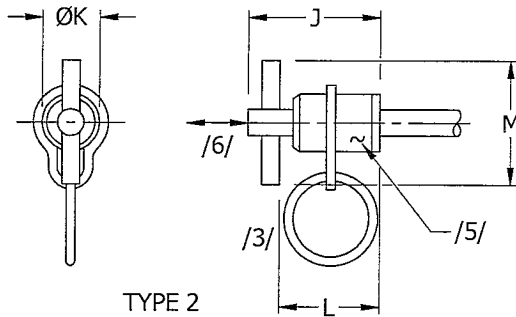
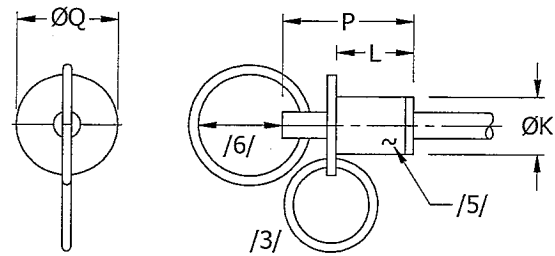


FED. SUPPLY CLASS

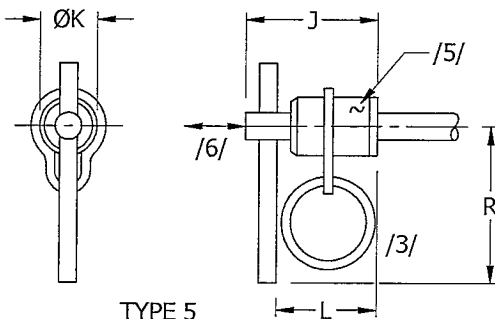
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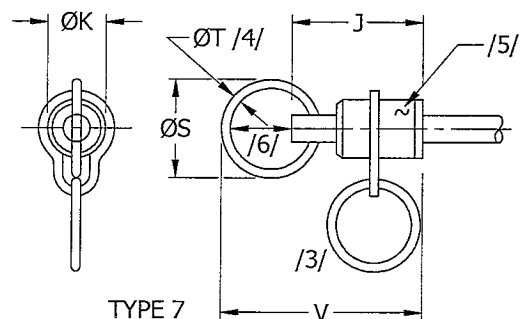
TYPE 2



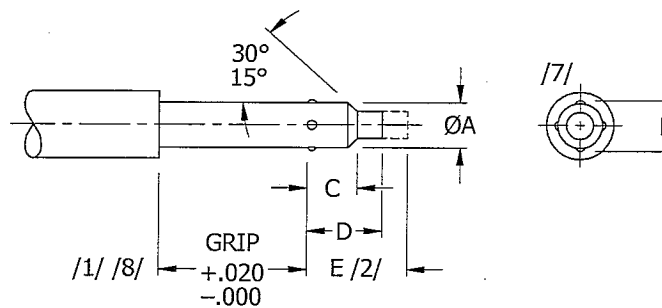
TYPE 3 /10/



TYPE 5



TYPE 7



AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1000 WILSON BLVD.
ARLINGTON, VA 22209

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST REVISION DATE.

REVISION DATE: JUNE 29, 2012

ISSUE DATE: JULY 1959

⑦ COMPLETELY REVISED

THIRD ANGLE PROJECTION 	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 7
PROCUREMENT SPECIFICATION NAS1332	TITLE PIN, QUICK RELEASE, POSITIVE LOCKING, DOUBLE ACTING	CLASSIFICATION PART STANDARD NAS1353 THRU 1366 SHEET 1 OF 5

TABLE I – DIMENSIONS AND STRENGTH VALUES

BASIC PART NO.	NOM DIA /11/	ØA		B ±.005	C MAX	D MAX	E MAX	J MAX	ØK		L MIN
		MAX	MIN						MAX	MIN	
NAS1353	.1875	.1885	.1870	.220	.410	.500	.640	1.730	.450	.360	.740
NAS1354	.2500	.2485	.2470	.289	.410	.500	.640	1.730	.450	.360	.740
NAS1355	.3125	.3110	.3095	.375	.440	.550	.680	1.730	.505	.390	.740
NAS1356	.3750	.3735	.3720	.440	.510	.640	.790	1.730	.630	.510	.740
NAS1357	.4375	.4360	.4345	.509	.510	.640	.790	2.180	.630	.510	.810
NAS1358	.5000	.4985	.4970	.594	.590	.780	.920	2.180	.755	.640	.810
NAS1359	.5625	.5610	.5595	.666	.660	.820	1.020	2.180	.755	.640	.810
NAS1360	.6250	.6235	.6220	.750	.750	.930	1.150	2.340	.870	.805	.880
NAS1361	.7500	.7485	.7470	.887	.790	1.000	1.190	2.560	.960	.890	.930
NAS1362	.8750	.8735	.8720	1.046	.950	1.180	1.440	2.700	1.150	1.070	1.120
NAS1363	1.0000	.9985	.9970	1.219	1.100	1.360	1.650	3.020	1.280	1.200	1.130
NAS1364	THESE NUMBERS RESERVED FOR FUTURE ASSIGNMENT TO SIZES ABOVE 1.000 DIAMETER.										
NAS1365											
NAS1366											

