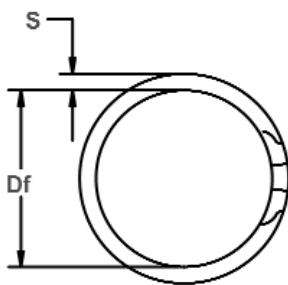


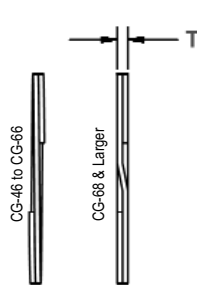
CG Spiral Shaft Rings

External, Heavy Duty

The rigors of the toughest applications are easily handled by this external series. Its large size, and ease of application and removal, transfers into an assurance of quality for demanding uses.

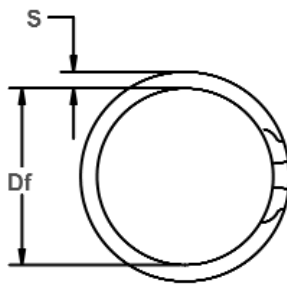


Free Diameter & Ring Measurements

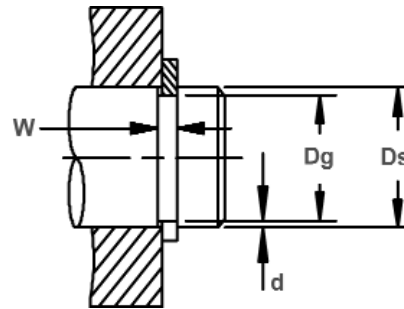


Shaft Diameter & Groove Dimensions

RING NO.	SHAFT DIAMETER (In.)	GROOVE SIZE					RING SIZE						THRUST LOAD (lbs.)	
		DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS		SECTION		RING Safety factor of 3	GROOVE Safety factor of 2
		Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	S	Tol.		
CG-46	.469	.443		.029		.013	.439		.025		.045		1880	430
CG-50	.500	.468	+.002	.039		.016	.464		.035		.050		2530	570
CG-55	.551	.519	-.002	.039		.016	.514		.035		.050		2790	620
CG-56	.562	.530		.039		.016	.525		.035		.050		2840	640
CG-59	.594	.559		.039		.018	.554		.035		.050		3000	760
CG-62	.625	.588		.039		.019	.583		.035		.055		3160	840
CG-66	.669	.629		.039		.020	.623		.035		.055		3380	950
CG-68	.688	.646		.046		.021	.641		.042		.065		4180	1020
CG-75	.750	.704	+.003	.046	-.000	.023	.698		.042		.065		4550	1220
CG-78	.781	.733	-.003	.046		.024	.727		.042		.065		4740	1330
CG-81	.812	.762		.046		.025	.756	+.000	.042	+.002	.065	+.004	4930	1440
CG-87	.875	.821		.046		.027	.814	-.013	.042	-.002	.075	-.004	5310	1670
CG-93	.938	.882		.046		.028	.875		.042		.075		5690	1860
CG-98	.984	.926		.046		.029	.919		.042		.085		5970	2020
CG-100	1.000	.940		.046		.030	.932		.042		.085		6070	2120
CG-102	1.023	.961		.046		.031	.953		.042		.085		6210	2240
CG-106	1.062	.998		.056		.032	.986		.050		.103		7010	2400
CG-112	1.125	1.059		.056		.033	1.047		.050		.103		7420	2620
CG-118	1.188	1.118		.056		.035	1.105		.050		.103		7840	2940
CG-125	1.250	1.176	+.004	.056		.037	1.163		.050		.103		8250	3270
CG-131	1.312	1.232	-.004	.056	+.004	.040	1.218		.050		.118		8660	3710
CG-137	1.375	1.291		.056	-.000	.042	1.277		.050		.118		9070	4080
CG-143	1.438	1.350		.056		.044	1.336		.050		.118		9490	4470
CG-150	1.500	1.406		.056		.047	1.390		.050		.118		9900	4980
CG-156	1.562	1.468	+.005	.068		.047	1.453	+.000	.062	+.003	.128		12780	5190
CG-162	1.625	1.529	-.005	.068		.048	1.513	-.020	.062	-.003	.128		13290	5510



