

N1300 (continued)



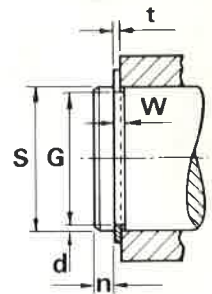
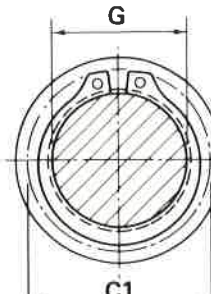
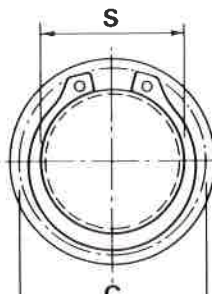
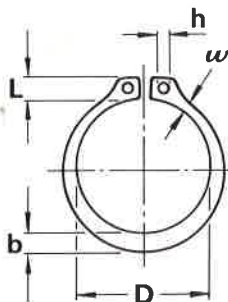
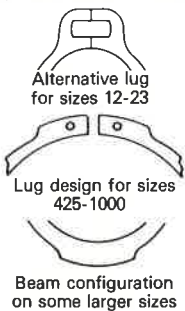
SIZE CODE	Bore (B)		Groove (G)						Circlip (F)								Wt. (lb/k)	Tc† (lb.f)	Tg† (lb.f)		
	B		G	Tol.	W	Tol.	n (min)	d	t	Tol.	D	Tol.	C	C1	L (max)	b				w	h (min)
	(frac)	(dec)																			
0400	4	4.000	4.240		.120		.360	.120	.109		4.424		3.24	3.47	.378	.330	.166	.123	95.0	51400	27100
0412	4.1/8	4.125	4.365		.120		.360	.120	.109		4.558		3.36	3.60	.378	.330	.171	.123	97.0	53000	28000
0425	4.1/4	4.250	4.490		.120		.360	.120	.109		4.691		3.49	3.72	.378	.335	.180	.123	100	54600	28800
0433	—	4.331	4.571	±.006	.120	+.005	.360	.120	.109	±.003	4.756		3.50	3.73	.413	.338	.175	.151	107	55600	29400
0450	4.1/2	4.500	4.740		.120	-.000	.360	.120	.109		4.940		3.67	3.90	.413	.351	.181	.151	111	57800	30500
0462	4.5/8	4.625	4.865		.120		.360	.120	.109		5.076		3.79	4.03	.413	.350	.175	.151	119	59400	31400
0475	4.3/4	4.750	4.995		.120		.366	.122	.109		5.213	±.065	3.92	4.16	.413	.358	.175	.151	124	61000	32800
0500	5	5.000	5.260		.120		.390	.130	.109		5.485		4.10	4.36	.445	.385	.191	.151	136	64200	36800
0525	5.1/4	5.250	5.520		.139		.405	.135	.125		5.770		4.31	4.58	.465	.408	.198	.151	175	77300	40100
0537	5.3/8	5.375	5.650		.139	+.006	.405	.135	.125	±.004	5.910		4.44	4.71	.465	.408	.198	.151	179	78800	41000
0550	5.1/2	5.500	5.770	±.007	.139	-.000	.405	.135	.125		6.066		4.56	4.83	.465	.408	.200	.151	189	81000	42000
0575	5.3/4	5.750	6.020		.139		.405	.135	.125		6.336		4.81	5.08	.465	.408	.198	.151	195	84700	43900
0600	6	6.000	6.270		.139		.405	.135	.125		6.620		5.06	5.33	.465	.416	.223	.151	204	88400	45800
0625	6.1/4	6.250	6.530		.174		.420	.140	.156		6.895		5.34	5.61	.454	.441	.213	.182	263	114900	49500
0650	6.1/2	6.500	6.790		.174		.435	.145	.156		7.170		5.59	5.87	.454	.441	.244	.182	281	119500	53300
0662	6.5/8	6.625	6.925		.174		.450	.150	.156		7.308	±.080	5.71	6.01	.454	.441	.220	.182	300	121700	56200
0675	6.3/4	6.750	7.055		.174		.456	.152	.156		7.445		5.73	6.03	.508	.456	.224	.182	325	124000	58000
0700	7	7.000	7.315		.174		.471	.157	.156		7.720		5.91	6.22	.540	.474	.252	.182	344	128600	62200
0725	7.1/4	7.250	7.575		.209		.486	.162	.187		7.995		6.10	6.42	.570	.490	.238	.182	428	159700	66400
0750	7.1/2	7.500	7.840		.209		.510	.170	.187		8.270		6.35	6.69	.570	.507	.282	.182	476	165200	72100
0775	7.3/4	7.750	8.100	±.008	.209	+.008	.525	.175	.187	±.005	8.545		6.62	6.97	.560	.500	.241	.182	520	170700	76700
0800	8	8.000	8.360		.209	-.000	.540	.180	.187		8.820		6.79	7.15	.600	.530	.252	.182	555	152700	81400
0825	8.1/4	8.250	8.620		.209		.555	.185	.187		9.095		7.04	7.41	.600	.548	.260	.182	603	157500	86300
0850	8.1/2	8.500	8.880		.209		.570	.190	.187		9.285		7.23	7.60	.632	.573	.277	.182	634	162300	91300
0875	8.3/4	8.750	9.145		.209		.591	.197	.187		9.558	±.090	7.48	7.88	.632	.576	.283	.182	653	167000	97700
0900	9	9.000	9.405		.209		.606	.202	.187		9.830		7.73	8.13	.632	.592	.294	.182	732	171800	103000
0925	9.1/4	9.250	9.668		.209		.627	.209	.187		10.102		7.98	8.39	.632	.622	.299	.182	767	176600	109000
0950	9.1/2	9.500	9.930		.209		.645	.215	.187		10.375		8.23	8.65	.632	.622	.354	.182	803	181400	116000
0975	9.3/4	9.750	10.190		.209		.660	.220	.187		10.648		8.50	8.93	NO	.622	.425	.182	833	186200	121300
1000	10	10.000	10.450		.209		.675	.225	.187		10.920		8.75	9.19	LUG	.622	.425	.182	863	191000	127200

