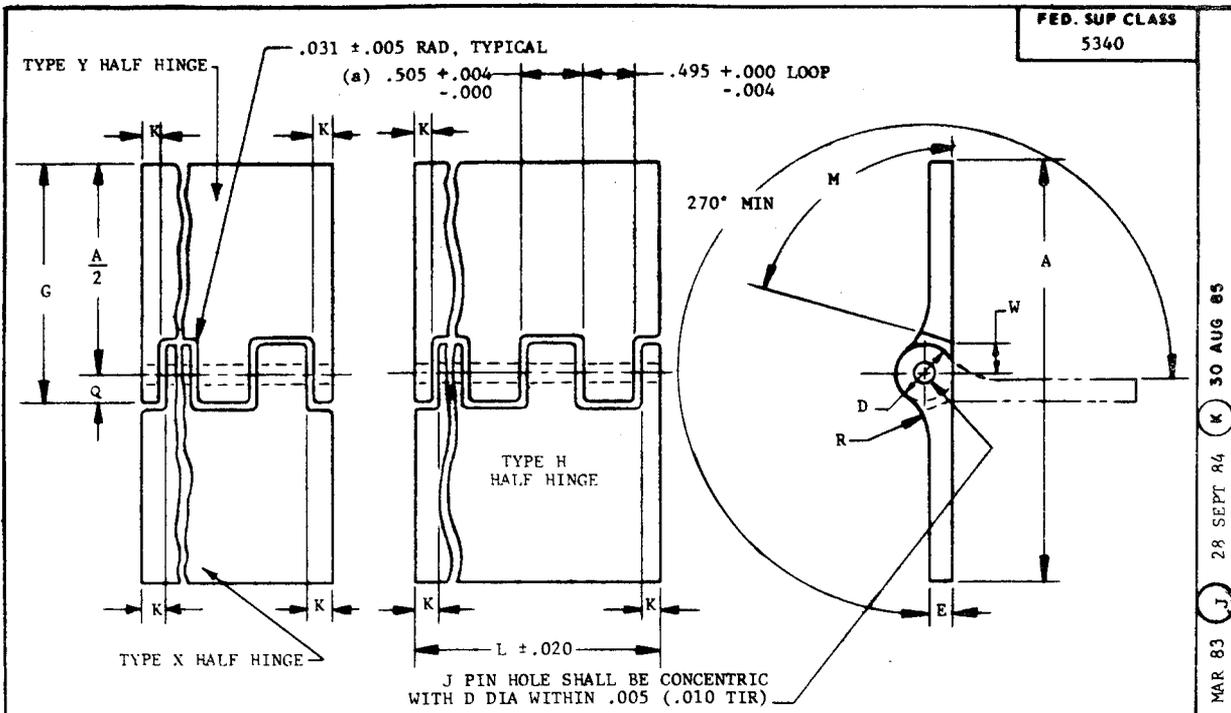


FED. SUP CLASS  
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USER SYMBOLS:  
REVIEWER SYMBOLS:  
DIA - IS

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(K)

TABLE I

DASH NO.	A REF WIDTH OPEN	E		G		Q ±.005	J DIA ±.005 / -.000	(b) K MIN	D DIA		R ±.031 RAD	W ±.016	PIN DIA REF	M ±2°
		MAX	MIN	MAX	MIN				MAX	MIN				
-2	1.062			.630	.612									
-3	1.250			.724	.706									
-4	1.500	.056	.044	.850	.830	.090	.093		.187	.173	.174	.135	.090	75°
-5	1.750			.975	.955									
-6	2.000			1.102	1.078									
-8	2.000	.076	.064	1.167	1.143	.155	.183	.188	.318	.302	.297	.200	.180	
-9	2.500	.056	.044	1.352	1.328	.090	.093		.187	.173	.174	.135	.090	
-10	2.750			1.477	1.453									60°
-12	3.375	.115	.103	1.860	1.828	.156			.320	.304	.375	.188		
-14	3.719	.163	.149	2.086	2.038	.203	.133		.414	.398	.625	.240	.130	45°
-16	3.938	.210	.196	2.243	2.195	.250	.183		.509	.491	.750	.287	.180	
*-17	1.820	.050	.044	1.102	1.078	.090	.093		.187	.173	.174	.135	.090	75°

\* CANCELLED - NO SUPERSEDING PART NUMBER

- (a) TOLERANCES FOR DIMENSIONS ON PITCH SHALL NOT BE CUMULATIVE.
- (b) DIMENSION K MUST NEVER EXCEED A FULL LOOP OR TANG, AND BOTH ENDS MUST BE EQUAL WITHIN .020 INCH.

INTERCHANGEABILITY RELATIONSHIP:  
MS20001 HINGES ARE NOT UNIVERSALLY INTERCHANGEABLE WITH AN252 HINGES. FOR INTERCHANGEABILITY RELATIONSHIP SEE TABLE II.

