



**TYPICAL RETAINER SECTION  
FOR ALL TYPES  
SYMMETRICAL ABOUT  $\epsilon$**

**MATERIAL:** SEE PROCUREMENT SPECIFICATION  
**FINISH:** SEE PROCUREMENT SPECIFICATION  
**REMOVE ALL BURRS AND SHARP EDGES**

**DIMENSIONS ARE IN INCHES**

**LATCH ELEMENTS ARE OPTIONAL WITHIN ENVELOPES SHOWN**  
**ENVELOPE DIMENSIONS APPLY WHEN THE COUPLING IS IN THE TIGHTENED CONDITION AT THE MAXIMUM AND MINIMUM POSITIONS OF ITS DIAMETRICAL RANGE.**

**EXAMPLES OF PART NUMBER: (00 REPRESENTS DASH NUMBER)**

- MS 27116 -00B • BASIC LATCH COUPLING
- MS 27116 -00R • QUICK COUPLER LATCH COUPLING
- MS 27116 -00BR • BASIC AND QUICK COUPLER COUPLING
- MS 27116 -00BL • T-BOLT LATCH WITH REDUNDANT LATCH COUPLING
- MS 27116 -00RL • QUICK COUPLER LATCH WITH REDUNDANT LATCH COUPLING
- MS 27116 -00BRL • BASIC AND QUICK COUPLER LATCH WITH REDUNDANT LATCH COUPLING

**QUICK COUPLER LATCH COUPLING SHALL CONTAIN ONLY ONE QUICK COUPLER LATCH**  
**CERTAIN PROVISIONS OF THIS STANDARD (PROFILE DIMENSIONS AND FLANGE OD INCREMENT SIZE RANGES) ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT ABC AIR STD 17/19. WHEN REVISION OR CANCELLATION OF THIS STANDARD IS PROPOSED, THE DEPARTMENTAL CUSTODIAN WILL INFORM THEIR RESPECTIVE DEPARTMENTAL STANDARDIZATION OFFICES SO THAT APPROPRIATE ACTION MAY BE TAKEN RESPECTING THE INTERNATIONAL AGREEMENT CONCERNED.**

**FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.**  
**REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID**

© ENTIRE STANDARD REVISED

P.A. USAF-II Other Cast Navy - AS	TITLE COUPLING-CLAMP, GROOVED V-BAND 1.750 TO 14.250 FLANGE O D (-320° F TO +1500° F)	MILITARY STANDARD <b>MS 27116(ASG)</b>
PROCUREMENT SPECIFICATION MIL-C-2753b	SUPERSEDES	
		SHEET 1 OF 2

DD FORM 672-1 (Limited circulation)

\*\*\*Other changes of this form are obsolete\*\*\*

Review activities:  
NAV - AS  
MAY - 11

This military standard is approved by the Department of the Air Force and the NAVY AIR CUSTODIAN GROUP and is mandatory for use by these activities. All other military activities are required to comply with this standard where applicable.

APPROVED 5 MARCH 62 REVISED (A) 29 AUG 62 (B) 15 OCT 63 (C) 1 NOV 66

This military standard is approved by the Department of the Air Force and the NAVY AIR SYSTEMS COMMAND and is mandatory for use by these activities. All other military activities are required to employ this standard where suitable.