Free Diameter & Ring Measurements



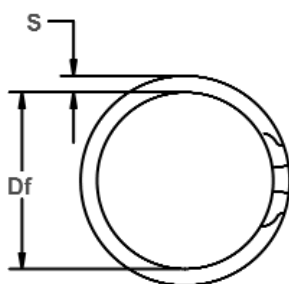
Shaft Diameter & Groove Dimensions

RING NO.	SHAFT DIAMETER	GROOVE SIZE					RING SIZE						THRUST LOAD (lbs.)	
		DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS		SECTION		RING Safety factor of 3	GROOVE Safety factor of 2
	(In.)													
	Ds	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	S	Tol.		
CG-168	1.687	1.589	+.005 -.005	.068	+.004 -.000	.049	1.573	+.000 -.020	.062		.128	+.004 -.004	13800	5840
CG-175	1.750	1.650		.068		.050	1.633		.062		.128		14320	6190
CG-177	1.771	1.669		.068		.051	1.651		.062		.128		14490	6380
CG-181	1.812	1.708		.068		.052	1.690		.062		.128		14820	6660
CG-187	1.875	1.769		.068		.053	1.751		.062		.158		15340	7020
CG-196	1.969	1.857		.068		.056	1.838		.062		.158		16110	7790
CG-200	2.000	1.886		.068		.057	1.867		.062		.158		16360	8060
CG-206	2.062	1.946	+.006 -.006	.086	+.005 -.000	.058	1.932	+.000 -.025	.078	+.003 -.003	.168	+.005 -.005	21220	8450
CG-212	2.125	2.003		.086		.061	1.989		.078		.168		21870	9160
CG-215	2.156	2.032		.086		.062	2.018		.078		.168		22190	9450
CG-225	2.250	2.120		.086		.065	2.105		.078		.168		23160	10340
CG-231	2.312	2.178		.086		.067	2.163		.078		.168		23800	10950
CG-237	2.375	2.239		.086		.068	2.223		.078		.200		24440	11420
CG-243	2.437	2.299		.086		.069	2.283		.078		.200		25080	11890
CG-250	2.500	2.360		.086		.070	2.343		.078		.200		25730	12370
CG-255	2.559	2.419		.086		.070	2.402		.078		.200		26340	12660
CG-262	2.625	2.481		.086		.072	2.464		.078		.200		27020	13360
CG-268	2.687	2.541		.086		.073	2.523		.078		.200		27660	13870
CG-275	2.750	2.602		.103		.074	2.584		.093		.225		32140	14390
CG-287	2.875	2.721		.103		.077	2.702		.093		.225		33600	15650
CG-293	2.937	2.779		.103		.079	2.760		.093		.225		34320	16400
CG-300	3.000	2.838		.103		.081	2.818		.093		.225		35060	17180
CG-306	3.062	2.898		.103		.082	2.878		.093		.225		35790	17750
CG-312	3.125	2.957		.103		.084	2.936		.093		.225		36520	18560
CG-315	3.156	2.986	.103	.085	2.965	.093	.225	36880	18960					
CG-325	3.250	3.076	.103	.087	3.054	.093	.225	37980	19990					
CG-334	3.344	3.166	.103	.089	3.144	.093	.225	39080	21040					
CG-343	3.437	3.257	.103	.090	3.234	.093	.225	40170	21870					

