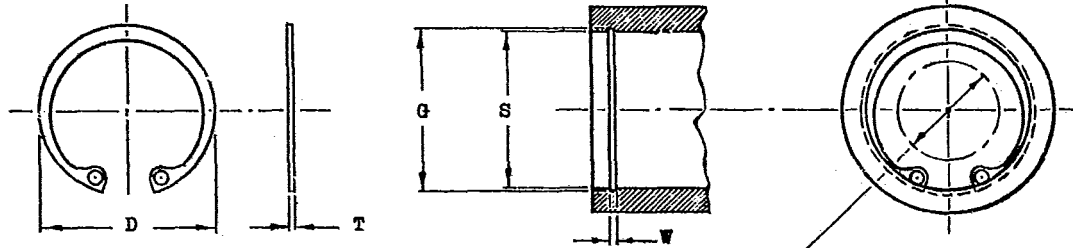


NATIONAL AIRCRAFT STANDARDS COMMITTEE

810 SHOREHAM BUILDING, WASHINGTON, D. C.

② INACTIVE FOR DESIGN AFTER 7-31-56 SEE DRAWING NAS 669



MAX. BOTTOM RAD.
 .500, RINGS -37 TO -100 INCL.
 .010, RINGS -102 AND LARGER

C = CLEARANCE WHEN
 RING IS SPRUNG INTO
 HOUSING DIA. S.

DASH NO.	HOUSING		RING DIMENSIONS					ENGINEERING INFORMATION			
	DIAMETER		FREE DIAM.		THICKNESS		C	GROOVE DIAM.		GROOVE WIDTH	
	S IN.	S MM.	D IN.	TOL. IN.	T IN.	TOL. IN.		G IN.	TOL. IN.	W IN.	TOL. IN.
37	.375	9.5	.403	+.005	.025	±.0015	.19	.397	±.002	.028	
43	.438	11	.468	-.002	.025		.22	.461		.028	
50	.500	13	.533		.035		.23	.524		.039	
56	.562	14.5	.607		.035		.27	.592		.039	
62	.625	16	.675		.035		.33	.659		.039	
68	.688	17.5	.742		.035		.37	.724		.039	
75	.750	19	.808	+.010	.035		.43	.790	±.003	.039	+.003
77	.777	20	.836	-.005	.042		.46	.819	.002 T.I.R.	.046	-.000
81	.812	21	.877		.042		.47	.857		.046	
87	.875	22	.944		.042		.51	.922		.046	
90	.901	23	.970		.042		.52	.950		.046	
93	.938	24	1.015		.042		.54	.989		.046	
100	1.000	25.5	1.081		.042		.59	1.055		.046	
102	1.023	26	1.106		.042	±.002	.60	1.079		.046	
106	1.062	27	1.150		.050		.65	1.120		.056	
112	1.125	28.5	1.217		.050		.71	1.185		.056	
118	1.188	30	1.283		.050		.77	1.250	±.004	.056	
125	1.250	32	1.351	+.015	.050		.82	1.320	.003 T.I.R.	.056	
131	1.312	33	1.418	-.010	.050		.87	1.385		.056	
137	1.375	35	1.486		.050		.92	1.450		.056	
143	1.438	36.5	1.552		.050		.98	1.515		.056	
145	1.456	37	1.572		.050		1.00	1.535		.056	
150	1.500	38	1.622		.050		1.04	1.580		.056	+.004
156	1.562	40	1.688		.062		1.09	1.647		.068	-.000
162	1.625	41	1.756		.062		1.14	1.715		.068	
165	1.653	42	1.786		.062		1.16	1.745		.068	
168	1.688	43	1.823		.062		1.20	1.780		.068	
175	1.750	44.5	1.891	+.020	.062		1.26	1.845	±.005	.068	
181	1.812	46	1.958	-.013	.062		1.31	1.910	.003 T.I.R.	.068	
185	1.850	47	1.998		.062		1.34	1.949		.068	
187	1.875	47.5	2.025		.062		1.36	1.975		.068	
193	1.938	49	2.095		.062		1.41	2.040		.068	
200	2.000	51	2.160		.062		1.47	2.110		.068	
206	2.062	52.5	2.225		.078		1.54	2.175		.086	
212	2.125	54	2.295		.078		1.58	2.240		.086	
218	2.188	55.5	2.365		.078		1.63	2.305		.086	
225	2.250	57	2.435	+.025	.078	±.003	1.69	2.370		.086	
231	2.312	59	2.500	-.015	.078		1.75	2.440		.086	
237	2.375	60.5	2.567		.078		1.81	2.505		.086	
244	2.440	62	2.634		.078		1.86	2.570		.086	
250	2.500	63.5	2.700		.078		1.91	2.635		.086	
253	2.531	64.5	2.733		.078		1.93	2.668	±.006	.086	+.005
256	2.562	65	2.760		.093		1.96	2.700	.004 T.I.R.	.103	-.000
262	2.625	66.5	2.840		.093		2.02	2.765		.103	
268	2.688	68	2.907	+.030	.093		2.09	2.834		.103	
275	2.750	70	2.975	-.020	.093		2.16	2.900		.103	
281	2.813	71.5	3.040		.093		2.20	2.965		.103	
283	2.834	72	3.063		.093		2.22	2.987		.103	
287	2.875	73	3.105		.093		2.24	3.030		.103	
300	3.000	76	3.245		.093		2.35	3.165		.103	

