

**INCH-POUND**

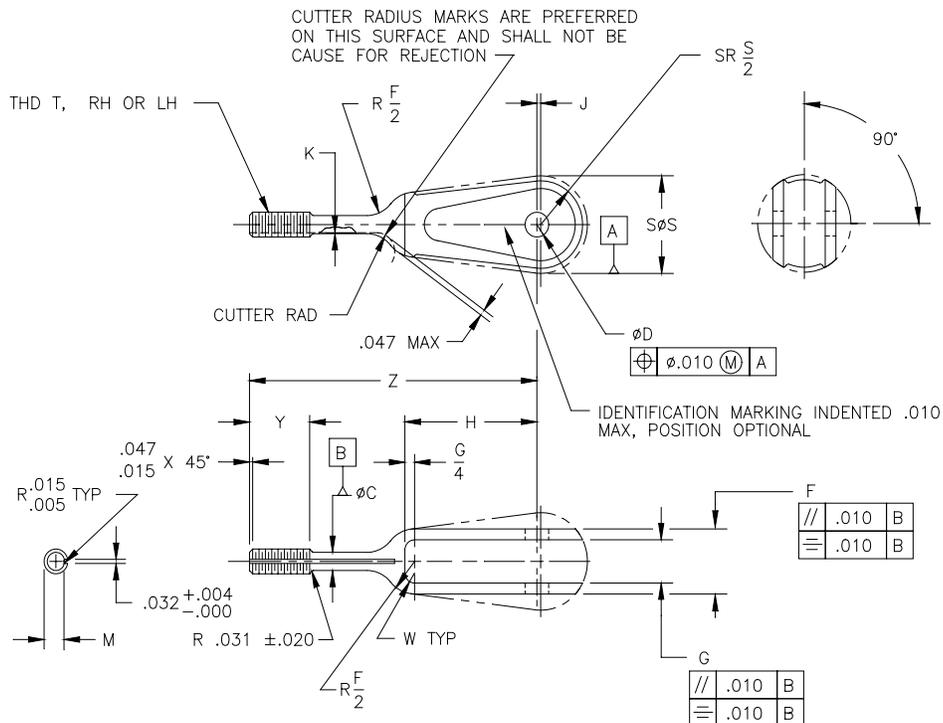
MS21253R  
 20 November 2002  
 SUPERSEDING  
 MS21253P  
 5 November 2001

## DETAIL SPECIFICATION SHEET

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

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



#### NOTES:

- \* 1. G dimension should be inspected below cross-hole.

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

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Table I. Dash numbers and dimensions.

Dash number		Wire rope diameter reference		Minimum breaking strength lbs.	Matches bearing number reference	Thread T UNF-3A	ØC +0.000 -0.006	ØD +0.002 -0.000	F +0.010 -0.005
Direction of thread		Nominal reference	Minimum						
RH	LH								
-3RS	-3LS	3/32	0.093	1,600	MS27640- KP3	0.1900 (#10)-32	0.139	0.190	0.500
-3RL	-3LL								
-4RS	-4LS	1/8	0.125	2,200	MS27640- KP4	0.2500 (1/4)-28	0.195	0.250	0.750
-4RL	-4LL								
-5RS	-5LS	5/32	0.156	3,200	MS27640- KP5	0.3125 (5/16)-24	0.249	0.313	0.813
-5RL	-5LL								
-6RS	-6LS	3/16	0.187	4,600	MS27640- KP5				
-6RL	-6LL								

Table I. Dash numbers and dimensions - Continued.

Dash number		G ±0.005	H	J +0.010 -0.000	K		M		SØS +0.125 -0.110	W radius	Y ±0.047 1/	Z ±0.031
Direction of thread					Maximum	Maximum	Minimum					
RH	LH											
-3RS	-3LS	0.312	1.062	0.031	0.0077	0.1638	0.1568	0.750	0.156	0.500	2.312	
-3RL	-3LL											3.187
-4RS	-4LS	0.500	1.188	0.047	0.0103	0.2224	0.2152	0.875	0.188	0.625	2.562	
-4RL	-4LL											3.437
-5RS	-5LS	0.563	1.313	0.0064	0.2830	0.2754	1.000			0.750	2.687	
-5RL	-5LL											3.562
-6RS	-6LS										2.750	
-6RL	-6LL										3.625	

1/ Includes last full thread engagement.

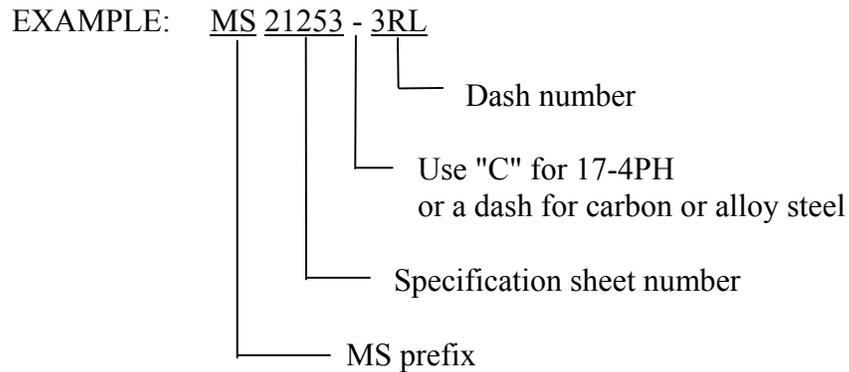
## REQUIREMENTS:

1. Material: Material shall be in accordance with MIL-DTL-8878.
2. Protective treatment: Protective treatment shall be in accordance with MIL-DTL-8878.
3. Heat treatment: Heat Treatment 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  $\pm 0.010$ , angles  $\pm 0.5^\circ$ .
7. Outside diameter (O.D.): O.D. of the "J" dimension may be a flat area.

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## NOTES:

1. The part or identifying number (PIN) consists of the letters MS, the specification sheet number, and a dash number taken from table I. A "C" in lieu of dash indicates 17-4PH; a dash indicates carbon or alloy steel. The first letter following the dash number or letter C indicates direction of thread (left or right hand) and the second letter indicates length (short or long).



MS21253C3LS Indicates - Clevis end, 17-4PH, 0.1900 (#10)-32 left hand thread, short.  
MS21253-3RL Indicates - Clevis end, steel, 0.1900 (#10)-32 right hand thread, long.

2. Remove burrs and sharp edges. (See MIL-DTL-8878.)
3. Dimensions are in inches.
4. Interpret drawing in accordance with ASME Y14.5M.
5. 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.
6. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence.
7. Unless otherwise specified, issues of referenced documents are those in effect at the time of solicitation.
8. For clip locking of turnbuckles, see MS33736 and MIL-DTL-8878.

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CHANGES FROM PREVIOUS ISSUE: The margins of this specification sheet are marked with asterisks to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the previous issue.

Custodians:

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Navy - AS  
Air Force - 99

Preparing Activity:

DLA - GS5  
  
(Project 1560-0021)

Review Activity:

Air Force - 71