TABLE I – DIMENSIONS AND STRENGTH VALUES (CONTINUED)

BASIC PART NO.	M		P	ØQ	R	ØS	ØT	V	DOUBLE SHEAR LBF MIN /9/	
	MAX	MIN							STEEL	CRES
NAS1353	2.000	1.375	1.290	1.200	1.750	1.000	.080	1.945	4,600	5,150
NAS1354	2.000	1.375	1.290	1.200	1.750	1.000	.080	1.945	8,200	9,200
NAS1355	2.000	1.375	1.290	1.200	1.750	1.000	.080	2.000	12,800	14,400
NAS1356	2.000	1.700	1.290	1.200	1.750	1.000	.080	2.140	18,400	20,700
NAS1357	2.250	1.875	1.340	1.390	1.880	1.000	.080	2.330	25,000	28,500
NAS1358	2.500	2.125	1.340	1.390	2.000	1.000	.080	2.330	32,800	36,900
NAS1359	2.500	2.125	1.340	1.390	2.000	1.000	.080	2.400	41,600	46,700
NAS1360	3.000	2.180	1.560	1.450	2.500	1.312	.080	3.200	51,400	57,800
NAS1361	3.000	2.375	1.680	1.580	2.500	1.312	.120	3.200	74,000	83,200
NAS1362	3.500	2.680	1.690	1.920	2.900	1.312	.120	3.270	100,000	112,500
NAS1363	3.500	2.680	1.890	2.060	2.900	1.312	.120	3.270	131,000	147,200
NAS1364	THESE NUMBERS RESERVED FOR FUTURE ASSIGNMENT TO SIZES ABOVE 1.000 DIAMETER.									
NAS1365										
NAS1366										

MATERIAL:

CRES PINS:

- ATTACHING LINK OR RING: CRES 17-7PH (UNS S17700) WITH SPRING TEMPER PER AMS5678, OR CRES 302 (UNS S30200) PER ASTM A313/A313M.
- ATTACHING LINK BAND: CRES 302 (UNS S30200) OR CRES 303 (UNS S30300) PER ASTM A240/A240M, OR CRES 304 (UNS S30400) PER AMS5513.
- BUTTON: AL ALLOY 2017 (UNS A92017) PER AMS-QQ-A-225/5, AL ALLOY 2024 (UNS A92024) PER AMS-QQ-A-225/6, CRES 302 (UNS S30200) PER AMS-QQ-S-763, OR CRES 303 (UNS S30300) PER ASTM A484/A484M, ASTM A 582/A 582M OR AMS5640.
- HANDLE: CRES 302 (UNS S30200) PER AMS-QQ-S-763, OR CRES 303 (UNS S30300) PER ASTM A484/A484M, ASTM A 582/A 582M OR AMS5640.
- HEAD: CRES 302 (UNS S30200) PER AMS-QQ-S-763, OR CRES 303 (UNS S30300) PER ASTM A484/A484M, ASTM A 582/A 582M OR AMS5640.

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- LOCKING ELEMENTS: CRES CL440C (UNS S44004) PER AMS5630, AMS5880, AMS-QQ-S-763 OR MIL-B-1083 ASTM F 2215.
- SHANK AND SPINDLE: CRES 17-4PH (UNS S17400) PER AMS5643, CRES 15-5PH (UNS S15500) PER AMS5659, CRES 15-7MO (UNS S15700) PER AMS5520 OR AMS5657, OR CRES 17-7PH (UNS S17700) PER AMS5568.
- SPRING: CRES 17-7PH (UNS S17700) WITH TEMPER PER AMS5678, OR CRES 302 (UNS S30200) CLASS 1 PER ASTM A313/A313M.

