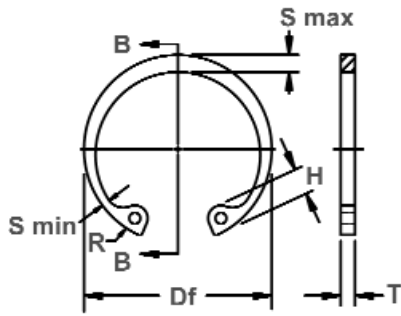


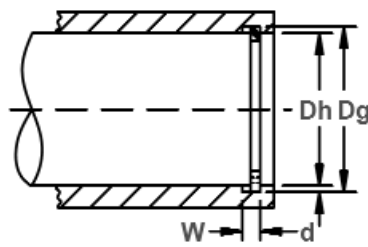
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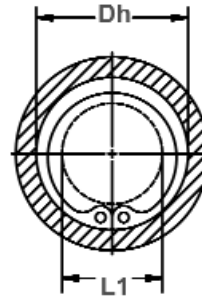
# N5000 BASIC Internal Series



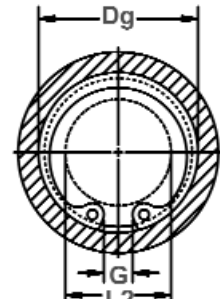
Free Diameter & Ring Measurements with Section B-B



Housing Diameter & Groove Dimensions



Clearance Diameter Compressed in Housing



Clearance Diameter & Gap Width Released in Groove

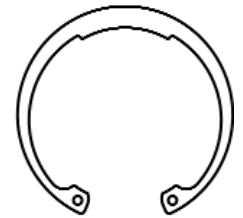
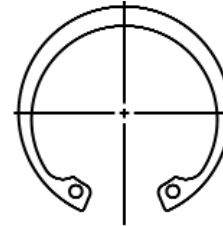
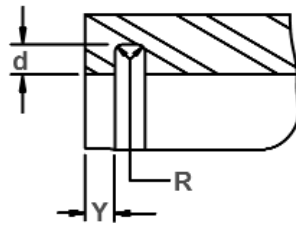
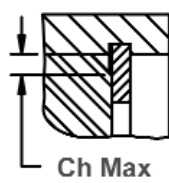
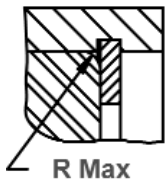
RING NO.	HOUSING DIAMETER			GROOVE SIZE			RING SIZE & WEIGHT				CLEARANCE DIA.			i			
	Dh DEC	Dh FRAC	Dh mm	DIAMETER		DEPTH	FREE DIAMETER		THICKNESS***	Wgt. Per 1000 Pcs.	Compressed in housing	Re-released in groove	Ring Safety Factor of 4	Groove Safety Factor of 2			
				Dg	Tol.		Df	Tol.							L1	L2	Pr
N5000-25	.250	1/4	6.4	.268	±.001	.020	+.002	.009	.280		.015		.08	.115	.133	426	190
N5000-31	.312	5/16	7.9	.330	.0015*	.020	-.000	.009	.346		.015		.11	.173	.191	538	240
N5000-37	.375	3/8	9.5	.397	±.002	.029		.011	.415		.025		.25	.204	.226	1066	350
N5000-43	.438	7/16	11.1	.461	.002*	.029		.012	.482		.025		.37	.23	.254	1238	440
N5000-45	.453	29/64	11.5	.477		.029		.012	.498		.025		.43	.25	.274	1299	460
N5000-50	.500	1/2	12.7	.530		.039		.015	.548	+.010	.035		.70	.26	.290	2010	510
N5000-51	.512	-	13.0	.542	±.002	.039		.015	.560	-.005	.035		.77	.27	.300	2060	520
N5000-56	.562	9/16	14.3	.596	.004*	.039		.017	.620		.035		.86	.275	.305	2253	710
N5000-62	.625	5/8	15.9	.665		.039		.020	.694		.035		1.0	.34	.380	2507	1050
N5000-68	.688	11/16	17.5	.732		.039		.022	.763		.035		1.2	.40	.440	2741	1280
N5000-75	.750	3/4	19.0	.796		.039	+.003	.023	.831		.035		1.3	.45	.490	3045	1460
N5000-77	.777	-	19.7	.825		.046	-.000	.024	.859		.042		1.7	.475	.520	4618	1580
N5000-81	.812	13/16	20.6	.862		.046		.025	.901		.042		1.9	.49	.540	4872	1710
N5000-86	.866	-	22.0	.920	±.003	.046		.027	.961		.042		2.0	.54	.590	5177	1980
N5000-87	.875	7/8	22.2	.931	.004*	.046		.028	.971		.042		2.1	.545	.600	5227	2080
N5000-90	.901	-	22.9	.959		.046		.029	1.000	+.015	.042		2.2	.565	.620	5430	2200
N5000-93	.938	15/16	23.8	1.000		.046		.031	1.041	-.010	.042	±.002	2.4	.61	.670	5684	2450
N5000-100	1.000	1	25.4	1.066		.046		.033	1.111		.042		2.7	.665	.730	6039	2800
N5000-102	1.023	-	26.0	1.091		.046		.034	1.136		.042		2.8	.69	.755	6141	3000
N5000-106	1.062	1-1/16	27.0	1.130		.056		.034	1.180		.050		3.7	.685	.750	7562	3050
N5000-112	1.125	1-1/8	28.6	1.197		.056		.036	1.249		.050		4.0	.745	.815	8019	3400
N5000-118	1.181	-	30.0	1.255		.056		.037	1.319		.050		4.3	.79	.860	8526	3700
N5000-118	1.188	1-3/16	30.2	1.262	±.004	.056		.037	1.319		.050		4.3	.80	.870	8526	3700
N5000-125	1.250	1-1/4	31.7	1.330	.005*	.056		.040	1.388	+.025	.050		4.8	.875	.955	8932	4250
N5000-125	1.259	-	32.0	1.339		.056		.040	1.388	-.020	.050		4.8	.885	.965	8932	4250
N5000-131	1.312	1-5/16	33.3	1.396		.056		.042	1.456		.050		5.0	.93	1.01	9440	4700
N5000-137	1.375	1-3/8	34.9	1.461		.056		.043	1.526		.050		5.1	.99	1.07	9846	5050
N5000-137	1.378	-	35.0	1.464		.056	+.004	.043	1.526		.050		5.1	.99	1.07	9846	5050
N5000-143	1.438	1-7/16	36.5	1.528		.056	-.000	.045	1.596		.050		5.8	1.06	1.15	10353	5500
N5000-145	1.456	-	37.0	1.548		.056		.046	1.616		.050		6.4	1.08	1.17	10455	5700
N5000-150	1.500	1-1/2	38.1	1.594		.056		.047	1.660		.050		6.5	1.12	1.21	10708	6000
N5000-156	1.562	1-9/16	39.7	1.658		.068		.048	1.734		.062		8.9	1.14	1.23	13906	6350
N5000-156	1.575	-	40.0	1.671		.068		.048	1.734		.062		8.9	1.15	1.24	13906	6350
N5000-162	1.625	1-5/8	41.3	1.725	±.005	.068		.050	1.804	+.035	.062		10.0	1.15	1.25	14413	6900
N5000-165	1.653	-	42.0	1.755	.005*	.068		.051	1.835	-.025	.062	±.003	10.4	1.17	1.27	14718	7200
N5000-168	1.688	1-11/16	42.9	1.792		.068		.052	1.874		.062		10.8	1.23	1.33	15022	7450
N5000-175	1.750	1-3/4	44.4	1.858		.068		.054	1.942		.062		10.3	1.26	1.36	15580	8050
N5000-181	1.812	1-13/16	46.0	1.922		.068		.055	2.012		.062		11.5	1.34	1.38	16139	8450