TITLE

RINGS - INTERNAL RETAINER

STANDARD PART

NAS 50

Documents

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SHEET 1 OF 2

PROJECT SURVEY NO. PS-NO-4
 PROJECT NO. P-258
 APPROVED MARCH 1942 REVISION ① APRIL 1945 ② 31 July 1956

NATIONAL AIRCRAFT STANDARDS COMMITTEE

810 SHOREHAM BUILDING, WASHINGTON, D. C.

② INACTIVE FOR DESIGN AFTER 7-31-56 SEE DRAWING NAS 669

DASH NO.	HOUSING		RING DIMENSIONS					ENGINEERING INFORMATION			
	DIAMETER		FREE DIAM.		THICKNESS		C	GROOVE DIAM.		GROOVE WIDTH	
			D IN.	TOL. IN.	T IN.	TOL. IN.	MAX. IN.	G IN.	TOL. IN.	W IN.	TOL. IN.
306	3.062	78	3.310		.109		2.41	3.230		.120	
312	3.125	79.5	3.377		.109		2.46	3.295		.120	
315	3.156	80	3.408		.109		2.53	3.328		.120	
325	3.250	82.5	3.509		.109		2.59	3.426		.120	
334	3.346	85	3.611		.109		2.67	3.525		.120	
347	3.469	88	3.746		.109		2.75	3.657		.120	
350	3.500	89	3.780		.109		2.79	3.690		.120	
354	3.543	90	3.826	+ .030 - .020	.109		2.82	3.735	± .006 .004 T.I.R.	.120	+ .005 - .000
356	3.562	90.5	3.850		.109		2.84	3.756		.120	
375	3.750	95	4.060		.109		3.00	3.956		.120	
387	3.875	98.5	4.205		.109		3.11	4.087		.120	
393	3.938	100	4.283		.109		3.18	4.150		.120	
400	4.000	102	4.350		.109		3.23	4.220		.120	

PART NUMBER NAS 50-306N: RING FOR 3.062 NOM. DIA. BORE, OILED OR GREASED ONLY, NO PLATING.
EXAMPLE: DASH NUMBER INDICATES BORE NOM. DIA. IN HUNDREDTHS.

MATERIAL: STEEL, S.A.E. 1065-1090, H. T. 238,000 - 280,000 PSI, TENSILE.

CORROSION PROTECTION: UNPLATED: COAT WITH CORROSION PREVENTION COMPOUND, SPEC. AN-C-52, SUFFIX "N" TO DASH NUMBER.
 PARKERIZE: SPEC. ARMY 57-0-2. SUFFIX "P" TO DASH NUMBER.
 CADMIUM PLATE: SPEC. AN-P-61; NO SUFFIX TO DASH NUMBER.

MANUFACTURING NOTES: 1. WITH ALLOWANCE FOR INITIAL SET, RINGS SHALL NOT TAKE A PERMANENT SET, NOR FAIL BY CRACKING, WHEN CONTRACTED SO THAT LUGS ARE IN CONTACT.
 2. RINGS MUST BE FLAT AND FREE OF BURRS.

INSTALLATION: USE LONG-NOSE OR INSTALLATION PLIERS.

TITLE

RINGS - INTERNAL RETAINER

STANDARD PART

NAS 50

SHEET 2 OF 2

Documents

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