.375	2.125	2.101										
AN742-56	3.500	3.500	2.187	2.163										
AN742-58	3.625	3.625	2.250	2.226										
AN742-64	4.000	4.000	2.437	2.413										
AN742-66	4.125	4.125	2.500	2.476										

AN742 REV 13

Requirements:

1. Materials and Finish:
  - (-) = AISI-1010 steel, temper T 4 per ASTM-A109/A109M.  
Finish – Cadmium plated per SAE-AMS-QQ-P-416, Type II, Class 2.
  - (D) = ALCLAD 2024-0, Aluminum Alloy per SAE-AMS-QQ-A-250/5  
Heat treated per SAE AMS2770 to T42 condition.  
Finish – Chemical film per MIL-DTL-5541, Class 1A.
  - (F) = AISI-321 Corrosion Resistant Steel per SAE-AMS 5510.  
Finish – Passivated per SAE-AMS-QQ-P-35.

Notes:

1. Example of part number:

AN742-8 = Clamp, Steel, .500 I.D.  
AN742D8 = Clamp, Aluminum Alloy, .500 I.D.  
AN742F8 = Clamp, Corrosion Resistant Steel, .500 I.D.

2. The part number and the Manufacturer's identification shall be marked on each clamp.
3. Remove all burrs and sharp edges.
4. Dimensions in inches. Unless otherwise specified, tolerances:  $\pm .015$ .
5. Clamps shall be furnished in the open position.
6. For design feature purposes, this standard takes precedence over the procurement document referenced herein. Referenced documents shall be of the issue in effect on the date of invitation for bid.
7. Code "F" clamp manufactured from SAE-AMS 5510 CRES shall be used in both corrosive and high temperature environment.
8. Code "H" clamp has been superseded by code "F" as of 30 December 1993, however code "H" clamp shall be used until existing stocks are depleted.
9. Code "-" clamp is inactive for new design as of 13 April 1995. Code "D" and code "F" clamps are cancelled after 31 January 2001 and superseded by code "D" and code "C" clamps per AS5587 (see Interchangeability Table). Code "D" and code "F" clamps shall be used until existing stocks are depleted.
10. Cancelled part number listed in the interchangeability table are cancelled after 31 January 2001. Replacement part number can replace cancelled part number universally but cancelled part number can not replace replacement part number universally.
11. 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.

## AN742 REV 13

Table II. Interchangeability Table.

Cancelled AN part number	Replacement AS part number
AN742D( )	AS5587D( )
AN742F( ) or AN742H( )	AS5587C( )

( ) Represents the same dash number for AN & AS part number (AS part number requires "0" be added to dash number for dash number that is less than 10).

Examples: AN742D8      AS5587D08  
AN742F4      AS5587C04  
AN742H11      AS5587C11

Custodians:  
Army - AV  
Navy - AS  
Air Force - 99

Preparing Activity:  
DLA -IS

(Project 5340-2011-001)

Review Activities:  
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>.