ALLOY STEEL PINS /12/:

- ATTACHING LINK OR RING: CARBON STEEL WIRE PER AMS-QQ-W-428, MUSIC WIRE 1086 (UNS G10860) PER ASTM A 228/A 228M, CRES 17-7PH (UNS S17700) WITH SPRING TEMPER PER AMS5678, OR CRES 302 (UNS S30200) PER ASTM A313/A313M.
- ATTACHING LINK BAND: CARBON STEEL PER QQ-S-698, CRES 302 (UNS S30200) OR CRES 303 (UNS S30300) PER ASTM A240/A240M, OR CRES 304 (UNS S30400) PER AMS5513.
- BUTTON: AL ALLOY 2017 (UNS A92017) PER AMS-QQ-A-225/5, AL ALLOY 2024 (UNS A92024) PER AMS-QQ-A-225/6, ALLOY STEEL 4130 (UNS G41300) PER MIL-S-6758 AMS-S-6758, OR CARBON STEEL PER ASTM A 108.
- HANDLE: ALLOY STEEL 4130 (UNS G41300) PER MIL-S-6758 AMS-S-6758, CARBON STEEL PER ASTM A 108, CRES 302 (UNS S30200) PER AMS-QQ-S-763, OR CRES 303 (UNS S30300) PER ASTM A484/A484M, ASTM A 582/A 582M OR AMS5640.
- HEAD: ALLOY STEEL 4130 (UNS G41300) PER AMS-S-6758, OR AMS-T-6736 AMS6360, AMS6361 OR AMS6362, OR CARBON STEEL PER ASTM A 108.
- LOCKING ELEMENTS: CRES CL 440C (UNS S44004) PER AMS5630, AMS5880, AMS-QQ-S-763 OR MIL-B-1083 ASTM F 2215.
- SHANK AND SPINDLE: ALLOY STEEL PINS SHALL BE FABRICATED FROM MATERIALS CONFORMING TO ~~AMS6530 (UNS G86300)~~ AMS6360 (UNS G41300), AMS-S-6758 (UNS G41300), ~~AMS-T-6735~~ AMS6365 (UNS G41350), OR ~~AMS-T-6736~~ AMS6360, AMS6361 OR AMS6362 (UNS G41300).
- SPRING: MUSIC WIRE 1086 (UNS G10860) PER ASTM A 228/A 228M, CRES 17-7PH (UNS S17700) WITH TEMPER PER AMS5678, OR CRES 302 (UNS S30200) CLASS 1 PER ASTM A313/A313M.

HEAT TREATMENT:

CRES PINS:

- SHANK AND SPINDLE: PER AMS2759, TO 40HRC MIN.
- LOCKING ELEMENTS: PER AMS2759, TO 58 - 62HRC.
- RING AND SPRING: PER AMS2759, CONDITION CH 900 FOR CRES 17-7PH.

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SHEET 3

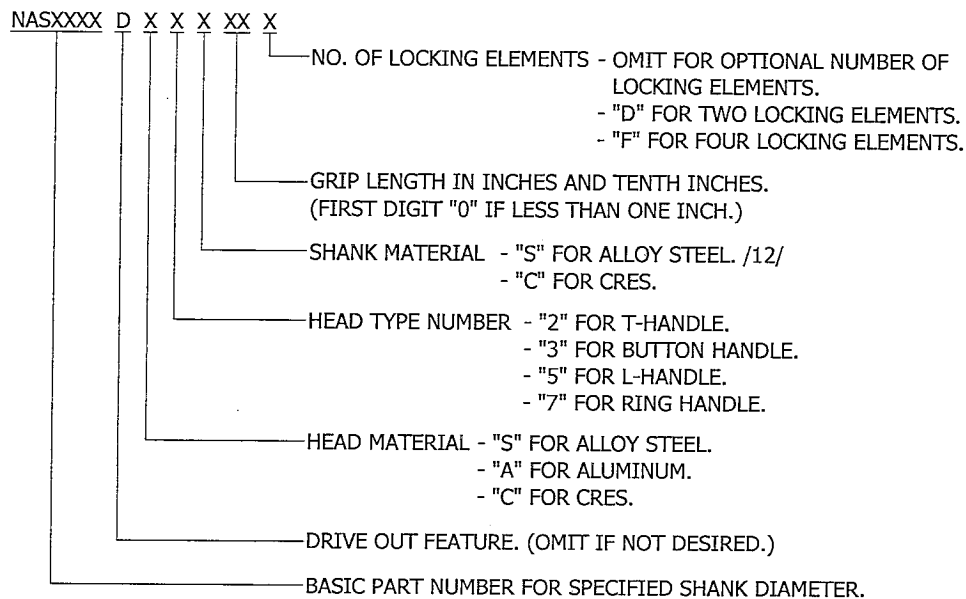
ALLOY STEEL PINS:

- SHANK AND SPINDLE: PER AMS2759, TO 36 - 40HRC.
- LOCKING ELEMENTS: PER AMS2759, TO 58 - 62HRC.
- RING AND SPRING: PER AMS2759, CONDITION CH 900 FOR CRES 17-7PH.