\* F.I.M. (FULL INDICATOR MOVEMENT)- MAXIMUM ALLOWABLE DEVIATION OF CONCENTRICITY BETWEEN GROOVE & HOUSING.

† BASED ON HOUSINGS/SHAFTS MADE OF COLD ROLLED STEEL. FOR AN EXPLANATION OF FORMULAS USED TO DERIVE THRUST LOAD AND OTHER PERFORMANCE DATA CONTACT THE ROTOR CLIP ENGINEERING DEPARTMENT.

\*\*\*FOR PLATED RINGS ADD .002" TO THE LISTED MAXIMUM THICKNESS. MAXIMUM THICKNESS WILL BE A MINIMUM OF .0002" LESS THAN THE LISTED GROOVE WIDTH (W) MINIMUM.

# N5000 BASIC Internal Series



Allowable Corner Radius and Chamfer

Exploded Groove Profile & Edge Margin (Y)  
Maximum bottom radii (R), .005 for ring sizes -25 thru -100; .010 for ring sizes 102 thru 1000

Alternate Lug Design  
For Larger Sizes  
(Manufacturer's Option)

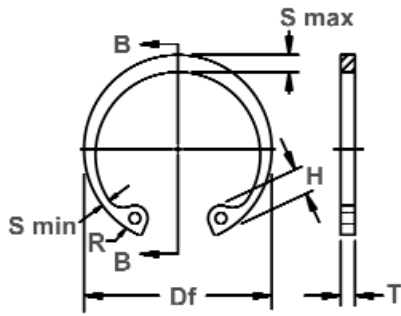
Alternate Design  
(Manufacturer's Option)