TABLE II

INTERCHANGEABILITY TABLE		
INACTIVE AND CANCELLED	UNIVERSALLY INTERCHANGEABLE	REPLACEABLE WITH
AN252-1	-----	-----
AN252-2	MS20001-2	-----
AN252-4	MS20001-4	-----
AN252-6	MS20001-6	-----
AN252-8	MS20001-8	-----
AN252-10	MS20001-10	-----

(K) DENOTES CHANGES

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P.A. NAVY - AS Other Cust USAF - 99 ARMY - AV	TITLE	MILITARY STANDARD
	HINGE, BUTT, STRUCTURAL, EXTRUDED	MS20001
PROCUREMENT SPECIFICATION NONE	SUPERSEDES: AN252	SHEET 1 OF 2

APPROVED 25 JAN 51 REVISED F 15 November 1976 (G) 5 September 1980 (H) 2 MAR 83 (J) 28 SEPT 84 (K) 30 AUG 85

FED. SUP CLASS  
5340

REQUIREMENTS:

- (K) 1. MATERIAL: ALUMINUM ALLOY 2024-T3511, PER QQ-A-200/3, OR ALUMINUM ALLOY 7075-T73511, PER QQ-A-200/11 (SEE PART NUMBERING)
- 2. FINISH: ANODIZE IN ACCORDANCE WITH MIL-A-8625, TYPE II; CHEMICAL SURFACE TREAT IN ACCORDANCE WITH MIL-C-5541; (ENDS OF ALL HINGES SHALL BE FINISHED)
- 3. MARKING: INK STAMP MS20001 (DASH NUMBER) REGULAR INTERVALS ALONG LENGTH OF HINGE SO THAT ANY THREE INCH LENGTH WILL HAVE AT LEAST ONE COMPLETE IDENTIFICATION IN FIGURES NOT LESS THAN .060 INCHES HIGH, SEE NOTE 5.
- 4. COMPLETE HINGES SHALL BE FURNISHED AS AN ASSEMBLY WITH CAD PLATED CRES HINGE PINS OF THE SAME LENGTH IN ACCORDANCE WITH MS20253 ~~UNLESS TITANIUM HINGE PINS IN ACCORDANCE WITH MS20253 ARE SPECIFIED~~ (SEE PART NUMBERING)
- 5. DESIGNATION FOR ANODIZING, CHEMICAL SURFACE TREATMENT, HINGE STYLE, AND LENGTH SHALL NOT BE INCLUDED IN MARKING.
- 6. ONLY COMPLETE HINGES TO BE STOCKED BY SERVICES.
- 7. USE MS20257 HINGE WHEREVER LOAD REQUIREMENTS PERMIT.

NOTES:

- 1. DIMENSIONS IN INCHES.
- 2. REMOVE ALL BURRS AND SHARP EDGES.
- 3. TYPE X HALF HINGE MATES WITH TYPE Y HALF HINGE, AS SHOWN.
- 4. TYPE H HALF HINGE MATES WITH TYPE H HALF HINGE.
- 5. FOR SERVICE PROCUREMENT, THE PREFERRED STOCK LENGTH OF COMPLETE HINGES IS 72 INCHES.
- 6. PART NUMBERING: (NOMENCLATURE TO BE INCLUDED ON SHIPPING DOCUMENTS ONLY)  
PART NUMBERING SHALL CONSIST OF THE FOLLOWING (IN SEQUENCE)
  - a. MS20001
  - b. "P" FOR ANODIZED FINISH; "C" FOR CHEMICAL SURFACE TREATMENT; OMISSION OF CODE LETTER WILL INDICATE BARE FINISH.
  - c. "H", "X", OR "Y" TO DESIGNATE HALF HINGE STYLE; OMISSION OF CODE LETTER WILL INDICATE COMPLETE HINGE.
  - (K) d. "A" FOR 7075-T73511 ALUMINUM ALLOY HINGE; OMISSION OF "A" WILL INDICATE 2024-T3511 ALUMINUM ALLOY.
  - ~~e. "T" FOR TITANIUM HINGE PIN (FOR COMPLETE HINGE ONLY); OMISSION OF "T" WILL INDICATE CADMIUM PLATED CRES HINGE PIN.~~
  - f. DASH NUMBER (TABLE I); OMIT DASH IF PRECEDED BY CODE LETTER.
  - g. A DASH FOLLOWED BY LENGTH "L" EXPRESSED IN INCHES AND HUNDREDTHS.

7. EXAMPLES OF PART NUMBERS:

- (K) MS20001-4-1200 = COMPLETE HINGE, BARE FINISH, ALUM. 2024-T3511, CAD PLATED CRES HINGE PIN, 1.500 INCHES WIDE, 12.00 INCHES LONG.
- MS20001CHA4-1200 = TYPE H HALF HINGE, CHEMICAL SURFACE TREATMENT, ALUM. 7075-T73511, 1.500 INCHES WIDE, 12.00 INCHES LONG.
- 8. DO NOT SPECIFY "P" FOR ANODIZE IF HINGE IS TO BE SPOTWELDED.
- 9. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BIDS, OR REQUEST FOR PROPOSAL EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.
- 10. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

USER SYMBOLS:

REVIEWER SYMBOLS:  
DLA - IS

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APPROVED 25 JAN 51 REVISED (K) FOR CHANGES SEE SHEETS 1 AND 2

P.A. NAVY - AS Other Cust USAF - 99 ARMY - AV	TITLE	MILITARY STANDARD	
	HINGE, BUTT, STRUCTURAL, EXTRUDED	MS20001	
PROCUREMENT SPECIFICATION NONE	SUPERSEDES: AN252	SHEET 2	OF 2

DD FORM 672-1 (Coordinated)  
1 MAR 72

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

PLATE NO. 23065