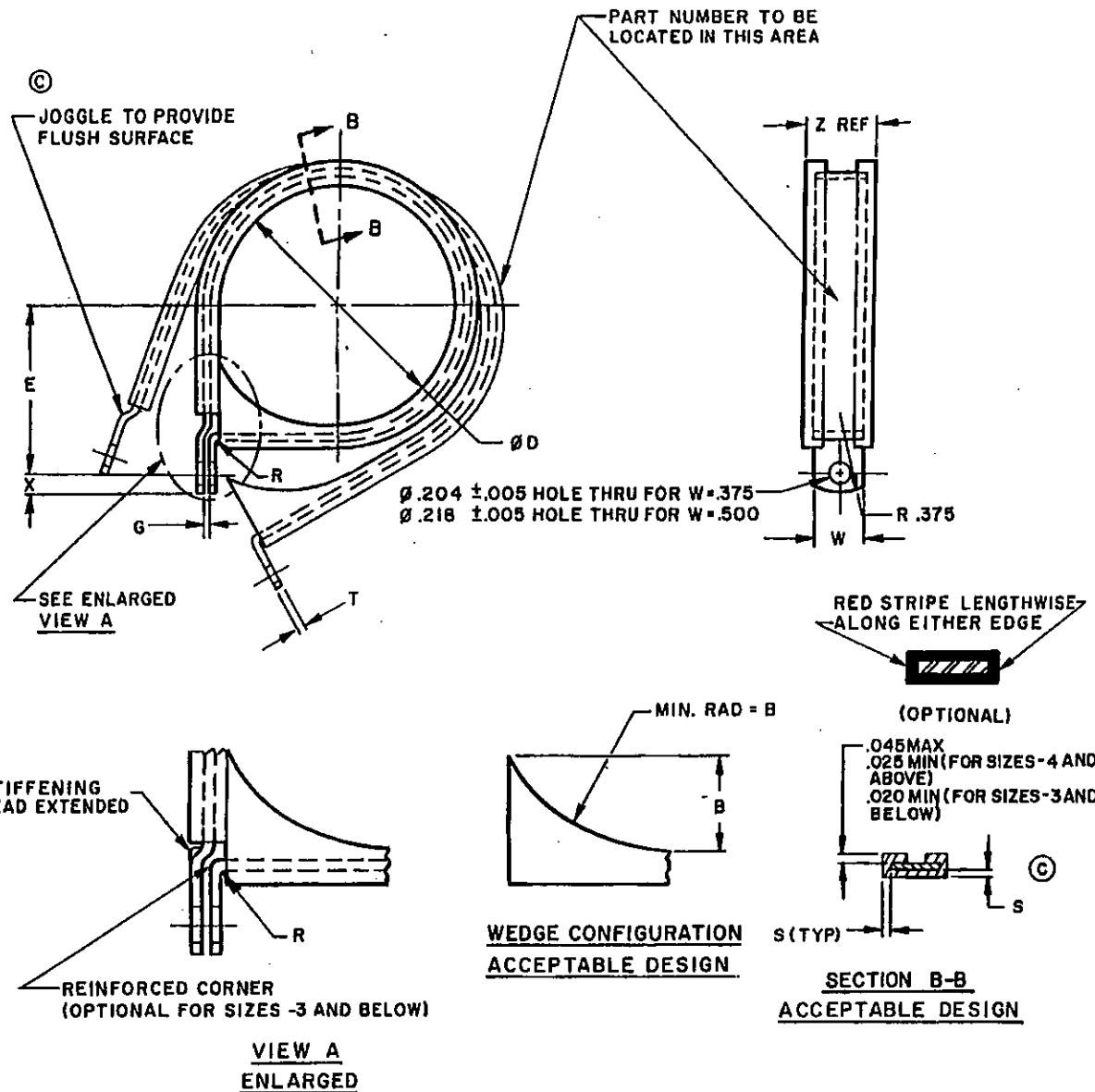


THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION: MIL-C-8603



© DENOTES CHANGE

PREPARING ACTIVITY: NAVY - AS  
CUSTODIANS: ARMY - NAVY -

AIR FORCE - 99 DLA -  
REVIEW: ARMY - AV, MI, AR, ME  
NAVY - AS; USAF-82; DLA-18  
USER: ARMY - AR, MI; M. CORPS-MC;  
NADEP - PENSACOLA  
PROJECT NUMBER: 6340-2036