RING NO.	LUG HEIGHT		MAXIMUM SECTION		MINIMUM SECTION		HOLE DIAMETER		GAP WIDTH Ring in Groove	ALLOWABLE CORNER RADII & CHAMFERS			MAX. LOAD w/ R max or Ch max (lbs.)	EDGE MARGIN Y
	H	Tol.	S max	Tol.	S min	Tol.	R	Tol.		G Min	R max	Ch max		
N5000-25	.065	± .003	.025	± .002	.015	± .002	.031	+ .010 - .002	.047	.011	.0085	190	.027	
N5000-31	.066		.033		.018		.031		.055	.016	.013	190	.027	
N5000-37	.082		.040	± .003	.028	± .003	.041		.063	.023	.018	530	.033	
N5000-43	.098	.049	± .003	.029	± .003	.041	.063		.027	.021	530	.036		
N5000-45	.098	.050		.030		.047	.071		.027	.021	530	.036		
N5000-50	.114	.053	± .004	.035	± .004	.047	.090		.027	.021	1100	.045		
N5000-51	.114	.053		.035		± .004	.047		.092	.027	.021	1100	.045	
N5000-56	.132	.053		.035		± .004	.047		.095	.027	.021	1100	.051	
N5000-62	.132	.060		.035		.062	.104		.027	.021	1100	.060		
N5000-68	.132	.063	± .005	.036	± .005	.062	.118		.027	.021	1100	.066		
N5000-75	.142	.070		.040		± .005	.062	.143	.032	.025	1100	.069		
N5000-77	.146	.074		.044		± .005	.062	.145	.035	.028	1650	.072		
N5000-81	.155	.077	± .006	.044	± .006	.062	.153	.035	.028	1650	.075			
N5000-86	.155	.081		.045		± .006	.062	.172	.035	.028	1650	.081		
N5000-87	.155	.084		.045		± .006	.062	.179	.035	.028	1650	.084		
N5000-90	.155	.087	± .005	.047	± .005	.062	.188	.038	.030	1650	.087			
N5000-93	.155	.091		.050		.062	.200	.038	.030	1650	.093			
N5000-100	.155	.104	± .005	.052	± .005	.062	.212	.042	.034	1650	.099			
N5000-102	.155	.106		.054		± .005	.062	.220	.042	.034	1650	.102		
N5000-106	.180	.110		.055		± .006	.078	.213	.044	.035	2400	.102		
N5000-112	.180	.116	± .006	.057	± .006	.078	.232	.047	.036	2400	.108			
N5000-118	.180	.120		.058		± .006	.078	.226	.047	.036	2400	.111		
N5000-118	.180	.120		.058		± .006	.078	.245	.047	.036	2400	.111		
N5000-125	.180	.124	± .006	.062	± .006	.078	.265	.048	.038	2400	.120			
N5000-125	.180	.124		.062		± .006	.078	.290	.048	.038	2400	.120		
N5000-131	.180	.130		.062		± .006	.078	.284	.048	.038	2400	.126		
N5000-137	.180	.130	± .007	.063	± .007	.078	.297	.048	.038	2400	.129			
N5000-137	.180	.130		.063		± .007	.078	.305	.048	.038	2400	.129		
N5000-143	.180	.133		.065		± .007	.078	.313	.048	.038	2400	.135		
N5000-145	.180	.133	± .007	.065	± .007	.078	.320	.048	.038	2400	.138			
N5000-150	.180	.133		.066		± .007	.078	.340	.048	.038	2400	.141		
N5000-156	.202	.157		.078		± .007	.078	.338	.064	.050	3900	.144		
N5000-156	.202	.157	± .007	.078	± .007	.078	.374	.064	.050	3900	.144			
N5000-162	.227	.164		.082		± .007	.078	.339	.064	.050	3900	.150		
N5000-165	.230	.167		.083		± .007	.078	.348	.064	.050	3900	.153		
N5000-168	.230	.170	± .007	.085	± .007	.078	.357	.064	.050	3900	.156			
N5000-175	.230	.170		.083		± .007	.078	.372	.064	.050	3900	.162		
N5000-181	.230	.170		.084		± .007	.093	.382	.064	.050	3900	.165		

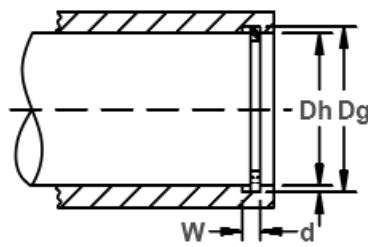
FOR HARDNESS SPECIFICATIONS, SEE END OF THIS SECTION



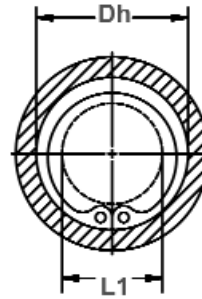
# N5000 BASIC Internal Series



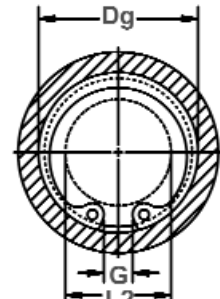
Free Diameter & Ring Measurements with Section B-B



