

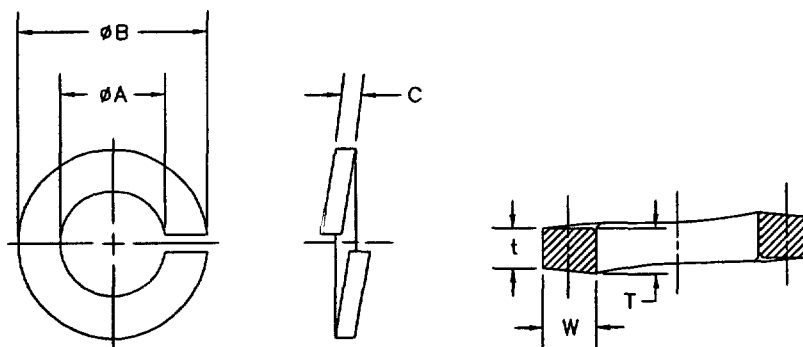
A-A-55612
 30 JANUARY 1995
 SUPERSEDING
 MS51848 E
 13 DEC 93

COMMERCIAL ITEM DESCRIPTION

WASHER, LOCK-HELICAL SPRING, HI-COLLAR

THE GENERAL SERVICES ADMINISTRATION HAS AUTHORIZED THIS COMMERCIAL ITEM DESCRIPTION FOR ALL FEDERAL AGENCIES

1. SCOPE: THIS COMMERCIAL ITEM DESCRIPTION (CID) DEPICTS THE REQUIREMENTS FOR HI-COLLAR HELICAL SPRING LOCK WASHERS.
2. SALIENT CHARACTERISTICS.
 - 2.1. MATERIAL SHALL BE:
 STEEL, CARBON, IN ACCORDANCE WITH ASME B18.21.1.
 CORROSION-RESISTANT STEEL (NON-MAGNETIC) WASHERS SHALL BE TYPE 316 (UNS S31600) THRU 1/4 AND TYPE 300 SERIES (UNS S30200 TO UNS S31600) FOR ALL OTHER SIZES.
 - 2.1. FINISHES SHALL BE:
 CARBON STEEL WASHERS - MECHANICALLY DEPOSITED ZINC; PHOSPHATE COATING.
 CORROSION-RESISTANT STEEL WASHERS - PASSIVATED.



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

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TABLE I. DASH NUMBERS AND DIMENSIONS

NOMINAL SIZE	CARBON STEEL		GRES 300 SERIES	øA (ID)		øB (OD)	WASHER SECTION	
	ZINC	PHOS					W WIDTH	C THICKNESS $\frac{I+t}{2}$
	DASH NUMBERS						MIN	MAX
NO.0 (.060)	1	21	41	.062	.068	.112	.018	.018
NO.2 (.086)	3	23	43	.088	.094	.146	.022	.022
NO.4 (.112)	5	25	45	.114	.120	.173	.022	.022
NO.6 (.138)	7	27	47	.141	.148	.216	.030	.030
NO.8 (.164)	8	28	48	.167	.174	.267	.042	.047
NO.10 (.190)	9	29	49	.193	.200	.294	.042	.047
1/4 (.250)	10	30	50	.252	.260	.363	.047	.078
5/16 (.312)	11	31	51	.314	.322	.457	.062	.093
3/8 (.375)	12	32	52	.377	.385	.550	.076	.125
7/16 (.437)	13	33	53	.440	.450	.644	.090	.140
1/2 (.500)	14	34	54	.502	.512	.733	.103	.172
5/8 (.625)	15	-	55	.628	.641	.917	.125	.203
3/4 (.750)	16	-	-	.753	.766	1.105	.154	.218
7/8 (.875)	17	-	-	.878	.894	1.291	.182	.234
1 (1.000)	18	-	-	1.003	1.024	1.478	.208	.250

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3. QUALITY CONFORMANCE PROVISIONS:

- 3.1. THE SUPPLIERS SHALL BE RESPONSIBLE FOR THOSE IN PROCESS CONTROLS AND INSPECTIONS NECESSARY TO SUPPLY A PRODUCT CONSISTENTLY CONFORMING TO THE REQUIREMENTS OF THIS DOCUMENT.
- 3.2. UPON REQUEST, THE SUPPLIER WILL CERTIFY WITH DOCUMENTED TEST/INSPECTION EVIDENCE, THAT THE PART SUPPLIED MEET THE REQUIREMENTS OF THIS DOCUMENT.

4. NOTES:

- 4.1. DIMENSIONS ARE IN INCHES.
- 4.2. SOME SIZES ON THIS CID ARE NOT COVERED IN ASME B18.21.1.
- 4.3. THE PART IDENTIFYING NUMBER (PIN) SHALL CONSIST OF THE BASIC CID NUMBER PLUS A DASH NUMBER TAKEN FROM TABLE I.

EXAMPLE: AA55612 - 10

└── DASH NUMBER

└── BASIC CID NUMBER

AA55612-10 INDICATES: WASHER, LOCK-HELICAL SPRING, HIGH COLLAR, 1/4 NOMINAL SIZE, CARBON STEEL, ZINC PLATING

TABLE II. CROSS - REFERENCE TABLE.

CANCELLED MS PIN	REPLACEMENT CID PIN
MS51848 - * 1/	AA55612 - * 1/

1/ * REPRESENTS THE SAME DESIGNATION CODES FOR BOTH MS AND CID PINS.

MILITARY INTERESTSCUSTODIANS

NAVY - AS
ARMY - AR
AIR FORCE - 99

PREPARING ACTIVITY

DLA-IS

(PROJECT: 5310-1976)

REVIEWER:

NAVY - MC, OS, SH, YD
ARMY - AT, AV, GL, ME, MI
AIR FORCE - 82
NSA -NS