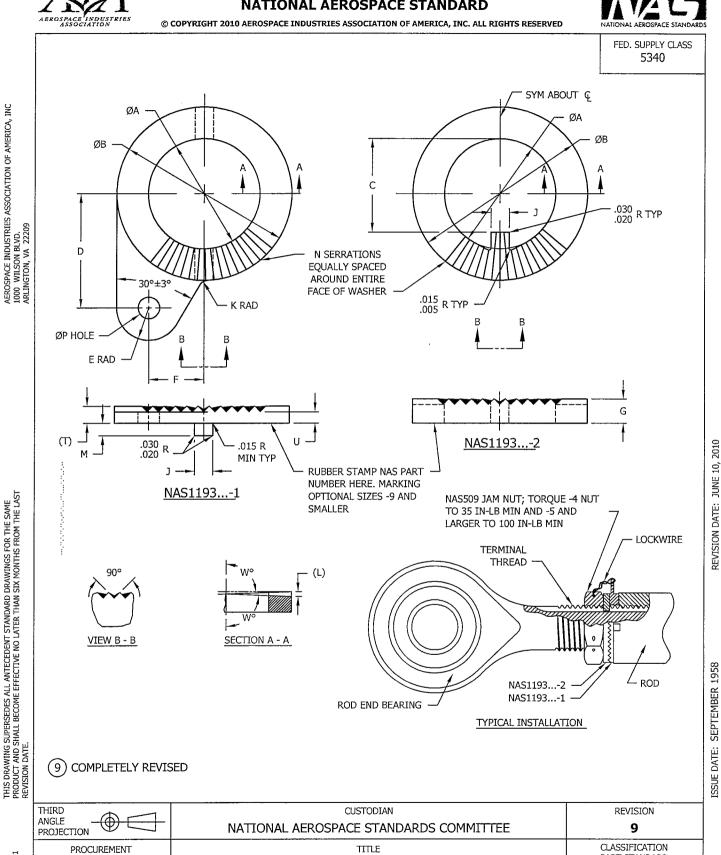




PART STANDARD

NAS1193

SHEET 1 OF 4



FORM 09-01

SPECIFICATION

NONE

LOCKING DEVICE,

POSITIVE INDEX





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FIRST	TERMINAL	ØΑ	ØВ	С		D	E	F	G]	K	(L)	М	N	ØΡ	(T)	U	W°
DASH	THREAD		+.02				RAD	1	±.005	±.005	RAD		±.005	NUMBER			±.005	±30′
NO.	SIZE		00											OF				
	REF			<u> </u>	1									SERRATIONS				
4	.2500-28	.260±.005	.44	.211		.330		.127	.070	.052	.026		.036	36	.062	.043		87°30'
5	.3125-24	.323±.005	.50	.270		.330	.093	.157	.070	.052	.026	.018	.036	42	.062	.043	.023	87°51'
6	.3750-24	.385±.005	.56	.321	+.000		.093	.187	.070	.082	.041	.021	.036	42	.062	.043	.022	87°51'
7	.4375-20	.448±.005	.63	.380	005	.360	.093	.222	.080	.082	.041	.020	.049	50	.062	.043	.023	88°12'
8	.5000-20	.510±.005	.75	.446	.005	.440	.093	.282	.080	.082	.041	.024	.049	50	.062	.055	.031	88°12'
9	.5625-18	.575±.008	.88	.488		.510	.093	.347	.090	.114	.057	.025	.057	56	.071	.055	.031	89°50'
10	.6250-18	.638±.008	1.00	.551		.580	.106	.394	.090	.114	.057	.028	.057	56	.071	.062	.034	89°50'
12	.7500-16	.763±.008	1.12	.678		.604	.106	.454	.100	.114	.057	.028	.057	64	.071	.062	.034	89°51'
14	.8750-14	.888±.008	1.31	.792	+.000	.698	.120	.535	.100	.142	.071	.029	.066	72	.080	.062	.033	89°53'
A16	1.0000-14	1.015±.010	1.50	.915	010	.715	.135	.615	.100	.142	.071	.033	.074	72	.090	.078	.044	89°53'
16	1.0000-12	1.015±.010	1.50	.915		.715	.135	.615	.100	.142	.071	.028	.074	84	.090	.072	.044	89°54'
18	1.1250-12	1.140±.010	1.62	1.030		.836	.135	.675	.100	.174	.087	.030	.074	84	.090	.078	.048	89°54'
20	1.2500-12	1.265±.010	1.75	1.156	+.000	.942	.168	.707	.100	.174	.087	.033	.096	84	.112	.081	.048	89°54'
22	1.3750-12	1.390±.010	1.88	1.256	015	.982	.168	.772	.100	.236	.118	.035	.096	84	.112	.081	.043	89°54'
24	1.5000-12	1.515±.010	2.00	1.381		1.026	.168	.832	.100	.236	.118	.038	.096	84	.112	.081	.043	89°54'
26	1.6250-12	1.640±.010	2.12	1.502		1.080	.175	.888	.100	.236	.118	.040	.109	84	.125	.083	.043	89°54'
28	1.7500-12	1.765±.010	2.25	1.615		1.130	.175	.950	.100	.298	.149	.042	.109	84	.125	.085	.043	89°54'
30	1.8750-12	1.890±.010	2.38	1.740	+.000	1.165	.175	1.013	.100	.298	.149	.045	.109	84	.125	.088	.043	89°54'
32	2.0000-12	2.015±.010		1.865	020	1.255		1.138	.100	.298	.149	.049	.109	84	.125	.092		89°54'
34		2.140±.010		1.980		1.293		1.200	.100	.298	.149	.051	.109	84	.125	.094		89°54'
36		2.265±.010		2.105		1.328		1.263	.100	.298	.149	.054	.109	84	.125	.097		89°54'
_ 50_	L.L.550 12			00				05	50		12	.00 1	.205	٥,		.037	10 10	05 51

