



SCREW OR BOLT SIZE (NO. OR INCH)	COPPER SILICON ALLOY	AUSTENITIC CORROSION-RESISTING STEEL	O. D.		I. D.		T	
	DASH NO.	DASH NO.	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
8	21	--	0.442	0.432	0.192	0.182	0.065	0.036
10	22	--	.567	.557	.255	.245	.065	.036
1/4	1	11	.760	.740	.322	.302	.080	.051
5/16	2	12	.760	.740	.385	.365	.080	.051
3/8	3	13	.885	.865	.447	.427	.104	.064
1/2	4	14	1.260	1.240	.572	.552	.132	.086
5/8	5	15	1.510	1.490	.697	.677	.160	.108
3/4	6	16	1.760	1.740	.822	.802	.177	.122
7/8	7	17	2.010	1.990	.947	.927	.192	.136
1	8	18	2.260	2.240	1.072	1.052	.192	.136
1-3/8	9	19	3.010	2.990	1.322	1.302	.213	.153
1-1/2	10	20	3.260	3.240	1.572	1.552	.213	.153

NOTES

- MATERIAL: COPPER-SILICON ALLOY SHALL BE IN ACCORDANCE WITH QQ-C-591, COPPER ALLOY NO. 651. AUSTENITIC CORROSION RESISTING STEEL SHALL BE IN ACCORDANCE WITH CLASS 1, 2, 5 OR 8 OF QQ-S-786, FINISH NUMBER 2.
- TENSILE STRENGTH: MINIMUM, TENSILE STRENGTH SHALL BE 50,000 P. S. I.
- PERMEABILITY: THE MAGNETIC PERMEABILITY OF THE CORROSION RESISTING STEEL WASHERS SHALL BE 2.0 MAXIMUM WHEN TESTED WITH A PERMEABILITY INDICATOR IN ACCORDANCE WITH MIL-1-17214.
- PROTECTIVE COATING: PASSIVATE IN ACCORDANCE WITH QQ-F-35.
- DIMENSIONS: ALL DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE SPECIFIED.
- REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BIDS. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

This standard has been approved by the Naval Ship Engineering Center, Department of the Navy, and is mandatory for use by their activity. All other military activities are required to employ this standard where suitable.

PROJECT 5310-10345h

P.A. SHIPS Other Cust	TITLE WASHERS, FLAT, METAL, ROUND, MEDIUM SERIES, NONMAGNETIC	MILITARY STANDARD
		MS16212(SHIPS)
PROCUREMENT SPECIFICATION (B) FF-W-92	SUPERSEDES:	SHEET 1 OF 1

APPROVED 8 MAY 1957 REVISED 8 MARCH 1967