INCH-POUND

MS21253N
10 January 2001
SUPERSEDING
MS21253M
30 October 1999

MILITARY SPECIFICATION SHEET

CLEVIS END, TURNBUCKLE, CLIP LOCKING, (FOR BEARING)

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 the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation: MIL-DTL-8878-QPL-8878.

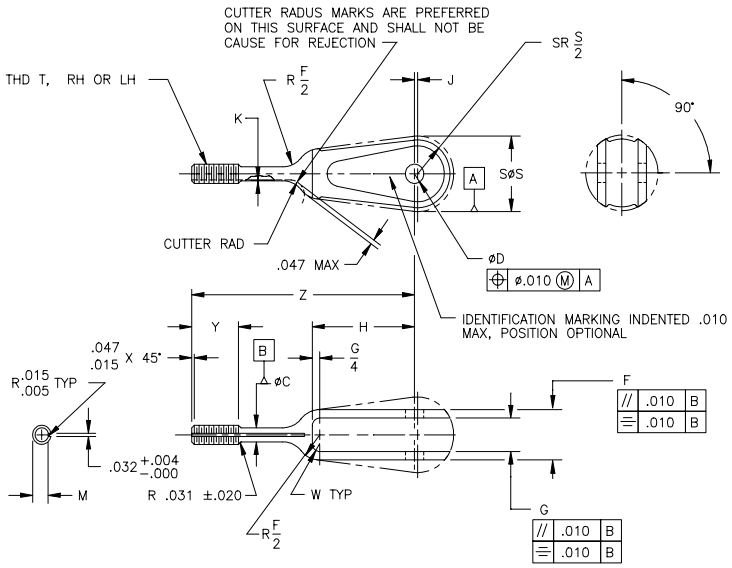

FIGURE 1. Clevis end, turnbuckle, clip locking, (for bearing).

Table I. Dash numbers and dimensions.

Dash number		Wire rope diameter reference		Minimum breaking strength lb	Matches bearing number reference	Thread T UNF-3A	∅C +.000 -.006	∅D +.002 -.000	F +.010 -.005
Direction of thread									
RH	LH	Nominal reference	Minimum						
-3RS	-3LS	3/32	.093	1,600	MS27640- KP3	.1900 (#10)-32	.139	.190	.500
-3RL	-3LL								
-4RS	-4LS	1/8	.125	2,200	MS27640- KP4	.2500 (1/4)-28	.195	.250	.750
-4RL	-4LL								
-5RS	-5LS	5/32	.156	3,200		.3125 (5/16)-24	.249		
-5RL	-5LL								
-6RS	-6LS	3/16	.187	4,600	MS27640-KP5			.313	.813
-6RL	-6LL								

Table I. Dash numbers and dimensions - Continued.

Dash number		G ±.005	H	J +.010 -.000	K	M		S∅S +.125 -.110	W radius	Y ±.047	Z ±.031
Direction of thread											
RH	LH				Maximum	Maximum	Minimum				
-3RS	-3LS	.312	1.062	.031	.0077	.1638	.1568	.750	.156	.500	2.312
-3RL	-3LL										3.187
-4RS	-4LS	.500	1.188	.047	.0103	.2224	.2152	.875	.188	.625	2.562
-4RL	-4LL										3.437
-5RS	-5LS				.0064	.2830	.2754			.750	2.687
-5RL	-5LL										3.562
-6RS	-6LS	.563	1.313					1.000			2.750
-6RL	-6LL										3.625

REQUIREMENTS:

1. Material: 17-4PH stainless steel shall be in accordance with AMS 5643 or ASTM A 564. Steel, carbon or alloy shall be in accordance with MIL-DTL-8878.

2. Protective treatment: Protective treatment shall be in accordance with MIL-DTL-8878.

3. Heat treatment: Steel, carbon or alloy shall be heat treated to 125 to 145 KSI in accordance with SAE AMS-H-6875. 17-4PH shall be in accordance with MIL-DTL-8878.

4. Finish: Finish shall be in accordance with MIL-DTL-8878.

5. Threads: Threads shall be in accordance with FED-STD-H28/20.

6. Tolerances: Unless otherwise specified, tolerances: decimals ± .010, angles ± .5°.

7. Outside diameter (O.D.): O.D. of the "J" dimension may be a flat area.

8. Part or identifying number (PIN): The PIN shall consist of the basic MS number, followed by a dash number; C in lieu of dash indicates 17-4PH (dash indicates carbon or alloy steel); first letter following dash number or letter C indicates direction of

thread (left or right hand), second letter following dash number indicates length (short or long).

Example of PIN:

MS21253C3LS - Clevis end, 17-4PH, .1900 (#10)-32 left hand thread, short.
MS21253-3RL - Clevis end, steel, .1900 (#10)-32 right hand thread, long.

NOTES:

1. Remove all burrs and sharp edges. (See procurement specification for definition.)

2. Dimensions are in inches.

3. Interpret drawing in accordance with ASME Y14.5M.

4. Steel, carbon and alloy clevis end turnbuckles are inactive for new design. 17-4PH stainless steel clevis end turnbuckles shall be used for new design and can be used to replace comparable steel parts.

5. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence.

6. Unless otherwise specified, issues of referenced documents are those in effect at the time of solicitation.

7. For clip locking of turnbuckles, see MS33736.

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.

Custodians:
Army - AV
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