MATERIAL:

STEEL INVESTMENT CASTING TYPE 410 PER SPECIFICATION AMSS350 EXCEPT FOR NO CODE: HEAT TREAT. FOR USE UP TO 450°F.

"K" CODE - 17-4PH CORROSION RESISTANT STEEL INVESTMENT CASTING, 180-200 KSI. HEAT TREAT PER AMS5355. FOR USE UP TO 800°F.

"E" CODE - 17-4PH CORROSION RESISTANT STEEL INVESTMENT CASTING, 150-170 KSI. HEAT TREAT PER AMS5343. FOR USE UP TO 800°F.

HEAT TREATMENT:

NO CODE: TYPE 410 MATERIAL, 180,000-200,000 PSI PER AMS H 6875

"K" CODE - 17-4PH CRES - 180-200 KSI PER AMS5355 EXCEPT HARDNESS NOT TO EXCEED ROCKWELL C44 MAX.

"E" CODE -- 17-4PH CRES - 150-170 KSI PER AMS5343 EXCEPT HARDNESS NOT TO EXCEED ROCKWELL C40 MAX.

FINISH:

TYPE 410 MATERIAL, CADMIUM PLATE PER AMS QQ P-416 TYPE II, CLASS 2, PARTS-WITH CLASS 3 PLATING MAY BE FURNISHED UNTIL __

17-4PH CRES: NO CODE - NONE

"P" CODE - CADMIUM PLATE PER AMS-QQ-P-416 TYPE II, CLASS 2

COMPLETELY REVISED

REVISION 9 NAS1193 SHEET 2



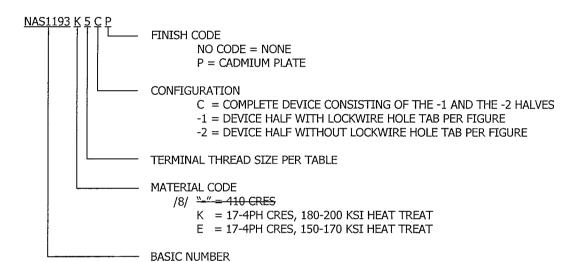


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CODE:

- /8/ NO CODE LETTER (A DASH) FOLLOWING BASIC PART NUMBER DESIGNATES TYPE 410 MATERIAL FOR USE-UP-TO 450°F:
 - "K" FOLLOWING BASIC PART NUMBER DESIGNATES 17-4PH MATERIAL 180-200 KSI HEAT TREAT FOR USE UP TO 800°F.
 - "E" FOLLOWING BASIC PART NUMBER DESIGNATES 17-4PH MATERIAL 150-170 KSI HEAT TREAT FOR USE UP TO 800°F.
 - FIRST DASH NUMBER DESIGNATES TERMINAL THREAD SIZE AS DESIGNATED IN TABLE.
 - "C" FOLLOWING THE FIRST DASH NUMBER DESIGNATES A COMPLETE LOCKING DEVICE CONSISTING OF THE -1 AND -2 HALVES.
 - THE SECOND DASH NUMBER DESIGNATES LOCKING DEVICE HALF AS SHOWN IN FIGURE AND AS DIMENSIONED IN TABLE.
 - THE SUFFIX LETTER "P" FOLLOWING THE "C" CODE OR SECOND DASH NUMBER DESIGNATES CADMIUM PLATE FINISH FOR USE UP TO 400°F.