Housing Diameter & Groove Dimensions



Clearance Diameter Compressed in Housing



Clearance Diameter & Gap Width Released in Groove

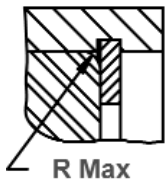
RING NO.	HOUSING DIAMETER			DIAMETER		WIDTH		DEPTH	RING SIZE & WEIGHT				Wght. Per 1000 Pcs.	Compressed in housing	Re-released in groove	i THRUST LD. (lbs.) Sqr. corner abutment	
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.				Pr	Pg
	Dh DEC	Dh FRAC	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	Lbs.	L1	L2	Pr	Pg
N5000-185	1.850	-	47.0	1.962		.068		.056	2.054		.062		12.8	1.35	1.46	16443	8750
N5000-187	1.875	1-7/8	47.6	1.989	±.005	.068	+.004	.057	2.072	+.035	.062		12.8	1.37	1.48	16697	9050
N5000-193	1.938	1-15/16	49.2	2.056	.005*	.068	-.000	.059	2.141	-.025	.062		13.3	1.46	1.58	17255	9700
N5000-200	2.000	2	50.8	2.122		.068		.061	2.210		.062		14.0	1.52	1.64	17763	10300
N5000-206	2.047	-	52.0	2.171		.086		.062	2.280		.078		18.0	1.52	1.64	23091	10850
N5000-206	2.062	2-1/16	52.4	2.186		.086		.062	2.280		.078		18.0	1.54	1.66	23091	10850
N5000-212	2.125	2-1/8	54.0	2.251		.086		.063	2.350		.078		19.4	1.58	1.70	23751	11350
N5000-218	2.165	-	55.0	2.295		.086		.065	2.415		.078		19.6	1.63	1.75	24461	12050
N5000-218	2.188	2-3/16	55.6	2.318		.086		.065	2.415		.078		19.6	1.66	1.79	24461	12050
N5000-225	2.250	2-1/4	57.1	2.382		.086		.066	2.490		.078		21.8	1.67	1.80	25223	12600
N5000-231	2.312	2-5/16	58.7	2.450		.086		.069	2.560		.078		22.6	1.73	1.93	25832	13550
N5000-237	2.375	2-3/8	60.3	2.517		.086		.071	2.630		.078		23.2	1.79	1.86	26542	14300
N5000-244	2.440	2-7/16	62.0	2.584		.086		.072	2.702	+.040	.078		25.4	1.86	2.00	27304	14900
N5000-250	2.500	2-1/2	63.5	2.648		.086		.074	2.775	-.030	.078		25.5	1.91	2.05	28014	15650
N5000-250	2.531	2-17/32	64.3	2.681		.086		.075	2.775		.078		25.5	1.94	2.09	28014	15650
N5000-256	2.562	2-9/16	65.1	2.714		.103		.076	2.844		.093		34.0	1.93	2.08	34206	16500
N5000-262	2.625	2-5/8	66.7	2.781	±.006	.103	+.005	.078	2.910		.093	±.003	34.5	2.02	2.17	35068	17350
N5000-268	2.677	-	68.0	2.837	.006*	.103	-.000	.080	2.980		.093		35.0	2.05	2.21	35931	18250
N5000-268	2.688	2-11/16	68.3	2.848		.103		.080	2.980		.093		35.0	2.06	2.22	35931	18250
N5000-275	2.750	2-3/4	69.8	2.914		.103		.082	3.050		.093		35.5	2.12	2.28	36642	19200
N5000-281	2.812	2-13/16	71.4	2.980		.103		.084	3.121		.093		36.0	2.18	2.34	37504	20050
N5000-281	2.835	-	72.0	3.006		.103		.085	3.121		.093		36.0	2.21	2.38	37504	20050
N5000-287	2.875	2-7/8	73.0	3.051		.103		.088	3.191		.093		41.0	2.24	2.41	38367	21500
N5000-300	2.953	-	75.0	3.135		.103		.091	3.325		.093		42.5	2.32	2.50	40093	23150
N5000-300	3.000	3	76.2	3.182		.103		.091	3.325		.093		42.5	2.37	2.55	40093	23150
N5000-306	3.062	3-1/16	77.8	3.248		.120		.093	3.418		.109		53.0	2.41	2.59	47807	24100
N5000-312	3.125	3-1/8	79.4	3.315		.120		.095	3.488		.109		56.0	2.47	2.66	48822	25200
N5000-315	3.149	-	80.0	3.341		.120		.096	3.523		.109		57.0	2.49	2.68	49329	25700
N5000-315	3.156	3-5/32	80.2	3.348		.120		.096	3.523		.109		57.0	2.50	2.69	49329	25700
N5000-325	3.250	3-1/4	82.5	3.446		.120		.098	3.623	±.055	.109		60.0	2.54	2.73	50750	27000
N5000-334	3.346	3-11/32	85.0	3.546		.120		.100	3.734		.109		65.0	2.63	2.83	52374	28300
N5000-347	3.469	3-15/32	88.1	3.675		.120		.103	3.857		.109		69.0	2.76	2.96	54201	30200
N5000-350	3.500	3-1/2	88.9	3.710		.120		.105	3.890		.109		71.0	2.79	3.00	54709	31200
N5000-354	3.543	-	90.0	3.755		.120		.106	3.936		.109		72.0	2.83	3.04	55419	31800
N5000-354	3.562	3-9/16	90.5	3.776		.120		.107	3.936		.109		72.0	2.85	3.06	55419	31800
N5000-362	3.625	3-5/8	92.1	3.841		.120		.108	4.024		.109		73.0	2.91	3.12	56739	33200
N5000-375	3.740	-	95.0	3.964		.120		.112	4.157	±.065	.109		78.0	3.02	3.24	58566	35600
N5000-375	3.750	3-3/4	95.2	3.974		.120		.112	4.157		.109		78.0	3.03	3.25	58566	35600

