

THIS ILLUSTRATION OF THE HANDLE IS FOR IDENTIFICATION PURPOSES ONLY AND IS NOT INTENDED TO RESTRICT DESIGNS AND SHAPES WHICH WILL OTHERWISE CONFORM TO SPECIFICATION REQUIREMENTS AND ARE WITHIN ENVELOPE DIMENSIONS.

FED. SUPPLY CLASS

5315

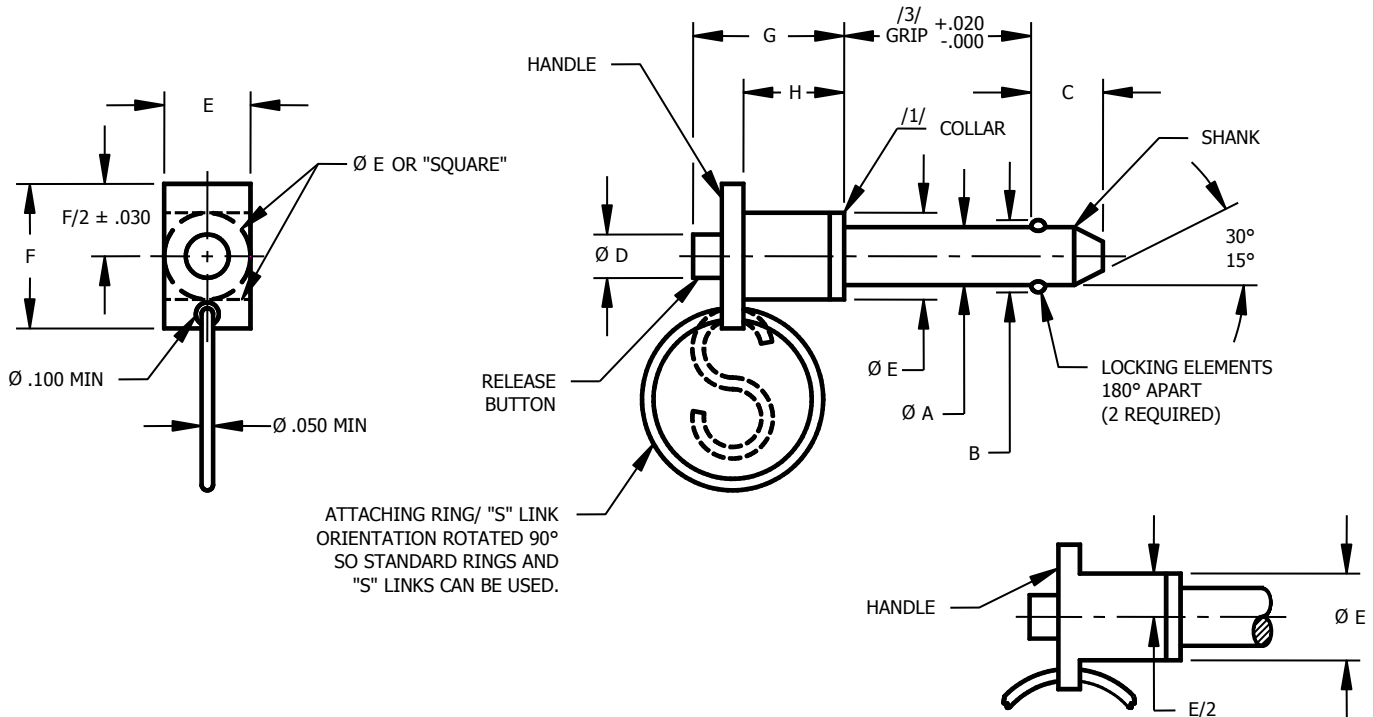


TABLE I – DIMENSIONS AND MECHANICAL PROPERTIES

	NOMINAL DIAMETER	Ø A		B ±.005	C +.000 −.040	ØD		ØE		F		G MAX	H MIN	DOUBLE SHEAR LBF MIN	TENSILE STRENGTH LBF MIN	RECOMMENDED HOLE DIAMETER	
		MAX	MIN			MAX	MIN	MAX	MIN	MAX	MIN					MAX	MIN
/2/	3/16	.1885	.1870	.220	.260	.310	.250	.500	.380	1.815	1.750	1.270	.800	5,150	200	.194	.190
	1/4	.2485	.2470	.289	.290	.310	.250	.500	.380	1.815	1.750	1.270	.800	9,200	230	.254	.250
	5/16	.3110	.3095	.375	.330	.310	.250	.500	.380	1.815	1.750	1.270	.800	14,400	510	.317	.313
/2/	3/8	.3735	.3720	.440	.365	.390	.300	.625	.510	2.065	1.935	1.450	.850	20,600	575	.379	.375
	7/16	.4360	.4345	.509	.380	.390	.300	.625	.510	2.065	1.935	1.470	.850	28,000	710	.443	.438
	1/2	.4985	.4970	.594	.460	.565	.435	.800	.630	2.345	2.220	1.600	.885	36,800	1,160	.505	.500
/2/	9/16	.5610	.5595	.666	.510	.565	.435	.800	.630	2.345	2.220	1.600	.885	46,000	1,420	.568	.563
	5/8	.6235	.6220	.750	.580	.580	.450	.975	.810	3.100	2.250	1.700	.980	57,500	2,070	.630	.625
	3/4	.7485	.7470	.887	.670	.700	.570	1.000	.810	3.100	2.500	1.720	1.030	82,500	2,950	.757	.750
	7/8	.8735	.8720	1.046	.760	.840	.700	1.320	1.120	3.520	2.750	2.170	1.310	112,500	3,900	.882	.875
	1	.9985	.9970	1.219	.890	.950	.750	1.320	1.180	3.520	2.750	2.170	1.310	147,000	5,480	1.010	1.000

