



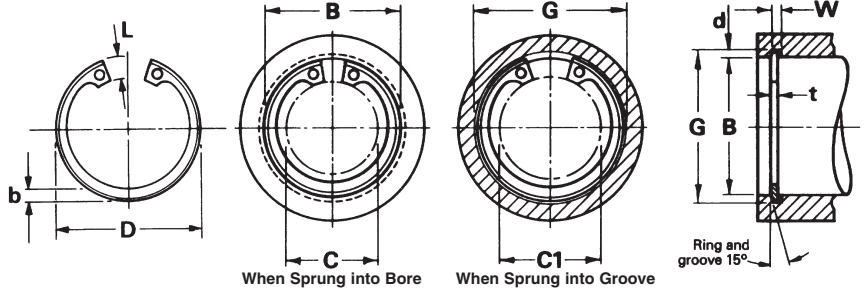
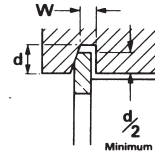
1.00" to 10.00"

Standard Material
Carbon Spring Steel

Standard Finish
Phosphate and oil

MS 16631

**BEVELED
INTERNAL**



Sizes up to 10" available

E = Maximum end play take up capability
† Thrust load calculations see page 5

PART NUMBER	BORE		RING									GROOVE					Tc † (lb.f)	Tg † (lb.f)
	DIAMETER B		THICKNESS		FREE DIAMETER		C	C1	L (max)	b ~	E	DIAMETER		WIDTH		d		
	Frac. inch	Dec. inch	t inches	Tol. inches	D inches	Tol. inches						G inches	Tol. inches	W inches	Tol. inches			
N1302-100	1	1.000	.042		1.111	+0.015	.665	.70	.155	.104	.005	1.076	+0.003	.036		.038	6039	1600
N1302-102	-	1.023	.042		1.136	-.010	.69	.725	.155	.106	.005	1.101	-.000	.036		.039	6141	1700
N1302-106	1 1/16	1.062	.050		1.180		.685	.72	.180	.110	.005	1.138		.044		.038	7562	1700
N1302-112	1 1/8	1.125	.050		1.249		.745	.78	.180	.116	.005	1.205		.043		.040	8019	1900
N1302-118	-	1.181	.050		1.319		.79	.83	.180	.120	.005	1.265		.043		.042	8526	2100
N1302-118	1 3/16	1.188	.050		1.319		.80	.835	.180	.120	.005	1.272		.043		.042	8526	2100
N1302-125	1 1/4	1.250	.050		1.388		.875	.92	.180	.124	.006	1.342		.042		.046	8932	2400
N1302-125	-	1.259	.050	±.002	1.388	+0.025	.885	.93	.180	.124	.006	1.351	+0.004	.042		.046	8932	2400
N1302-131	1 5/16	1.312	.050		1.456	-.020	.93	.97	.180	.130	.006	1.408		.042		.048	9440	2650
N1302-137	1 3/8	1.375	.050		1.526		.99	1.03	.180	.130	.006	1.475		.041		.050	9846	2900
N1302-137	-	1.378	.050		1.526		.99	1.03	.180	.130	.006	1.478		.041		.050	9846	2900
N1302-143	1 7/16	1.438	.050		1.596		1.06	1.11	.180	.133	.007	1.542		.040	+0.001	.052	10353	3100
N1302-145	-	1.456	.050		1.616		1.08	1.13	.180	.133	.007	1.562		.040	-0.000	.053	10455	3250
N1302-150	1 1/2	1.500	.050		1.660		1.12	1.17	.180	.133	.007	1.604		.040		.052	10708	3300
N1302-156	1 9/16	1.562	.062		1.734		1.10	1.15	.220	.157	.007	1.674		.052		.056	11400	2560
N1302-156	-	1.575	.062		1.734		1.11	1.16	.220	.157	.007	1.687		.052		.056	11400	2560
N1302-162	1 5/8	1.625	.062		1.804		1.16	1.22	.220	.164	.008	1.743		.051		.059	11800	2800
N1302-165	-	1.653	.062		1.835		1.17	1.22	.227	.167	.008	1.773		.051		.060	12000	2900
N1302-168	1 11/16	1.688	.062		1.874		1.23	1.29	.220	.170	.008	1.810		.050		.061	12300	3010
N1302-175	1 3/4	1.750	.062		1.942	+0.035	1.26	1.31	.240	.171	.008	1.878	+0.005	.050		.064	12700	3260
N1302-181	1 13/16	1.812	.062		2.012	-.025	1.32	1.38	.240	.170	.009	1.944	-.000	.050		.066	13200	3480
N1302-185	-	1.850	.062		2.054		1.35	1.42	.240	.170	.009	1.984		.050		.067	13500	3610
N1302-187	1 7/8	1.875	.062		2.072		1.37	1.44	.240	.170	.009	2.011		.050		.068	13700	3710
N1302-193	1 15/16	1.938	.062		2.141		1.44	1.51	.240	.170	.009	2.082		.049		.072	14100	4050