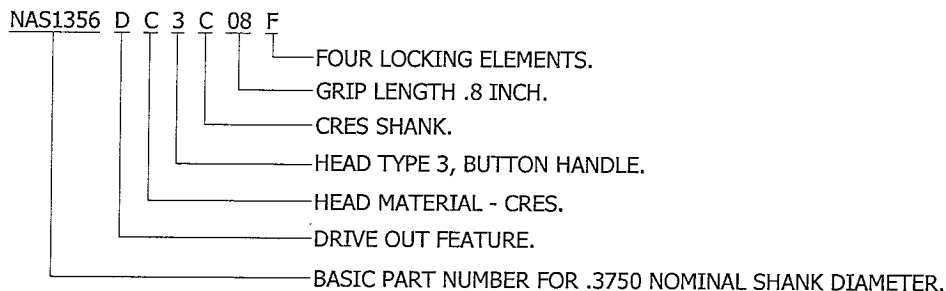
FINISH:

CRES PARTS SHALL BE PASSIVATED PER PROCUREMENT SPECIFICATION. ALLOY STEEL PARTS, OTHER THAN CRES, SHALL BE CADMIUM PLATED PER AMS-QQ-P-416, TYPE II, CLASS 2. ALUMINUM PARTS SHALL BE ANODIZED PER MIL-A-8625 OR GIVEN A CHEMICAL FILM PER MIL-DTL-5541. ALUMINUM HEADS SHALL BE BLACK PER PROCUREMENT SPECIFICATION. REMOVAL OF SUPPLEMENTARY CHROMATE TREATMENT ON ALLOY STEEL PINS OR ANODIZED SURFACE DUE TO FABRICATION TECHNIQUES AND HANDLING SHALL NOT BE CAUSE FOR REJECTION, PROVIDED THE SCRATCHES DO NOT PENETRATE THE CADMIUM PLATING OR ANODIZED LAYER AND EXPOSE THE BASE MATERIAL.

CODE:



EXAMPLE OF PART NUMBER:



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SHEET 4

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NOTES:

- /1/ GRIP LENGTH IN TENTH INCH INCREMENTS FROM .1 THRU 9.9 INCHES.
- /2/ ADDITIONAL CLEARANCE FOR DRIVE OUT FEATURE.
- /3/ STEEL OR CRES ATTACHING RING OR HOOK IS MANDATORY ON ALL PINS AND SHALL NOT BE JOINED TO OR BE PART OF THE RELEASE MECHANISM. SIZE, SHAPE, AND METHOD OF JOINING HOOK TO PIN ARE OPTIONAL.
- /4/ WIRE FORM BAILS SHALL BE STEEL OR CRES.
- /5/ AS A MINIMUM, THE BASIC PART NUMBER WITH DASH NUMBER INDICATING GRIP LENGTH ONLY, MANUFACTURER'S TRADE MARK, AND OPERATING INSTRUCTIONS SHALL APPEAR ON THE HEAD IN FIGURES RAISED OR INDENTED .010 MAX - .006 MIN PER SPECIFICATION NAS1332.
- /6/ DOUBLE ACTING – A PUSH OR PULL ON THE HANDLE OR RELEASE ELEMENT RETRACTS THE LOCKING MECHANISM. THE LOCKING ELEMENT(S) CAN BE DEPRESSED ONLY WHEN THE MECHANISM IS ACTUATED.
- /7/ NUMBER OF LOCKING ELEMENTS OPTIONAL. SEE SHEET 4 FOR CODING.
- /8/ GRIP SHALL BE MEASURED TO EDGE OF THE LOCKING ELEMENT HOLE PRIOR TO STAKING.
- /9/ SHEAR VALUES: SEE PROCUREMENT SPECIFICATION.
- /10/ TYPE 3 IS INACTIVE.
- /11/ FOR STANDARDIZATION PURPOSES, .2500, .5000 AND .6250 INCH PINS ARE PREFERRED OVER .1875, .4375 AND .5625 INCH PINS RESPECTIVELY.
- /12/ ALLOY STEEL PINS INACTIVE FOR DESIGN AFTER SEPTEMBER 30, 2004. FOR DESCRIPTION OF STATUS NOTES, SEE NAS380.
- (13) DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.
- (14) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (15) HEAD DIMENSIONS ARE ENVELOPE DIMENSIONS AND ARE FOR DESIGN REFERENCE. SHANK DIAMETER ARE PER NAS618, "FASTENER, RECOMMENDED SHANK, HOLE AND HEAD-TO-SHANK FILLET RADIUS LIMITS FOR".
- (16) SHANK STRAIGHTNESS: SEE PROCUREMENT SPECIFICATION.
- (17) SURFACE ROUGHNESS: SEE PROCUREMENT SPECIFICATION.
- (18) PINS SHALL BE FREE OF BURRS WITH ALL SHARP CORNERS ROUNDED.
- (19) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (20) 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.
- (21) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.

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SHEET 5