EXAMPLE OF PART NUMBER:



- /8/ NAS1193-5C = A POSITIVE INDEXING DEVICE ASSEMBLY OF THE TYPE 410 MATERIAL FOR USE ON A .3125-24
 THREADED TERMINAL AND CONSISTING OF AN NAS1193-5-1 HALF-AND AN NAS1193-5-2 HALF-
 - NAS1193K5C = A POSITIVE INDEXING LOCKING DEVICE ASSEMBLY OF 17-4PH CRES, 180-200 KSI HEAT TREAT, FOR USE ON A .3125-24 THREADED TERMINAL AND CONSISTING OF AN NAS1193K5-1 HALF AND AN NAS1193K5-2 HALF.
 - NAS1193K5CP = A POSITIVE INDEXING LOCKING DEVICE ASSEMBLY OF CADMIUM PLATED 17-4PH CRES, 180-200 KSI HEAT TREAT, FOR USE ON A .3125-24 THREADED TERMINAL AND CONSISTING OF AN NAS1193K5-1P HALF AND AN NAS1193K5-2P HALF.
 - NAS1193K5-1 = A POSITIVE INDEXING LOCK WASHER HALF OF THE CONFIGURATION AS SHOWN IN FIGURE, 17-4PH CRES, 180-200 KSI HEAT TREAT, FOR USE WITH A .3125-24 THREADED TERMINAL.
 - NAS1193K5-2 = A POSITIVE INDEXING LOCK WASHER HALF OF THE CONFIGURATION AS SHOWN IN FIGURE, 17-4PH CRES, 180-200 KSI HEAT TREAT, FOR USE WITH A .3125-24 THREADED TERMINAL.
 - NAS1193E5C = A POSITIVE INDEXING LOCKING DEVICE ASSEMBLY OF 17-4PH CRES, 150-170 KSI HEAT TREAT, FOR USE ON A .3125-24 THREADED TERMINAL AND CONSISTING OF AN NAS1193E5-1 HALF AND AN NAS1193E5-2 HALF.

REVISION

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NAS1193 SHEET 3

(9) COMPLETELY REVISED







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NOTES:

- THIS LOCKING DEVICE IS INTENDED FOR USE WITH THE NAS509 JAM NUT OF AN EQUIVALENT DASH (1)NUMBER WHERE CLOSE LINEAR TOLERANCES OR CLOSE ADJUSTMENT TO WITHIN .001 INCH OF ROD END LENGTH IS REQUIRED.
- (2) BREAK ALL SHARP EDGES EXCEPT AS NOTED.
- (3)TRIM GATES FLUSH.
- (4)SURFACE FINISH C-12 ALL OVER PER NAS823.
- (5)PENETRANT INSPECT PER MIL-C 6021 AMS2175 FOR CLASS 2 NON-MAGNETIC MATERIAL,
- (6)FOR PISTON ROD AND KEYWAY DETAIL, SEE NAS513.
- (7)DIMENSIONS IN INCHES AND ARE TO BE MET BEFORE CADMIUM PLATING.
- THE NO CODE (TYPE 410 MATERIAL) PARTS ARE INACTIVE FOR DESIGN AFTER 29 SEPT. 1973 AND /8/ ARE SUPERSEDED BY "K" CODE PARTS. FOR DESCRIPTION OF STATUS NOTES, SEE NAS380.
- (9)TOLERANCES UNLESS OTHERWISE SPECIFIED: CASTING TOLERANCES ±.005/IN. ANGULAR TOLERANCES ±301. CORE LOCATION AND DIMENSIONS ± 30 ' OR $\pm .01$.
- (10) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (11) REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
- UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF (12)THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982. (13)

COMPLETELY REVISED

REVISION

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NAS1193 SHEET 4

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