

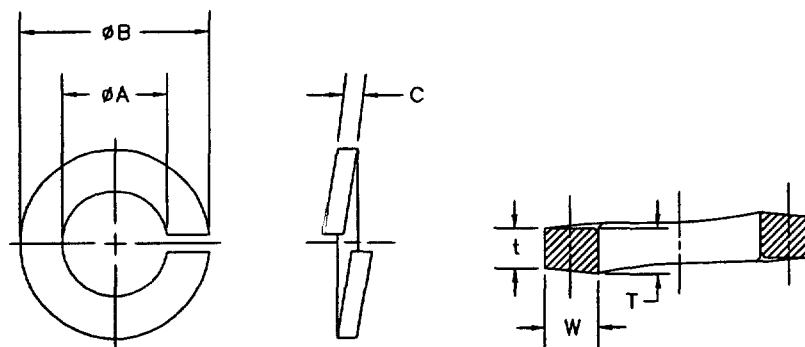
A-A-55612
 30 JANUARY 1995
 SUPERSEDING
 MS51848 E
 13 DEC 93

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 | | CRES 300 SERIES | øA (ID) | | øB (OD) | WASHER SECTION | |
|-----------------|--------------|------|-----------------------|------------|-------|------------|----------------|-----------------------------------|
| | ZINC | PHOS | | | | | W WIDTH | C THICKNESS $\frac{T+t}{2}$ |
| | DASH NUMBERS | | | MIN | MAX | MAX | MIN | MIN |
| 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