

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

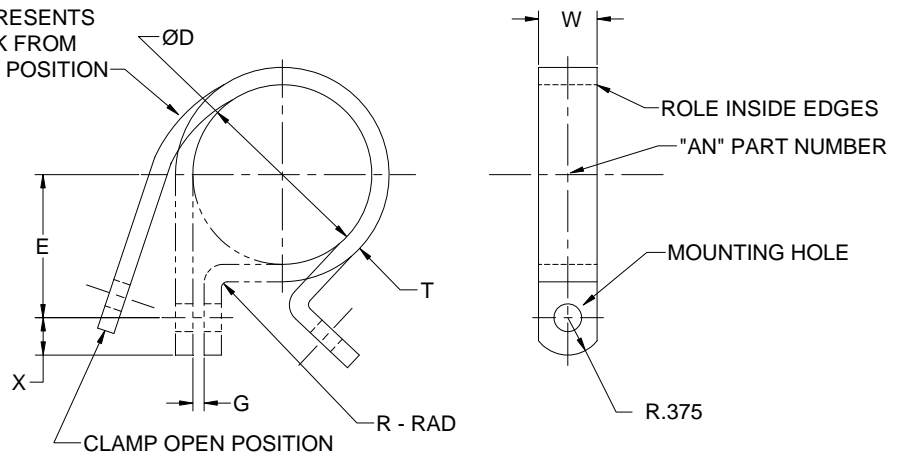


FIGURE I. Clamp.

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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											.094 +.031 -.000
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		.040 ±.004	.040 ±.004	.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											

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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.

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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>.