INCH-POUND

A-A-59431 20 APRIL 1999

COMMERCIAL ITEM DESCRIPTION

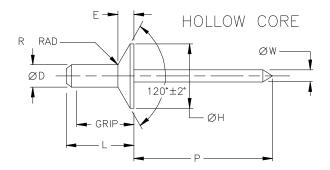
RIVETS, BLIND, NONSTRUCTURAL, RETAINED MANDREL, CLOSED-END, 120° COUNTERSUNK HEAD, ALUMINUM ALLOY

This General Services Administration has authorized the use of this Commercial Item Description for all Federal agencies.

1. <u>SCOPE</u>: This Commercial Item Description (CID) covers the requirements for pull-stem expandable blind rivets. These rivets are intended for rapid and permanent non-structural fastening applications in which access is available to one side only.

2. SALIENT CHARACTERISTICS:

2.1 Blind rivets furnished under this CID shall conform to the materials, strengths, and dimensions as specified in Table I, II, and III and as shown in Figure 1 below.



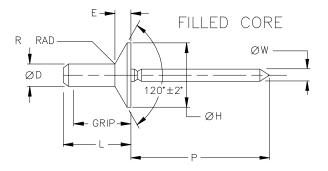


FIGURE 1. RIVETS

BENEFICIAL COMMENTS, RECOMMENDATIONS, ADDITIONS, DELETIONS, CLARIFICATIONS, ETC., AND DATA WHICH MAY IMPROVE THIS DOCUMENT SHOULD BE SENT TO: DEFENSE INDUSTRIAL SUPPLY CENTER, ATTN: DISC-AEEB, 700 ROBBINS AVENUE, PHILADELPHIA, PA 19111-5096.

TABLE I. MATERIAL COMBINATION SYMBOLS AND STRENGTHS

			MINIMUM	MINIMUM
			SHEAR	TENSION
SYMBOL	MATERIAL COMBINATION	RIVET	LOAD	LOAD
		DIA	LBS	LBS
	HOLLOW CORE			
А	Body: 5056 Al Alloy	.125	305	385
	(UNS A95056)	.156	430	605
	Mandrel: 1012-1025 Steel	.188	575	840
	(UNS G10120-G10250)			
	1045-1075 Steel			
	(UNS G10450-G10750)			
	FILLED CORE			
	Body: 5056 Al Alloy	.125	480	280
А	(UNS A95056)	.156	590	480
	Mandrel: 1012-1025 Steel	.188	890	840
	(UNS G10120-G10250)			
	1045-1075 Steel			
	(UNS G10450-G10750)			

TABLE II. BASIC DIMENSIONS

	BASIC DIMENSIONS					
NOM			Е	R	ØW	RECOMMENDED
DIA	ØD	ØН	REF	MAX	REF	HOLE SIZE
.125	.128	.245	.035	.025	.064	.129133
	.124	.221				
.156	.159	.327	.050	.025	.086	.160164
	.155	.297				
.188	.191	.395	.060	.025	.104	.192196
	.186	.355				

ABLE III. DASH NUMBERS AND DIMENSIONS

MATERIAL CO	MBINATIONS			
HOLLOW CORE	FILLED CORE A	L	P MIN	RECOMMENDED GRIP RANGE
A401H	A401F	.257297		.031062
A402H	A402F	.321361		.063125
A403H	A403F	.382422	1.00	.126187
A404H		.446486		.188250
A405H		.508548		.251312
A502H	A502F	.350390		.063125
A503H	A503F	.412452	1.06	.126187
A505H	A505F	.538578		.251312
A602H	A602F	.375415		.063125
A604H	A604F	.500540	1.06	.126250
A606H	A606F	.625665		.251375

2.2 Materials shall be of the type and grade specified in Table I.

2.3 Workmanship. Rivets shall be of uniform quality and free from injurious seams and other injurious defects.

2.4 Single shear load. The shear test shall be performed in accordance with Test Method 20 of NASM1312, or equivalent and shall conform to the data specified in Table I.

2.5 Tension load. The tension test shall be performed in accordance with Test Method 8 of NASM1312, or equivalent and shall conform to the data specified in Table I.

2.6 Packaging requirements The requirements for packaging shall be in accordance with ASTM D3951.

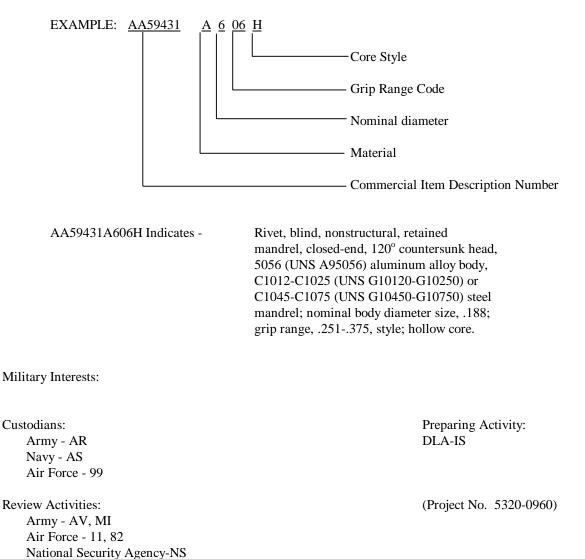
3. QUALITY ASSURANCE PROVISIONS.

3.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and the quality assurance practices, and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

4. <u>NOTES</u>

4.1 All dimensions are in inches.

4.2 The part number shall consist of the basic Commercial Item Description Number followed by a dash number from Table III. The dash number consists of a material combination symbol from Table I, a nominal body diameter size code in thirty-seconds of an inch from Table II, a maximum grip code in sixteenths of an inch from Table III, and a core style code from Table III.



STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

	INS	TRU	JCT	IONS
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1. The preparing activity must complete blocks 1, 2, 3 and 8. In block 1, both the document number and revision letter should be given.

The submitter of this form must complete blocks 4, 5, 6 and 7.
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I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER	2. DOCUMENT DATE (YYMMDD)
	A-A-59431	990420
3. DOCUMENT TITLE:		
	JRAL, RETAINED MANDREL, CLOSI	CD-END, 120° COUNTERSUNK HEAD,
ALUMINUM ALLOY		
4. NATURE OF CHANGE		
	TION	
5. REASON FOR RECOMMENDA	TION	
6. SUBMITTER a. NAME (Last, First, Middle Initial) b. ORGANIZATION	
c. ADDRESS (Include Zip Code)	d. TELEPHONE (Include Area Code)	7. DATE SUBMITTED (YYMMDD)
,	(1) Commercial	
8. PREPARING ACTIVITY DLA-IS	(2) AUTOVON (If applicable)	
a. NAME		E (Include Area Code)
Emelia Altomari	(1) Comm	ercial (215) 697-6827
c. ADDRESS (Include Zip Code)	(2) (DSN)	442-6827 T RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:
C. ADDRESS (Include 2ip Code) Defense Industrial Supply Center		ality and Standardization Office
700 Robbins Avenue	5203 Leest	urg Pike, Suite 1403
Bldg. 3 (Code DISC-AESD)		h, VA 22041
Philadelphia, PA 19111-5096	IELEPHO	NE (703) 756-2340 AUTOVON 289-2340

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