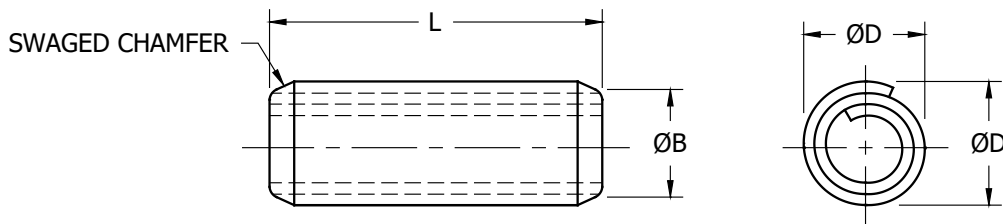


FED. SUPPLY CLASS

5315



(2)

TABLE I – DIMENSIONS

| NOMINAL DIAMETER | ØD<br>ACTUAL (FREE) STATE |      | ØB<br>CHAMFER<br>MAX | MINIMUM DOUBLE SHEAR<br>STRENGTH LBF |             | RECOMMENDED<br>HOLE SIZE |      |
|------------------|---------------------------|------|----------------------|--------------------------------------|-------------|--------------------------|------|
|                  | MAX                       | MIN  |                      | CARBON STEEL<br>1070 THRU 1095       | CRES<br>302 | MAX                      | MIN  |
| .063             | .073                      | .067 | .059                 | 170 /1/                              | 135         | .065                     | .061 |
| .078             | .089                      | .083 | .075                 | 275 /1/                              | 225         | .081                     | .077 |
| .094             | .106                      | .099 | .091                 | 375                                  | 300         | .097                     | .093 |
| .109             | .121                      | .114 | .106                 | 525                                  | 425         | .112                     | .108 |
| .125             | .139                      | .131 | .121                 | 675                                  | 550         | .129                     | .124 |
| .156             | .172                      | .163 | .152                 | 1,100                                | 875         | .160                     | .155 |
| .188             | .207                      | .196 | .182                 | 1,500                                | 1,200       | .192                     | .185 |
| .219             | .240                      | .228 | .214                 | 2,100                                | 1,700       | .224                     | .217 |
| .250             | .273                      | .260 | .243                 | 2,700                                | 2,200       | .256                     | .247 |
| .313             | .339                      | .324 | .304                 | 4,400                                | 3,500       | .319                     | .308 |
| .375 /1/         | .405                      | .388 | .366                 | 6,000                                | 5,000       | .383                     | .370 |
| .438 /1/         | .471                      | .452 | .427                 | 8,400                                | 6,700       | .446                     | .431 |
| .500 /1/         | .537                      | .516 | .488                 | 11,000                               | 8,800       | .510                     | .493 |

**MATERIAL:**

STEEL, CARBON, 1070 THRU 1095 (UNS G10700 THRU UNS G10950) PER ~~FED-STD-66~~ AIR4127.  
CRES 302 (UNS S30200) PER ~~FED-STD-66~~ AIR4127.

**HEAT TREATMENT:**

STEEL, CARBON; 46-53 HRC.  
CRES 302; WORK HARDENED.

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS51987, REVISION A. PART NUMBERS REMAIN MS51987.



THIRD  
ANGLE  
PROJECTION

PROCUREMENT  
SPECIFICATION

NASM10971

CUSTODIAN

NATIONAL AEROSPACE STANDARDS COMMITTEE

TITLE

**PIN, SPRING, TUBULAR, COILED, LIGHT DUTY**

REVISION

**2**

CLASSIFICATION  
PART STANDARD

**NASM51987**

**FINISH:**

STEEL, CARBON, CADMIUM PLATED PER AMS-QQ-P-416, TYPE II, CLASS 3.  
STEEL, CARBON, PHOSPHATE COATED PER MIL-DTL-16232, TYPE Z, CLASS 2.  
STEEL, CORROSION RESISTING, PASSIVATED PER AMS2700, METHOD 1, CLASS 4.

**CODE:**

② MS51987 - 13  
BASIC NUMBER ——— DASH NUMBER  
(SEE TABLE II, III, IV)

**EXAMPLE OF PART NUMBER:**

② MS51987-13 = PIN, SPRING, CARBON STEEL, CADMIUM PLATED, .094 NOMINAL DIAMETER, .375 LENGTH

**NOTES:**

- /1/ NOT MANUFACTURED
- (2) REMOVE ALL BURRS AND SHARP EDGES.
- (3) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (4) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- (5) TOLERANCES UNLESS OTHERWISE SPECIFIED:  
LENGTH L:  
② ALL DIAMETERS THRU .375:  
±.010 FOR LENGTHS THRU 2.000  
±.015 FOR LENGTHS OVER 2.000 THRU 3.000  
±.025 FOR LENGTHS OVER 3.000  
ALL DIAMETERS LARGER THAN .375:  
±.025 FOR ALL LENGTHS
- (6) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (7) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (8) FOR FUNCTIONAL LIMITATIONS ON USAGE OF SPRING PINS, SEE NASM33547.
- (9) ~~PATENT NUMBER 2737843 PATENTED 13 MARCH 1956. THE GOVERNMENT HAS A ROYALTY FREE LICENSE UNDER THIS PATENT FOR THE BENEFIT OF MANUFACTURERS OF THIS ITEM EITHER FOR THE GOVERNMENT OR FOR THE USE IN EQUIPMENT TO BE DELIVERED TO THE GOVERNMENT.~~
- (10) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- /11/ INACTIVATED. DO NOT USE FOR NEW DESIGN.
- ② (12) FOR DESCRIPTION OF STATUS NOTES SEE NAS380.

REVISION

**2**

**NASM51987**

SHEET 2



Document Sharing Hub

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