Review activities:  
NAVY - A3  
USAF - 11

P.A. USAF-11 Other Cust Navy - AS		TITLE COUPLING-CLAMP, GROOVED V-BAND 1.750 TO 14.250 FLANGE O D (-320°F TO +1500°F)		LATCH ENVELOPE												MIN BOLT DIA		RATED TORQUE (LB IN.)		MAX WT (LB)				FED. SUP CLASS 5320	
DASH NO.	FLANGE OD M2/4543	AXIAL LOAD RATING (LB)	A 1.03 A -.86	B MAX		C MAX		D MAX		E MAX		B		B		B		B		B					
				BL	RL	BL	RL	BL	RL	BL	RL	BL	RL	BL	RL	BL	RL	BL	RL	BL	RL				
01	1.75	10,670	1.88			1.75	1.85											.39	.44	.43	.48				
02	1.88	10,705	2.00			1.88	1.90											.40	.45	.44	.49				
03	2.00	10,745	2.12			1.85	1.95											.41	.46	.45	.50				
04	2.12	10,780	2.25			1.90	2.00											.42	.47	.46	.51				
05	2.25	10,820	2.38			2.00	2.10			.90	1.10	1.10						.43	.48	.47	.52				
06	2.38	10,855	2.50	4.00	4.50	5.00												.43	.48	.47	.52				
07	2.50	10,890	2.62			2.10	2.20											.44	.49	.48	.53				
08	2.62	10,930	2.75			2.20	2.30											.45	.50	.49	.54				
09	2.75	10,970	2.88			2.25	2.35											.46	.51	.50	.55				
10	2.88	16,750	3.00			2.45	2.50											.82	.92	.90	1.00				
11	3.00	16,850	3.12			2.50	2.60											.86	.96	.94	1.04				
12	3.12	17,000	3.25			2.60	2.65											.88	.98	.96	1.06				
13	3.25	17,150	3.38			2.65	2.70											.90	1.00	.98	1.08				
14	3.38	17,300	3.52			2.75	2.85											.95	1.05	1.03	1.13				
15	3.52	17,500	3.66			2.90	2.95											.99	1.09	1.07	1.17				
16	4.00	17,800	4.12			3.00	3.10			.95	1.00							1.03	1.13	1.11	1.21				
17	4.25	18,100	4.38			3.15	3.20											1.10	1.20	1.18	1.28				
18	4.75	18,500	4.88			3.40	3.45											1.18	1.28	1.26	1.36				
19	5.25	19,050	5.38			3.65	3.70											1.25	1.35	1.33	1.43				
20	5.75	19,500	5.88	4.80	5.30	5.80												1.25	1.35	1.33	1.43				
21	6.25	20,000	6.38			4.15	4.20											1.67	1.82	1.75	1.90				
22	6.75	20,500	6.88			4.40	4.45											1.75	1.90	1.83	1.98				
23	7.25	21,000	7.38			4.65	4.70											1.82	1.97	1.90	2.05				
24	7.75	21,500	7.88			4.90	4.95											1.91	2.06	1.99	2.14				
25	8.25	22,000	8.38			5.15	5.20											1.99	2.14	2.07	2.22				
26	8.75	22,700	8.88			5.40	5.45			1.20	1.25							2.07	2.22	2.15	2.30				
27	9.25	23,250	9.38			5.65	5.70											2.15	2.30	2.23	2.38				
28	9.75	23,800	9.88			5.90	5.95											2.22	2.37	2.30	2.45				
29	10.25	24,300	10.38			6.15	6.20											2.31	2.46	2.39	2.54				
30	10.75	24,850	10.88			6.40	6.45											2.39	2.54	2.47	2.62				
31	11.25	25,350	11.38			6.65	6.70											2.47	2.62	2.55	2.70				
32	11.75	25,900	11.88			6.90	6.95											2.55	2.70	2.63	2.78				
33	12.25	26,450	12.38			7.15	7.20											2.62	2.77	2.70	2.85				
34	12.75	27,000	12.88			7.40	7.45											2.71	2.86	2.79	2.94				
35	13.25	27,500	13.38			7.65	7.70											2.79	2.94	2.87	3.02				
36	13.75	28,050	13.88			7.90	7.95											2.87	3.02	2.95	3.10				
37	14.25	28,550	14.38			8.15	8.20											2.94	3.09	3.02	3.17				

APPROVED 5 MARCH 1962 REVISED C FOR CHANGES SEE SHEETS 1 AND 2

MILITARY STANDARD

MS 27116(ASG)

SHEET 2 OF