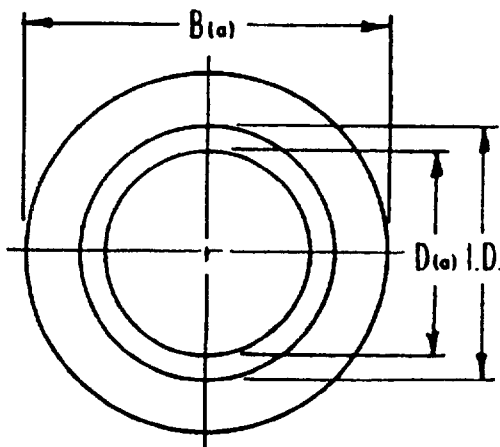
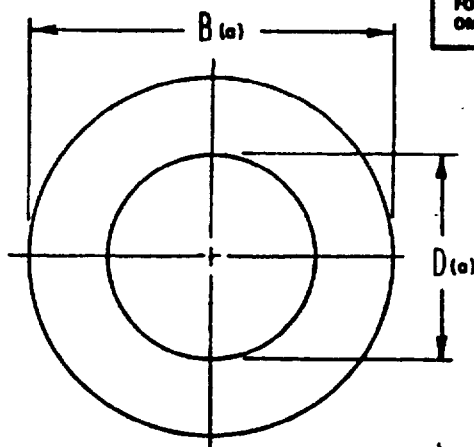


REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THE SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DDSS SPECIFIED IN THE SOLICITATION:



COUNTERSUNK WASHER
(FOR USE UNDER BOLT HEAD)



PLAIN WASHER
(FOR USE UNDER NUT)

FORM APPROVED
OMB NO. 0704-0188

NOMINAL SIZE	DASH NUMBER		B (a)		D (a)		I. D.		V		FLATNESS	APPROX WEIGHT LB/100	
	CSK.	PLAIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX		
#10	C3	3	.372	.362	.195	.191	.290	.280	.069	.057	.007	.13	
1/4	C4	4	.470	.460	.255	.251	.350	.340				.21	
5/16	C5	5	.573	.563	.318	.314	.412	.402				.31	
3/8	C6	6	.679	.669	.380	.376	.507	.497	.085	.071		.43	
7/16	C7	7	.783	.773	.443	.439	.569	.559				.57	
1/2	C8	8	.898	.888	.505	.501	.632	.622				.75	
9/16	C9	9	1.009	.999	.568	.564	.694	.684			.010	.099	.95
5/8	C10	10	1.125	1.115	.631	.627	.788	.778					1.18
3/4	C12	12	1.350	1.340	.756	.752	.913	.903	1.71				
7/8	C14	14	1.572	1.562	.881	.877	1.038	1.028	2.32				
1	C16	16	1.798	1.788	1.006	1.002	1.163	1.153	3.04				
1 1/8	C18	18	2.188	2.178	1.131	1.127	1.288	1.278	.119	.099	.015	4.81	
1 1/4	C20	20	2.260	2.250	1.256	1.252	1.445	1.435				4.84	
1 3/8	C22	22	2.490	2.480	1.381	1.377	1.570	1.560				5.89	
1 1/2	C24	24	2.723	2.713	1.506	1.502	1.695	1.685				7.06	

(a) MINIMUM BEARING AREA BASED ON A BEARING STRESS OF 90 KSI AT THE ULTIMATE TENSILE VALUE OF A 220 KSI BOLT, OR THE FLANGE DIAMETER OF MS21084 NUTS WHICHEVER IS GREATER.

MATERIAL: ALLOY STEEL, MIL-S-6758, MIL-S-18729.

HARDNESS: ROCKWELL C 38-45

SURFACE TEXTURE: 125 MICROINCHES IN ACCORDANCE WITH ANSI B46.1.

PLATING: CADMIUM PLATE, QQ-P-416, TYPE II, CLASS 2.

PARALLELISM: WASHER FACES SHALL BE PARALLEL WITHIN .002 INCHES.

WASHER SHALL BE FREE FROM ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.

DIMENSIONS IN INCHES.

DESIGN AND USAGE INFORMATION: THESE WASHERS ARE PRIMARILY FOR USE WITH MS21133 & MS21084 NUTS AND MS21134 AND MS21297 BOLTS.

EXAMPLE OF PART NUMBER: MS21206-3 WASHER, PLAIN, FOR NO. 10 SIZE, 220 KSI BOLT.
MS21206-C3 WASHER, COUNTERSUNK, FOR NO. 10 SIZE, 220 KSI BOLT.

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.

(A) DENOTES CHANGE

PREPARING ACTIVITY: NAVY - AS

CUSTODIANS: ARMY - AY NAVY -
AIR FORCE - 99 DLA -

REVIEW: AIR FORCE -82

USER:

PROJECT NUMBER: 5310-1785

MILITARY SPECIFICATION SHEET

TITLE

WASHER, COUNTERSUNK AND PLAIN,
FOR USE WITH BOLTS AND NUTS
UP TO AND INCLUDING 220 KSI F_{tu}

SPECIFICATION SHEET NUMBER

MS21206

30 AUG 91

REV A

SUPERSEDING
MS21206

28 JAN 72

AMSC - N/A

FSC 5310

DISTRIBUTION STATEMENT

A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

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THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

Ⓐ INACTIVE FOR NEW DESIGN AFTER 30 SEP 92,
USE MS21299 IN NEW DESIGN.

Ⓐ INTERCHANGEABILITY RELATIONSHIP: MS21299 ITEMS CAN UNIVERSALLY REPLACE
THE INACTIVE MS21206 ITEMS IDENTIFIED BY THE SAME DASH NUMBERS: BUT THE
INACTIVE MS21206 ITEMS CANNOT ALWAYS REPLACE THE SUPERSEDING MS21299 ITEMS.

PREPARING ACTIVITY: NAVY - AS CUSTODIANS: ARMY - AV NAVY - AIR FORCE - 99 DLA - REVIEW: AIR FORCE -82 USER: PROJECT NUMBER: 5310-1785	MILITARY SPECIFICATION SHEET TITLE WASHER, COUNTERSUNK AND PLAIN, FOR USE WITH BOLTS AND NUTS UP TO AND INCLUDING 220 KSI Ftu	SPECIFICATION SHEET NUMBER 30 AUG 91 MS21206 REV A SUPERSEDING MS21206 28 JAN72 AMSC - N/A FBC 5310
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