\* F.I.M. (FULL INDICATOR MOVEMENT)- MAXIMUM ALLOWABLE DEVIATION OF CONCENTRICITY BETWEEN GROOVE & HOUSING.

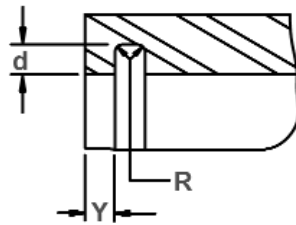
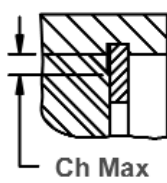
† BASED ON HOUSINGS/SHAFTS MADE OF COLD ROLLED STEEL. FOR AN EXPLANATION OF FORMULAS USED TO DERIVE THRUST LOAD AND OTHER PERFORMANCE DATA CONTACT THE ROTOR CLIP ENGINEERING DEPARTMENT.

\*\*\*FOR PLATED RINGS ADD .002" TO THE LISTED MAXIMUM THICKNESS. MAXIMUM THICKNESS WILL BE A MINIMUM OF .0002" LESS THAN THE LISTED GROOVE WIDTH (W) MINIMUM.

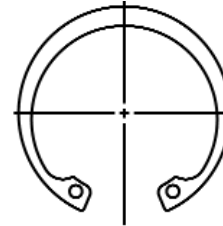
# N5000 BASIC Internal Series



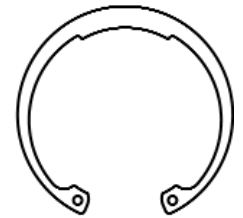
Allowable Corner Radius and Chamfer



Exploded Groove Profile & Edge Margin (Y)  
Maximum bottom radii (R), .005 for ring sizes -25 thru -100; .010 for ring sizes 102 thru 1000



Alternate Lug Design  
For Larger Sizes  
(Manufacturer's Option)



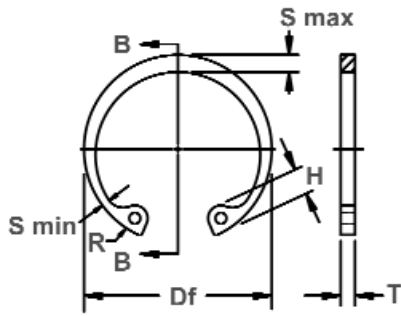
Alternate Design  
(Manufacturer's Option)

