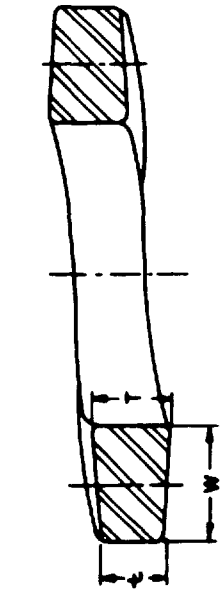


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| NOMINAL SIZE | INSIDE DIAMETER - A - | | WIDTH - W - | | THICKNESS - C - | | OUTSIDE DIAMETER - B - | | STEEL | | | CORROSION RESISTING | | PHOSPHOR BRONZE | | | | |
|--------------|-----------------------|-------|-------------|------|-----------------|------|------------------------|------|------------------|--------------------------|----------|---------------------|----------|-----------------|----------|---------|----------|----------|
| | MAX | MIN | MIN | MAX | MAX | MIN | MAX | MIN | PLAIN (UNCOATED) | CADMIUM OR ZINC OPTIONAL | | PHOSPHATE | | PASSIVATED | | CADMIUM | | |
| | DASH NO. | FIIN | DASH NO. | FIIN | DASH NO. | FIIN | DASH NO. | FIIN | DASH NO. | FIIN | DASH NO. | FIIN | DASH NO. | FIIN | DASH NO. | FIIN | DASH NO. | FIIN |
| #2 | .086 | .097 | .030 | .021 | .015 | .021 | .165 | 1 | 019-2298 | 20 | 39 | 58 | 77 | 058-2990 | 96 | | | |
| #4 | .112 | .124 | .035 | .026 | .020 | .026 | .202 | 2 | 011-8871 | 21 | 40 | 59 | 78 | 058-2949 | 97 | | | |
| #6 | .138 | .151 | .040 | .031 | .025 | .031 | .239 | 3 | 011-8872 | 22 | 41 | 60 | 79 | 043-1754 | 98 | | | |
| #8 | .164 | .176 | .047 | .037 | .031 | .037 | .280 | 4 | 011-8873 | 23 | 42 | 61 | 80 | 042-9067 | 99 | | | |
| #10 | .190 | .205 | .055 | .046 | .040 | .046 | .323 | 5 | 011-8873 | 24 | 43 | 62 | 81 | 058-2951 | 100 | | | |
| 1/4 | .255 | .267 | .107 | .097 | .047 | .097 | .489 | 6 | 011-3114 | 25 | 44 | 63 | 82 | 043-5862 | 101 | | | |
| 3/16 | .319 | .333 | .117 | .086 | .056 | .086 | .576 | 7 | 011-2723 | 26 | 45 | 64 | 83 | | 102 | | | |
| 1/8 | .382 | .398 | .136 | .095 | .070 | .095 | .678 | 8 | 011-0730 | 27 | 46 | 65 | 84 | | 103 | | | |
| 7/16 | .446 | .464 | .154 | .109 | .085 | .109 | .780 | 9 | 011-0405 | 28 | 47 | 66 | 85 | | 104 | | | |
| 1/2 | .509 | .529 | .170 | .123 | .099 | .123 | .877 | 10 | 010-6500 | 29 | 48 | 67 | 86 | | 105 | | | 261-7125 |
| 9/16 | .573 | .595 | .186 | .136 | .113 | .136 | .975 | 11 | 011-2724 | 30 | 49 | 68 | 87 | | 106 | | | 189-6811 |
| 5/8 | .636 | .660 | .201 | .146 | .126 | .146 | 1.082 | 12 | 010-3334 | 31 | 50 | 69 | 88 | | 107 | | | |
| 3/4 | .701 | .727 | .223 | .163 | .153 | .163 | 1.277 | 13 | 010-3335 | 32 | 51 | 70 | 89 | | 108 | | | |
| 7/8 | .763 | .791 | .244 | .183 | .173 | .183 | 1.470 | 14 | 010-3336 | 33 | 52 | 71 | 90 | | 109 | | | |
| 1 | .822 | .850 | .269 | .202 | .202 | .202 | 1.656 | 15 | 011-7661 | 34 | 53 | 72 | 91 | | 110 | | | |
| 1-1/8 | 1.017 | 1.053 | .314 | .244 | .224 | .244 | 1.837 | 16 | 187-3202 | 35 | 54 | 73 | 92 | | 111 | | | |
| 1-1/4 | 1.184 | 1.231 | .336 | .264 | .244 | .264 | 2.012 | 17 | 011-7613 | 36 | 55 | 74 | 93 | | 112 | | | |
| 1-3/8 | 1.315 | 1.368 | .356 | .284 | .264 | .284 | 2.183 | 18 | 011-8028 | 37 | 56 | 75 | 94 | | 113 | | | |
| 1-1/2 | 1.446 | 1.505 | .375 | .302 | .282 | .302 | 2.352 | 19 | 011-8029 | 38 | 57 | 76 | 95 | | 114 | | | |



CUSTOMERS
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N-SHIPS
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OTHER INT.
ACES 10T
MCOB ASY

MILITARY STANDARD
WASHER, LOCK, SPLIT, HELICAL, LIGHT SERIES

MS35337

PROCUREMENT SPECIFICATION
FF-W-84

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CANCELLED AFTER 21 MAR 1966
FOR REPLACEMENT AND NEW DESIGN
USE MS35338.

(B) MATERIAL: STEEL, CARBON, F51080, ROCKWELL "C" 45-53, SPECIFICATION QQ-S-633.
CORROSION RESISTING STEEL, FEDERAL STANDARD NO. 66, STEEL NUMBERS 302 ROCKWELL "C" 35-43 OR 420 ROCKWELL "C" 43-53.
PHOSPHOR BRONZE, SPECIFICATION QQ-B-746, COMPOSITION A, HARD.
PROTECTIVE COATING:
CADMIUM PLATE, SPECIFICATION QQ-P-416, TYPE II, CLASS C.
ZINC PLATE, SPECIFICATION QQ-Z-323, TYPE II, CLASS 3.
PHOSPHATE, SPECIFICATION MIL-C-16232, TYPE II.

DIMENSIONS: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
PART NUMBER: THE MS PART NUMBER CONSISTS OF THE MS NUMBER, PLUS THE DASH NUMBER. EXAMPLE: MS35337-1.
NOTES: (1) REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON INVITATIONS FOR BID.
(2) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
(3) THIS DOCUMENT HAS BEEN PROMULGATED BY THE DEPARTMENT OF DEFENSE AS THE MILITARY STANDARD TO LIMIT THE SELECTION OF THE ITEM, PRODUCT OR DESIGN COVERED HEREIN IN ENGINEERING, DESIGN AND PROCUREMENT. THIS STANDARD SHALL BECOME EFFECTIVE NOT LATER THAN 90 DAYS AFTER THE LATEST DATE OF APPROVAL SHEET.

FED. SUP. CLASS
5310

APPROVED MAR 4 1964 REVISED 18 APRIL 56 (B) 21 MAR 1966