STANDARD EXTERNAL CIRCLIPS AMERICAN SPECIFICATION

N1400 EQUIVALENT TO MIL-R-21248/MS 16624



All dimensions in inches



Circlip on shaft

Circlip in groove

*Sizes 12-23 Beryllium copper only

† Thrust load calculations see pages 9 & 10

SIZE CODE	Shaft (S)		Groove (G)						Circlip (F)								Wt. (lb/k)	Tc† (lb.f)	Tg† (lb.f)		
	S		G	Tol.	W	Tol.	n (min)	d	t	Tol.	D	Tol.	C	C1	L (max)	b				w	h (min)
	(frac)	(dec)																			
*0012	1/8	0.125	0.117		.012		.014	.004	.010	±.001	0.112		0.22	0.214	.048	.018	.011	.024	0.018	110	28
*0015	5/32	0.156	0.146		.012		.017	.005	.010		0.142		0.27	0.260	.056	.026	.016	.024	0.037	130	44
*0018	3/16	0.188	0.175		.018	+.002	.022	.007	.015		0.168		0.30	0.286	.052	.025	.016	.023	0.059	240	69
*0019	—	0.197	0.185	±.0015	.018	-.000	.020	.006	.015		0.179		0.32	0.307	.058	.026	.016	.024	0.063	250	67
*0021	7/32	0.219	0.205		.018		.023	.007	.015		0.196		0.34	0.324	.058	.028	.017	.024	0.074	280	87
*0023	15/64	0.236	0.222		.018		.023	.007	.015		0.215		0.36	0.341	.058	.030	.019	.024	0.086	310	93
0025	1/4	0.250	0.230		.029		.032	.010	.025		0.225		0.45	0.43	.083	.035	.025	.039	0.21	880	141
0027	—	0.276	0.255		.029		.035	.010	.025		0.250		0.48	0.46	.084	.035	.024	.039	0.25	980	164
0028	9/32	0.281	0.261		.029		.033	.010	.025	±.002	0.256		0.49	0.47	.083	.038	.025	.039	0.24	990	160
0031	5/16	0.312	0.290		.029		.036	.011	.025		0.281		0.54	0.52	.090	.040	.026	.039	0.27	1100	194
0034	11/32	0.344	0.321	±.002	.029	+.003	.038	.012	.025		0.309		0.57	0.55	.090	.042	.026	.039	0.31	1210	224
0035	—	0.354	0.330		.029	-.000	.038	.012	.025		0.320		0.59	0.57	.090	.046	.029	.039	0.35	1250	240
0037	3/8	0.375	0.352		.029		.038	.012	.025		0.338		0.61	0.59	.091	.050	.030	.039	0.39	1320	244
0039	—	0.394	0.369		.029		.041	.013	.025		0.354		0.62	0.60	.090	.052	.031	.039	0.42	1390	278
0040	13/32	0.406	0.382		.029		.039	.012	.025		0.366		0.63	0.61	.090	.054	.033	.039	0.43	1430	275

Standard material - carbon spring steel. Standard finish - phosphate and oil.