RING NO.	LUG HEIGHT		MAXIMUM SECTION		MINIMUM SECTION		HOLE DIAMETER		GAP WIDTH Ring in Groove	ALLOWABLE CORNER RADII & CHAMFERS			MAX. LOAD w/ R max or Ch max (lbs.)	EDGE MARGIN
	H	Tol.	S max	Tol.	S min	Tol.	R	Tol.		G Min	R max	Ch max		
N5000-185	.234		.170		.085		.093		.360	.064	.050	3900	.168	
N5000-187	.234		.170		.085		.093		.430	.064	.050	3900	.171	
N5000-193	.230		.170		.085		.093		.438	.064	.050	3900	.177	
N5000-200	.230		.170		.085		.093		.453	.064	.050	3900	.183	
N5000-206	.250		.186		.091		.093		.428	.078	.061	6200	.186	
N5000-206	.250		.186		.091		.093		.468	.078	.062	6200	.186	
N5000-212	.250		.195		.096		.093		.460	.078	.062	6200	.189	
N5000-218	.250		.199		.098		.093		.439	.078	.062	6200	.195	
N5000-218	.250		.199		.098		.093		.489	.078	.062	6200	.195	
N5000-225	.280		.203		.099		.093		.478	.078	.062	6200	.198	
N5000-231	.280	±.005	.206	±.007	.100	±.007	.093		.486	.078	.062	6200	.207	
N5000-237	.280		.207		.102		.093		.504	.078	.062	6200	.213	
N5000-244	.280		.209		.103		.110		.518	.078	.062	6200	.216	
N5000-250	.280		.210		.103		.110		.532	.078	.062	6200	.222	
N5000-250	.280		.210		.103		.110	+ .015	.597	.078	.062	6200	.225	
N5000-256	.300		.222		.109		.110	- .002	.540	.088	.070	9000	.228	
N5000-262	.290		.226		.111		.110		.558	.088	.070	9000	.234	
N5000-268	.300		.230		.113		.110		.539	.090	.072	9000	.240	
N5000-268	.300		.230		.113		.110		.568	.090	.072	9000	.240	
N5000-275	.300		.234		.115		.110		.590	.092	.074	9000	.246	
N5000-281	.300		.230		.115		.110		.615	.088	.070	9000	.252	
N5000-281	.300		.230		.115		.110		.676	.088	.070	9000	.255	
N5000-287	.300		.240		.120		.110		.626	.092	.074	9000	.264	
N5000-300	.300		.250		.122		.110		.619	.092	.074	9000	.273	
N5000-300	.300		.250		.122		.110		.738	.092	.074	9000	.273	
N5000-306	.310		.254		.126		.125		.651	.097	.078	12000	.279	
N5000-312	.310		.259		.129		.125		.655	.099	.079	12000	.285	
N5000-315	.310		.262		.129		.125		.650	.100	.080	12000	.288	
N5000-315	.310		.262		.129		.125		.669	.100	.080	12000	.288	
N5000-325	.342		.269		.135		.125		.698	.104	.083	12000	.294	
N5000-334	.342	±.008	.276	±.008	.140	±.008	.125		.705	.108	.086	12000	.300	
N5000-347	.342		.286		.144		.125		.763	.108	.086	12000	.309	
N5000-350	.342		.289		.142		.125		.774	.110	.088	12000	.315	
N5000-354	.342		.292		.142		.125		.788	.110	.088	12000	.318	
N5000-354	.342		.292		.142		.125		.842	.110	.088	12000	.321	
N5000-362	.342		.299		.150		.125		.833	.116	.093	12000	.324	
N5000-375	.342		.309		.155		.125		.844	.120	.096	12000	.336	
N5000-375	.342		.309		.155		.125		.871	.120	.096	12000	.336	

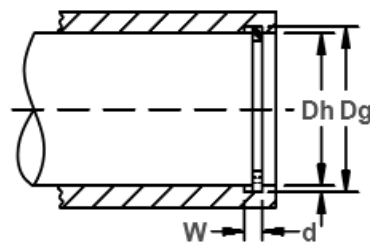
FOR HARDNESS SPECIFICATIONS, SEE END OF THIS SECTION



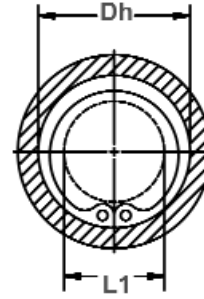
# N5000 BASIC Internal Series



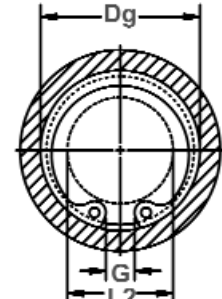
Free Diameter & Ring Measurements with Section B-B



