

FED. SUPPLY CLASS

5315

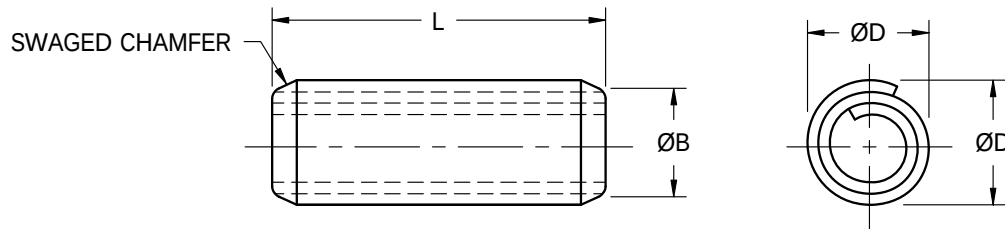


TABLE I – DIMENSIONS

NOMINAL DIAMETER	ØD ACTUAL (FREE) STATE		ØB CHAMFER MAX	MINIMUM DOUBLE SHEAR STRENGTH LBF		RECOMMENDED HOLE SIZE	
	MAX	MIN		CARBON STEEL 1070 THRU 1095	CRES 302	MAX	MIN
1/16	.073	.067	.059	170 /1/	135	.065	.061
5/64	.089	.083	.075	275 /1/	225	.081	.077
3/32	.106	.099	.091	375	300	.097	.093
7/64	.121	.114	.106	525	425	.112	.108
1/8	.139	.131	.121	675	550	.129	.124
5/32	.172	.163	.152	1,100	875	.160	.155
3/16	.207	.196	.182	1,500	1,200	.192	.185
7/32	.240	.228	.214	2,100	1,700	.224	.217
1/4	.273	.260	.243	2,700	2,200	.256	.247
5/16	.339	.324	.304	4,400	3,500	.319	.308
3/8 /1/	.405	.388	.366	6,000	5,000	.383	.370
7/16 /1/	.471	.452	.427	8,400	6,700	.446	.431
1/2 /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.

① COMPLETELY REVISED

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

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION NASM10971	TITLE PIN, SPRING, TUBULAR, COILED, LIGHT DUTY	CLASSIFICATION PART STANDARD
		NASM51987 SHEET 1 OF 6

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:

THE MS PART NUMBER CONSISTS OF THE MS NUMBER PLUS A DASH NUMBER FROM TABLE II.

EXAMPLE OF PART NUMBER:

MS51987-13 = PIN, SPRING, CARBON STEEL, CADMIUM PLATED, 3/32 NOMINAL DIAMETER, 3/8 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:
ALL DIAMETERS THRU 3/8":
±.010 FOR LENGTHS THRU 2"
±.015 FOR LENGTHS OVER 2" THRU 3"
±.025 FOR LENGTHS OVER 3"
ALL DIAMETERS LARGER THAN 3/8":
±.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.

REVISION

1

NASM51987

SHEET 2

① COMPLETELY REVISED