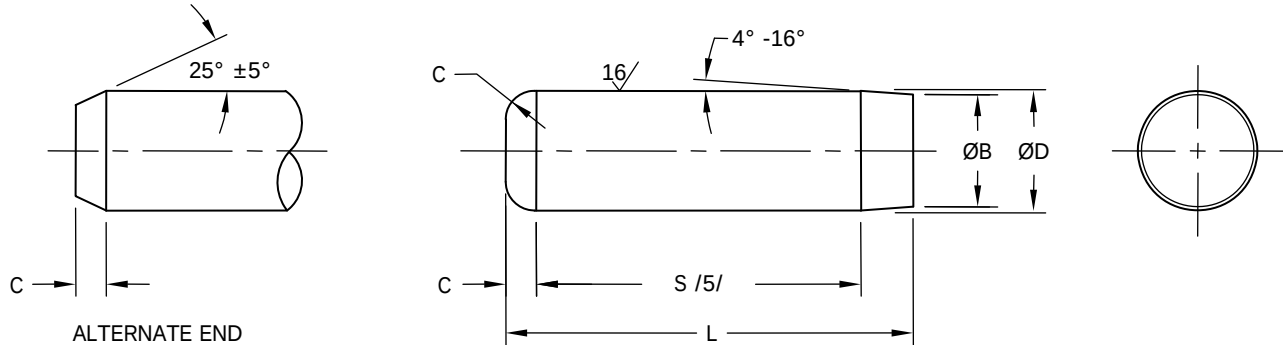


FED. SUPPLY CLASS

5315



② TABLE I – DIMENSIONS

NOMINAL SIZE	ØD		ØB POINT		C CROWN HEIGHT AND RADIUS		DOUBLE SHEAR STRENGTH LBF MIN	
	MAX	MIN	MAX	MIN	MAX	MIN	CARBON OR ALLOY STEEL	CRES
.0625	.0636	.0634	.058	.042	.020	.008	800	610
.0781 /7/	.0792	.0790	.074	.058	.026	.010	1,240	700
.0938	.0949	.0947	.090	.074	.031	.012	1,800	1,000
.1250	.1261	.1259	.121	.105	.041	.016	3,200	1,800
.1562 /7/	.1573	.1571	.152	.136	.052	.020	5,000	2,800
.1875	.1886	.1884	.183	.167	.062	.023	7,200	4,000
.2500	.2511	.2509	.246	.230	.083	.031	12,800	7,200
.3125	.3136	.3134	.309	.293	.104	.039	20,000	11,000
.3750	.3761	.3759	.371	.355	.125	.047	28,000	16,000
.4375	.4386	.4384	.433	.417	.146	.055	38,000	22,000
.5000	.5011	.5009	.496	.480	.167	.063	50,000	29,000
.6250	.6261	.6259	.621	.605	.208	.078	78,000	45,000
.7500	.7511	.7509	.746	.730	.250	.094	114,000	65,000
.8750	.8761	.8759	.871	.855	.293	.109	156,000	88,000
1.0000	1.0011	1.0009	.996	.980	.333	.125	204,000	110,000

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS16556, REVISION B, AMENDMENT 1. PART NUMBERS REMAIN MS16556.

THIRD ANGLE PROJECTION		CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 2
PROCUREMENT SPECIFICATION NASM21143		TITLE PIN, STRAIGHT, HEADLESS (DOWEL) (.001 OVER NOMINAL SIZE)	CLASSIFICATION PART STANDARD
			NASM16556 SHEET 1 OF 6

MATERIAL:

CARBON OR ALLOY STEEL IN ACCORDANCE WITH ~~FED-STD-66~~ SAE AIR4127, EXCEPT THAT THE MAXIMUM SULFUR AND PHOSPHORUS CONTENT SHALL BE .05 AND .04 %, RESPECTIVELY.

CORROSION-RESISTING STEEL IN ACCORDANCE WITH ~~FED-STD-66~~ SAE AIR4127, TYPE 410 OR 416.

HARDNESS:

CARBON OR ALLOY STEEL PINS SHALL HAVE A CORE HARDNESS OF 47-58 HRC AND A CASE HARDNESS OF 60 HRC MINIMUM. THE MINIMUM CASE DEPTH SHALL BE .010 INCH FOR NOMINAL SIZES .1562 AND SMALLER, AND .015 INCH FOR LARGER SIZES. THE CORE HARDNESS SHALL NOT AT ANY TIME EXCEED THE CASE HARDNESS. CORROSION-RESISTING PINS SHALL HAVE A HARDNESS OF 36-42 HRC.

CARBON AND ALLOY STEEL PINS 1/16 INCH AND LESS IN DIAMETER MAY HAVE A HARDNESS OF 58-64 HRC THROUGHOUT.

FINISH:

CARBON OR ALLOY STEEL:

- PLAIN (MAY BE FURNISHED WITH BLACK OXIDE COATING IN ACCORDANCE WITH MIL-DTL-13924, CLASS 1).
- PHOSPHATE COATED IN ACCORDANCE WITH MIL-DTL-16232, TYPE Z, CLASS 2.
- CADMIUM PLATED IN ACCORDANCE WITH TYPE II, CLASS 3 OF AMS-QQ-P-416 OR AMS-C-81562.

CORROSION-RESISTING STEEL:

- PASSIVATED IN ACCORDANCE WITH AMS 2700, METHOD 1, CLASS 4.

EXAMPLE OF PART NUMBER:

THE MS PART NUMBER CONSISTS OF THE MS NUMBER, PLUS THE DASH NUMBER. EXAMPLE: MS16556-1.

NOTES:

- (1) ALL DIMENSIONS ARE IN INCHES AND APPLY AFTER FINISH, UNLESS OTHERWISE SPECIFIED.
- (2) 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.
- (3) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (4) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- /5/ EFFECTIVE LENGTH "S" SHALL BE A MINIMUM OF 75% OF TOTAL PIN LENGTH "L".
- (6) REMOVE ALL BURRS AND SHARP EDGES.
- /7/ INACTIVE FOR NEW DESIGN AFTER 8 APR 1975.
- (2) (8) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- (2) (9) SURFACE ROUGHNESS: PRIOR TO COATING, LENGTH "S" SHALL BE 16 MICROINCHES Ra; ALL OTHER SURFACES 125 MICROINCHES Ra PER ASME B46.1. SURFACE TEXTURE SYMBOLS SHALL BE IN ACCORDANCE WITH ASME Y14.36M.

REVISION

2

NAS Documents

SHEET 2



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