Housing Diameter & Groove Dimensions



Clearance Diameter Compressed in Housing



Clearance Diameter & Gap Width Released in Groove

RING NO.	HOUSING DIAMETER			GROOVE SIZE					Free Diameter			CLEAR. DIA.			Sqr. corner abutment		
				DIAMETER		WIDTH		DEPTH				Thickness***	Weight. Per 1000 Pcs.	Compressed in housing	Released in groove	Ring Safety Factor of 4	Groove Safety Factor of 2
	Dh DEC	Dh FRAC	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T						
N5000-387	3.875	3-7/8	98.4	4.107		.120		.116	4.291		.109		87.0	3.11	3.34	60494	38000
N5000-393	3.938	3-15/16	100.0	4.174		.120		.118	4.358		.109		88.0	3.17	3.40	61611	39300
N5000-400	4.000	4	101.6	4.240		.120		.120	4.424		.109		93.0	3.23	3.47	62626	40700
N5000-412	4.125	4-1/8	104.8	4.365		.120		.120	4.558		.109		97.0	3.36	3.60	64554	42000
N5000-425	4.250	4-1/4	108.0	4.490	±.006	.120	+.005	.120	4.691		.109	±.003	101.0	3.48	3.72	66483	43200
N5000-433	4.331	-	110.0	4.571	.006*	.120	-.000	.120	4.756		.109		105.0	3.50	3.74	67599	44500
N5000-450	4.500	4-1/2	114.3	4.740		.120		.120	4.940		.109		111.0	3.66	3.90	70340	45800
N5000-462	4.625	4-5/8	117.5	4.865		.120		.120	5.076	±.065	.109		117.0	3.79	4.03	72370	47000
N5000-475	4.724	-	120.0	4.969		.120		.122	5.213		.109		124.0	3.88	4.12	74298	49000
N5000-475	4.750	4-3/4	120.6	4.995		.120		.122	5.213		.109		124.0	3.90	4.14	74298	49000
N5000-500	5.000	5	127.0	5.260		.120		.130	5.485		.109		136.0	4.08	4.34	78155	55000
N5000-525	5.250	5-1/4	133.3	5.520		.139		.135	5.770		.125		174.0	4.35	4.62	94091	60000
N5000-537	5.375	5-3/8	136.5	5.650	±.007	.139	+.006	.135	5.910		.125		179.0	4.45	4.72	96324	61500
N5000-550	5.500	5-1/2	139.7	5.770	.006*	.139	-.000	.135	6.066		.125	±.004	183.0	4.57	4.84	98658	63300
N5000-575	5.750	5-3/4	146.0	6.020		.139		.135	6.336		.125		192.0	4.82	5.09	103124	65900
N5000-600	6.000	6	152.4	6.270		.139		.135	6.620		.125		202.1	5.07	5.34	107489	68600
N5000-625	6.250	6-1/4	158.7	6.530		.174		.140	6.895		.156		266.0	5.24	5.52	139766	74100
N5000-650	6.500	6-1/2	165.1	6.790		.174		.145	7.170		.156		281.0	5.49	5.78	145450	79900
N5000-662	6.625	6-5/8	168.3	6.925		.174		.150	7.308	±.080	.156		305.0	5.60	5.90	148190	84200
N5000-675	6.750	6-3/4	171.4	7.055		.174		.152	7.445		.156		325.0	5.68	5.98	151032	87000
N5000-700	7.000	7	177.8	7.315		.174		.157	7.720		.156		344.0	5.91	6.22	156615	93100
N5000-725	7.250	7-1/4	184.1	7.575		.209		.162	7.995		.187		428.0	6.11	6.43	194373	99600
N5000-750	7.500	7-1/2	190.5	7.840	±.008	.209	+.008	.170	8.270		.187		485.0	6.36	6.70	201173	108100
N5000-775	7.750	7-3/4	196.8	8.100	.006*	.209	-.000	.175	8.545		.187		520.0	6.58	6.93	207872	115000
N5000-800	8.000	8	203.2	8.360		.209		.180	8.820		.187	±.005	555.0	6.83	7.19	214571	122000
N5000-825	8.250	8-1/4	209.5	8.620		.209		.185	9.095		.187		603.0	7.04	7.41	221270	129300
N5000-850	8.500	8-1/2	215.9	8.880		.209		.190	9.285	±.090	.187		634.0	7.29	7.67	227969	136900
N5000-875	8.750	8-3/4	222.2	9.145		.209		.197	9.558		.187		653.0	7.38	7.77	233856	145500
N5000-900	9.000	9	228.6	9.405		.209		.202	9.830		.187		732.0	7.63	8.03	241367	154100
N5000-925	9.250	9-1/4	235.0	9.668		.209		.209	10.102		.187		767.0	7.88	8.30	248066	163600
N5000-950	9.500	9-1/2	241.3	9.930		.209		.215	10.375		.187		803.0	7.98	8.41	254765	173100
N5000-975	9.750	9-3/4	247.7	10.190		.209		.220	10.648		.187		833.0	8.23	8.67	261464	181900
N5000-1000	10.000	10	254.0	10.450		.209		.225	10.920		.187		863.0	8.48	8.93	268163	190700

\* F.I.M. (FULL INDICATOR MOVEMENT)- MAXIMUM ALLOWABLE DEVIATION OF CONCENTRICITY BETWEEN GROOVE & HOUSING.

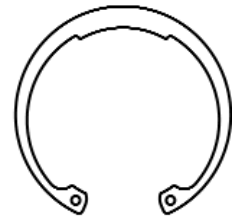
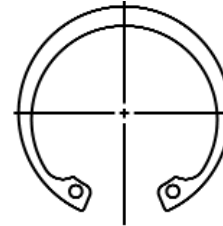
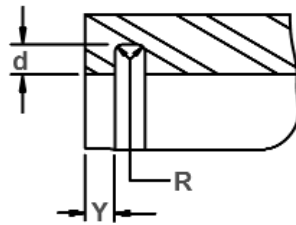
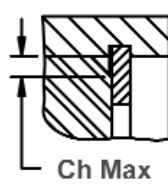
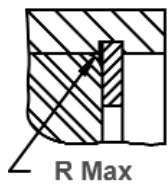
† BASED ON HOUSINGS/SHAFTS MADE OF COLD ROLLED STEEL. FOR AN EXPLANATION OF FORMULAS USED TO DERIVE THRUST LOAD AND OTHER PERFORMANCE DATA CONTACT THE ROTOR CLIP ENGINEERING DEPARTMENT.