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS17985, REVISION G, PART NUMBERS REMAIN MS17985

THIRD ANGLE PROJECTION	
PROCUREMENT SPECIFICATION	NAS1332

CUSTODIAN	NATIONAL AEROSPACE STANDARDS COMMITTEE
TITLE	PIN, QUICK RELEASE, SELF-RETAINING, POSITIVE LOCKING, SINGLE ACTING, "T" HANDLE

REVISION	2
CLASSIFICATION	PART STANDARD
NAS17985	SHEET 1 OF 7

MATERIAL:

ATTACHING LINK OR RING:

CRES 17-7PH (UNS S17700) WITH SPRING TEMPER PER AMS5678 OR
CRES 302 (UNS S30200) PER ASTM A313/A313M.

COLLAR:

CRES 301 (UNS S30100), CRES 302 (UNS S30200), CRES 303 (UNS S30300) OR
CRES 304 (UNS S30400), ALL PER ASTM A484/A484M, ASTM A581/A581M, ASTM A582/A582M, OR ASTM
A240/A240M. ~~OR QQ-S-766.~~

HANDLE AND BUTTON:

CRES 303 (UNS S30300) PER ASTM A484/A484M, ASTM A581/A581M, OR ASTM A582/A582M.
ALUMINUM ALLOY 380 (UNS A03800) PER ~~QQ-A-591~~ ASTM B85/B85M, OR AMS4291.
ALUMINUM ALLOY 2011 (UNS A92011) PER ASTM B211 ~~QQ-A-225/3.~~
ALUMINUM ALLOY 2017 (UNS A92017) PER AMS-QQ-A-225/5.
ALUMINUM ALLOY 2024 (UNS A92024) PER AMS-QQ-A-225/6.
ALUMINUM ALLOY 6061-T6 (UNS A96061) PER AMS-QQ-A-200/8 OR AMS-QQ-A-225/8.

LOCKING ELEMENTS:

CRES CL440C (UNS S44004) PER AMS5630 OR AMS5880.

SHANK AND SPINDLE:

CRES 17-4PH (UNS S17400) PER AMS5643 OR PH15-7MO (UNS S15700) PER AMS5520 OR AMS5657.

SPRING:

CRES 17-7PH (UNS S17700) PER AMS5678 OR CRES 302 (UNS S30200) CLASS 1 PER ASTM A313/A313M.

HEAT TREATMENT:

SHANK AND SPINDLE PER AMS2759, CONDITION H-900 FOR CRES 17-4PH, AND
CONDITION CH-900 FOR PH15-7MO, HRC40 MINIMUM.

LOCKING ELEMENTS AND SPRING PER AMS2759.

FINISH:

CRES PARTS - PASSIVATE PER AMS2700, OPTION FOR METHOD 1 OR METHOD 2, CLASS 4.

②

WHEN SPECIFIED, PASSIVATE PER AMS2700, METHOD 2, CLASS 4 NO POST TREATMENT; OR PASSIVATE PER
AMS2700, METHOD 1, TYPE 8, CLASS 4, NO POST TREATMENT.

ALUMINUM ALLOY PARTS - ANODIZE PER MIL-A-8625, TYPE I OR II, CLASS 2 OR
CHEMICAL FILM PER MIL-DTL-5541, CLASS 1A. HANDLES MUST BE BLACK.

EXAMPLE OF PART NUMBER:

MS17985 C 4 10 X

②

FINISH CODE:

NO CODE = PASSIVATE PER AMS2700, METHOD 1 OR 2, CLASS 4
B = PASSIVATE PER AMS2700, METHOD 2, CLASS 4, NO POST TREATMENT
M = PASSIVATE PER AMS2700, METHOD 1, TYPE 8, CLASS 4, NO POST
TREATMENT

GRIP IN TENTHS

SHANK DIAMETER IN SIXTEENTHS

MATERIAL "C" – CORROSION RESISTANT STEEL PIN

BASIC NUMBER

REVISION

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MS17985

SHEET 2



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NOTES:

- /1/ COLLAR IS MANDATORY ON PINS HAVING ALUMINUM ALLOY HANDLES AND IS OPTIONAL ON PINS WITH CRES HANDLES.
- /2/ FOR COST PURPOSES 1/4, 1/2 AND 5/8 INCH PINS ARE PREFERRED OVER 3/16, 7/16 AND 9/16 INCH PINS RESPECTIVELY.
- /3/ GRIP SHALL BE MEASURED TO THE EDGE OF THE LOCKING ELEMENT HOLE PRIOR TO STAKING.
- (4) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (5) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
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- (7) 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.
- (8) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

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FORM 12-01

REVISION

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NAS17985

SHEET 3

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