MILITARY SPECIFICATION SHEET  
TITLE CLAMP, LOOP, CUSHIONED  
WEDGE, POLYTETRAFLUORO-  
ETHYLENE

SPECIFICATION SHEET NUMBER 31 MAY 91  
REV C  
MS21122  
SUPERSEDING MS21122REV B 14 FEB 1989  
AMSC- N/A FSC: 5340

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

Page 1 of 4

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

Form approved  
OMU No. 0704-0188

TABLE 1. DIMENSIONS DATA.

DASH NOS.	RIGID TUBE NOMINAL OD	B .032	ØG .015	E		G	K 1.016 RAD	S 1.016 - .000	T		K		X		Z. REF	
				ALUM.	CRES.				ALUM.	CRES.	ALUM.	CRES.	ALUM.	CRES.	ALUM.	CRES.
-1	.0625		.062	.436	.436											
-2	.1250	.078	.125	.457	.457			.020								
-3	.1875		.188	.498	.498											
-4	.2500	.094	.250	.529	.529				.0320			.375		.188		.497
-5	.3125	.109	.313	.560	.560				+.0025							
-6	.375		.375	.592	.592											
-7	.4375	.125	.438	.623	.623											
-8	.500		.500	.654	.654	.062										
-9	.5625		.563	.752	.749										.622	
-10	.6250		.625	.783	.780	+.016 - .000										
-11	.6875	.187	.688	.814	.811											
-12	.7500		.750	.845	.842											
-13	.8125		.813	.877	.858		.109		.050							.622
-14	.8750		.875	.908	.889			.025	+.004							
-15	.9375		.938	.939	.920					.0320		.500		.218		
-16	1.000		1.000	.970	.951				+.0035							
-17	1.0625		1.063	1.002	.983							.500				
-18	1.1250		1.125	1.062	1.030									.218		
-19	1.1875		1.188	1.093	1.061											
-20	1.250		1.250	1.124	1.092											
-21	1.3125	.094	1.313	1.156	1.124				.062							
-22	1.375		1.375	1.187	1.155				+.005							
-23	1.4375		1.438	1.218	1.186	+.031 - .000	.125								.656	.658
-24	1.5000		1.500	1.249	1.217											
-25	1.5625		1.563	1.281	1.259											
-26	1.6250		1.625	1.312	1.280											
-27	1.6875		1.688	1.344	1.312											
-28	1.7500		1.750	1.374	1.342											
-29	1.8125		1.812	1.406	1.374											
-30	1.8750		1.875	1.437	1.405											

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THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

PREPARING ACTIVITY: NAVY - AS  
CUSTODIANS: ARMY - NAVY -  
AIR FORCE - 99 DLA -  
REVIEW: ARMY - AV, MI, AR, ME  
NAVY - AS; USAF-82; DLA-15  
USER: ARMY - AR, MI; M. CORPS-MC;  
NADEP - PENSACOLA  
PROJECT NUMBER: 5340-2035

MILITARY SPECIFICATION SHEET  
TITLE: CLAMP, LOOP, CUSHIONED,  
WEDGE, POLYTETRAFLUORO-  
ETHYLENE

SPECIFICATION SHEET NUMBER  
**MS21122** 31 MAY 91  
REV C  
SUPERSEDING  
MS21122 REV B 14 FEB 1989  
AMSC- N/A FSC: 5340

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TABLE 1. DIMENSIONS DATA (CONTINUED).