\*\*\*FOR PLATED RINGS ADD .002" TO THE LISTED MAXIMUM THICKNESS. MAXIMUM THICKNESS WILL BE A MINIMUM OF .0002" LESS THAN THE LISTED GROOVE WIDTH (W) MINIMUM.

HARDNESS RANGES: STAINLESS STEEL RINGS (PH 15-7MO)

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
N5000	25&31	15N	82.5-86
	37-102	30N	63-69.5
	106+	C	44-51

# N5000 BASIC Internal Series



Allowable Corner Radius and Chamfer

Exploded Groove Profile & Edge Margin (Y)  
Maximum bottom radii (R), .005 for ring sizes -25 thru -100; .010 for ring sizes 102 thru 1000

Alternate Lug Design  
For Larger Sizes  
(Manufacturer's Option)

Alternate Design  
(Manufacturer's Option)

RING NO.	LUG HEIGHT		MAXIMUM SECTION		MINIMUM SECTION		HOLE DIAMETER		GAP WIDTH Ring in Groove	EDGE MARGIN	ALLOWABLE CORNER RADII & CHAMFERS		MAX. LOAD w/R max or Ch max. (lbs.)
	H	Tol.	S max	Tol.	S min	Tol.	R	Tol.			G Min	Y	
N5000-387	.370		.319		.160		.125		.891	.348	.123	.098	12000
N5000-393	.370		.324	±.008	.161	±.008	.125	+.015	.905	.354	.124	.099	12000
N5000-400	.370		.330		.166		.125	-.002	.918	.360	.128	.102	12000
N5000-412	.370		.330		.171		.125		.940	.360	.130	.104	12000
N5000-425	.370		.335		.180		.125		.960	.360	.138	.110	12000
N5000-433	.405	±.008	.343		.180		.156		1.000	.360	.142	.114	12000
N5000-450	.405		.351		.181		.156		.980	.360	.146	.117	12000
N5000-462	.405		.360		.183		.156		1.000	.360	.151	.121	12000
N5000-475	.405		.370		.183		.156		.960	.366	.154	.123	12000
N5000-475	.405		.370	±.009	.183	±.009	.156		1.030	.366	.154	.123	12000
N5000-500	.435		.390		.186		.156		.970	.390	.158	.126	12000
N5000-525	.435		.435		.198		.156		1.10	.405	.168	.134	15000
N5000-537	.435		.435		.198		.156		1.12	.405	.168	.134	15000
N5000-550	.435		.435		.198		.156		1.09	.405	.168	.134	15000
N5000-575	.435		.435		.198		.156		1.11	.405	.168	.134	15000
N5000-600	.435		.435		.198		.156		1.13	.405	.168	.134	15000
N5000-625	.485		.485		.211		.187		1.16	.420	.177	.142	23000
N5000-650	.485		.485		.219		.187		1.25	.435	.181	.145	23000
N5000-662	.485		.485		.221		.187	+.020	1.28	.450	.183	.146	23000
N5000-675	.530		.530		.224		.187	-.005	1.21	.456	.188	.150	23000
N5000-700	.515		.515		.232		.187		1.26	.471	.196	.157	23000
N5000-725	.545	±.010	.545		.238		.187		1.32	.486	.202	.162	34000
N5000-750	.545		.545		.247		.187		1.39	.510	.208	.166	34000
N5000-775	.560		.560		.255		.187		1.44	.525	.214	.171	34000
N5000-800	.560		.560		.262		.187		1.50	.540	.220	.176	34000
N5000-825	.580		.580	±.010	.270	±.010	.187		1.53	.555	.229	.183	34000
N5000-850	.580		.580		.277		.187		1.71	.570	.235	.188	34000
N5000-875	.660		.591		.286		.187		1.77	.591	.241	.193	34000
N5000-900	.660		.609		.294		.187		1.83	.606	.249	.199	34000
N5000-925	.660		.625		.299		.187		1.87	.627	.253	.202	34000
N5000-950	.735		.642		.304		.187		1.91	.645	.258	.206	34000
N5000-975	.735		.658		.309		.187		2.00	.660	.263	.210	34000
N5000-1000	.735		.675		.315		.187		2.01	.675	.270	.216	34000

LARGER SIZES MAY BE AVAILABLE UPON REQUEST.

HARDNESS RANGES: CARBON STEEL RINGS (SAE 1060-1090)

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
N5000	25&31	15N	86-88
	37-51	30N	69.5-73
	56-77	30N	67.5-72
	81-102	30N	66-71
	106-347	C	47-52
	350-700	C	44-51
	725-1000	C	40-47

HARDNESS RANGES: BERYLLIUM COPPER RINGS

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
N5000	25&31	15N	77-82
	37-102	30N	54-62
	106+	C	34-43