N1302-200	2	2.000	.062		2.210		1.50	1.57	.240	.170	.009	2.144		.048		.072	14600	4180
N1302-206	2 1/16	2.062	.078		2.280		1.54	1.61	.250	.186	.009	2.210		.065		.074	18900	4490
N1302-212	2 1/8	2.125	.078		2.350		1.58	1.65	.260	.195	.010	2.279		.065		.077	19500	4800
N1302-218	2 3/16	2.188	.078		2.415		1.64	1.72	.260	.199	.010	2.350		.064		.081	20100	5200
N1302-225	2 1/4	2.250	.078		2.490		1.69	1.77	.270	.203	.010	2.420		.064		.085	20700	5600
N1302-231	2 5/16	2.312	.078		2.560		1.75	1.82	.270	.209	.011	2.484		.063	+0.0015	.086	21200	5820
N1302-237	2 3/8	2.375	.078		2.630		1.81	1.89	.270	.207	.011	2.552		.063	-0.000	.089	21800	6110
N1302-244	2 7/16	2.440	.078		2.702		1.86	1.94	.280	.209	.012	2.618		.062		.089	22400	6350
N1302-250	2 1/2	2.500	.078		2.775	+0.040	1.91	2.00	.280	.210	.012	2.684		.062		.092	23000	6710
N1302-256	2 9/16	2.562	.093		2.844	-.030	1.95	2.04	.290	.210	.012	2.750		.078		.094	28000	7020
N1302-262	2 5/8	2.625	.093		2.910		2.02	2.11	.290	.222	.013	2.820		.077		.097	28700	7420
N1302-268	2 11/16	2.688	.093		2.980		2.06	2.16	.300	.226	.013	2.887		.077		.099	29400	7750
N1302-275	2 3/4	2.750	.093		3.050		2.12	2.21	.300	.230	.014	2.955		.076		.102	30100	8160
N1302-281	2 13/16	2.812	.093		3.121		2.18	2.27	.300	.234	.014	3.020		.076		.104	30800	8510
N1302-287	2 7/8	2.875	.093	±.003	3.191		2.22	2.32	.310	.230	.014	3.085		.076		.105	31500	8780
N1302-300	3	3.000	.093		3.325		2.35	2.46	.310	.250	.015	3.225		.074		.112	32800	9750
N1302-306	3 1/16	3.062	.109		3.418		2.41	2.51	.310	.254	.015	3.290	+0.006	.089		.114	39300	10100
N1302-312	3 1/8	3.125	.109		3.488		2.47	2.58	.310	.259	.015	3.355	-.000	.089		.115	40100	10400
N1302-315	3 5/32	3.156	.109		3.523		2.50	2.61	.310	.262	.015	3.388		.089		.116	40500	10600
N1302-325	3 1/4	3.250	.109		3.623		2.54	2.65	.342	.269	.016	3.489		.089		.119	41700	11200
N1302-334	3 11/32	3.346	.109		3.734	±.055	2.63	2.74	.342	.276	.016	3.591		.089		.122	42900	11800
N1302-347	3 15/32	3.469	.109		3.857		2.76	2.88	.342	.286	.017	3.726		.089		.128	44500	12800
N1302-350	3 1/2	3.500	.109		3.890		2.79	2.91	.342	.289	.017	3.760		.089	+0.002	.130	44900	13200
N1302-354	3 9/16	3.543	.109		3.936		2.85	2.97	.342	.292	.018	3.806		.089	-0.000	.134	45700	13800
N1302-362	3 5/8	3.625	.109		4.024		2.91	3.03	.342	.299	.018	3.900		.089		.137	46500	14300
N1302-375	3 3/4	3.750	.109		4.157		3.03	3.17	.342	.309	.019	4.040		.089		.145	48100	15700
N1302-387	3 7/8	3.875	.109		4.291		3.11	3.25	.370	.319	.020	4.171		.089		.148	49700	16500
N1302-393	3 15/16	3.938	.109		4.358		3.17	3.31	.370	.324	.020	4.236		.089		.149	50500	16900
N1302-400	4	4.000	.109		4.424		3.23	3.37	.370	.330	.020	4.302		.089		.151	51300	17400