DASH NOS.	RIGID TUBE NOMINAL OD	B + .032	ØD + .015	E		G	R + .016 RAD	S + .016 - .000	T		W		X		Z REF	
				ALUM.	CRES				ALUM.	CRES	ALUM.	CRES	ALUM.	CRES	ALUM.	CRES
-31	1.9375		1.938	1.468	1.444											
-32	2.0000		2.000	1.499	1.475											
-33	2.0625		2.062	1.531	1.507											
-34	2.1250		2.125	1.562	1.538											
-35	2.1875		2.188	1.594	1.570											
-36	2.2500		2.250	1.624	1.600											
-37	2.3125		2.312	1.655	1.631											
-38	2.3750		2.375	1.687	1.663											
-40	2.5000		2.500	1.752	1.728											
-42	2.6250		2.625	1.812	1.788											
-43	2.6875	.187	2.688	1.844	1.820	.125	.125	.025	.062	.040	.500	.500	.218	.218	.656	.658
-44	2.7500		2.750	1.875	1.851	+ .031 - .000			+ .005	+ .004						
-45	2.8125		2.812	1.906	1.882											
-46	2.8750		2.875	1.937	1.913											
-48	3.0000		3.000	2.000	1.976											
-50	3.1250	Ⓢ	3.125	2.062	2.038											
-52	3.2500		3.250	2.125	2.101											
-54	3.3750		3.375	2.187	2.163											
-56	3.5000		3.500	2.250	2.226											
-58	3.6250		3.625	2.312	2.288											
-64	4.0000		4.000	2.500	2.476											
-66	4.1250		4.125	2.562	2.538											

**REQUIREMENTS:****1. MATERIALS: (SEE PROCUREMENT SPECIFICATION)****(a) CLAMP BAND:**

- (1) ALUMINUM ALLOY ALCLAD 2024-D PLATE AND SHEET PER QQ-A-250/5. HEAT TREATED IN ACCORDANCE WITH THE PROCUREMENT SPECIFICATION.
- (2) CORROSION-RESISTANT STEEL TYPE 321 PER AMS 5510.

**(b) CUSHION: MOLDED POLYTETRAFLUOROETHYLENE (PTFE) PER ASTM 1457 TYPE 1.****2. FINISH: (SEE PROCUREMENT SPECIFICATION)****(a) CLAMP BAND:**

- (1) ALUMINUM ALLOY: ALUMINUM ALLOY BANDS SHALL BE FINISHED IN ACCORDANCE WITH MIL-C-5541, CLASS 1A.
- (2) CORROSION-RESISTANT STEEL: CORROSION-RESISTANT STEEL BANDS SHALL BE CLEANED AND PASSIVATED PER QQ-P-35.

**(b) CUSHION: POLYTETRAFLUOROETHYLENE (PTFE): NONE**

PREPARING ACTIVITY: NAVY - AS  
CUSTODIANS: ARMY - NAVY -

AIR FORCE - 99 DLA -  
REVIEW: ARMY - AV, MI, AR, ME  
NAVY - AS; USAF-82; DLA-IS  
USER: ARMY - AR, MI, M. CORPS-MC;  
NADEP - PENSACOLA  
PROJECT NUMBER: 6340-2035

**MILITARY SPECIFICATION SHEET**

TITLE: CLAMP, LOOP, CUSHIONED,  
WEDGE, POLYTETRAFLUORO-  
ETHYLENE

SPECIFICATION SHEET NUMBER

**MS21122**

31 MAY 91

REV C

SUPERSEDING  
MS21122 REV B

14 FEB 1989

AMSC- N/A

FSC: 5340

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THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDS SPECIFIED IN THE SOLICITATION: MIL-C-8603

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

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THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

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OMB No. 0704-0188

#### REQUIREMENTS CONTINUED:

3. WEDGE IS PROHIBITED ON -1.

4. PART NUMBER:

A DASH AFTER THE BASIC PART NUMBER INDICATES ALUMINUM ALLOY CUSHIONED CLAMP.

ADD "C" IN PLACE OF THE DASH FOR CORROSION-RESISTANT STEEL CUSHIONED CLAMP.

EXAMPLE OF PART NUMBERS:

BASIC PART NUMBER MS21122 - 12 CUSHIONED CLAMP WITH WEDGE, 3/4 INCH NOMINAL TUBE OD ALUMINUM ALLOY BAND

BASIC PART NUMBER MS21122 C 64 CUSHIONED CLAMP WITH WEDGE, 4 INCH NOMINAL TUBE OD CORROSION-RESISTANT STEEL BAND

5. WEDGE IS MANDATORY FOR -4 THROUGH -66 SIZE CLAMPS.

WEDGE IS OPTIONAL FOR -2 AND -3 SIZE CLAMPS.

A DASH AFTER THE BASIC PART NUMBER INDICATES CUSHIONED CLAMP WITHOUT WEDGE. ADD "H" IN PLACE OF THE DASH FOR ALUMINUM ALLOY CUSHIONED CLAMP WITH WEDGE. ADD "W" AFTER "C" FOR CORROSION-RESISTANT STEEL CUSHIONED CLAMP WITH WEDGE.

EXAMPLE OF PART NUMBERS:

BASIC PART NUMBER MS21122 - 3 CUSHIONED CLAMP, 3/16 INCH NOMINAL TUBE OD ALUMINUM ALLOY BAND-NO WEDGE

BASIC PART NUMBER MS21122 W 3 CUSHIONED CLAMP, 3/16 INCH NOMINAL TUBE OD ALUMINUM ALLOY BAND WITH WEDGE

BASIC PART NUMBER MS21122 C 2 CUSHIONED CLAMP, 1/8 INCH NOMINAL TUBE OD CORROSION-RESISTANT STEEL BAND-NO WEDGE

BASIC PART NUMBER MS21122 C W 2 CUSHIONED CLAMP, 1/8 INCH NOMINAL TUBE OD CORROSION-RESISTANT STEEL BAND WEDGE TYPE CUSHION

6. THE ENDS OF THE CUSHION SHALL MEET WHEN THE CLAMP IS IN THE INSTALLED POSITION.

7. WEDGE IS INTEGRAL PART OF CUSHION.

8. THE MS PART NUMBER, DASH NUMBER, AND MANUFACTURER'S IDENTIFICATION SHALL BE MARKED ON EACH CLAMP.

9. CLAMPS SHALL BE FURNISHED IN THE OPEN POSITION.

10. DIMENSION "D" IS APPLICABLE IN CLOSED POSITION ONLY.

11. REINFORCED CORNER AND STIFFENING BEAD ARE MANDATORY. OPTIONAL FOR -1, -2, AND -3.

#### NOTES:

1. REMOVE ALL TOOL AND DIE MARKS, BURRS, AND SHARP EDGES.

2. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS  $\pm .015$ , ANGLES  $\pm 0.5^\circ$ .

3. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.

4. REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

PREPARING ACTIVITY: NAVY - AS  
CUSTODIANS: ARMY - NAVY -  
AIR FORCE - 89 DLA -  
REVIEW: ARMY - AV, MI, AR, ME  
NAVY - AS; USAF-82; DLA-18  
USER: ARMY - AR, MI, M, CORPS-MC;  
NADEP - PENSACOLA  
PROJECT NUMBER: 6340-2036

MILITARY SPECIFICATION SHEET  
TITLE CLAMP, LOOP, CUSHIONED,  
WEDGE, POLYTETRAFLUORO-  
ETHYLENE

SPECIFICATION SHEET NUMBER 31 MAY 91  
MS21122 REV C  
SUPERSEDING  
MS21122REV B 14 FEB 1989  
AMSC- N/A FSC: 5340

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