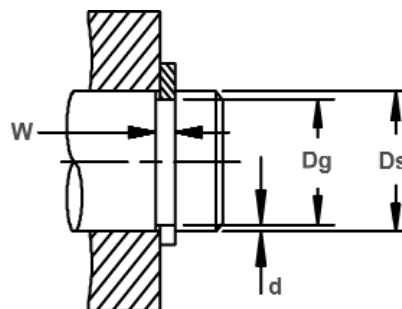
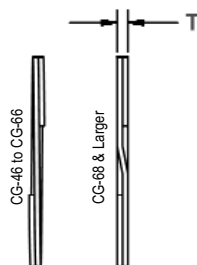
CG Spiral Shaft Rings

External, Heavy Duty

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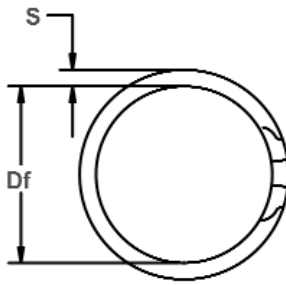


Free Diameter & Ring Measurements

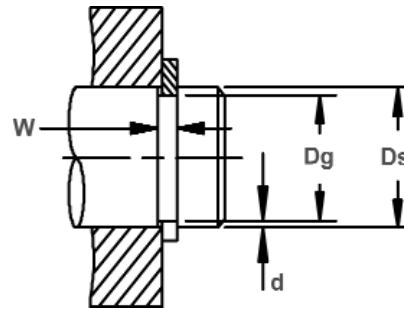
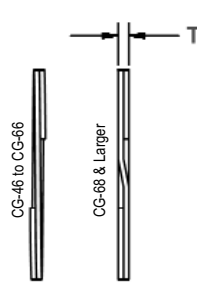


Shaft Diameter & Groove Dimensions

RING NO.	SHAFT DIAMETER	GROOVE SIZE					RING SIZE						THRUST LOAD (lbs.)	
		DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS		SECTION		RING Safety factor of 3	GROOVE Safety factor of 2
	(In.)													
	Ds	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	S	Tol.		
CG-350	3.500	3.316	+.006 -.006	.120	+.005 -.000	.092	3.293	+.000 -.035	.111	+.003 -.003	.270	+.005 -.005	48820	22760
CG-354	3.543	3.357		.120		.093	3.333		.111		.270		49420	23290
CG-362	3.625	3.435		.120		.095	3.411		.111		.270		50560	24340
CG-368	3.687	3.493		.120		.097	3.469		.111		.270		51430	25280
CG-375	3.750	3.552		.120		.099	3.527		.111		.270		52310	26240
CG-387	3.875	3.673		.120		.101	3.647		.111		.270		54050	27670
CG-393	3.938	3.734		.120		.102	3.708		.111		.270		54930	28390
CG-400	4.000	3.792		.120		.104	3.765		.111		.270		55800	29410
CG-425	4.250	4.065		.120		.093	4.037		.111		.270		59280	27940
CG-437	4.375	4.190		.120		.093	4.161		.111		.270		61030	28760
CG-450	4.500	4.310		.120		.095	4.280		.111		.270		62770	30220
CG-475	4.750	4.550		.120		.100	4.518		.111		.270		66260	36930
CG-500	5.000	4.790	.120	.105	4.756	.111	.270	69740	37110					
CG-525	5.250	5.030	+.007 -.007	.139	+.006 -.000	.110	4.995	+.000 -.050	.127	+.004 -.004	.350	+.006 -.006	83790	40820
CG-550	5.500	5.265		.139		.118	5.228		.127		.350		87780	45880
CG-575	5.750	5.505		.139		.123	5.466		.127		.350		91770	49990
CG-600	6.000	5.745		.139		.128	5.705		.127		.350		95760	54290
CG-625	6.250	5.985	+.008 -.008	.174	+.008 -.000	.133	5.938	+.000 -.060	.156	+.005 -.005	.418	+.007 -.007	122520	58760
CG-650	6.500	6.225		.174		.138	6.181		.156		.418		127420	63410
CG-675	6.750	6.465		.174		.143	6.410		.156		.418		132330	68230
CG-700	7.000	6.705		.174		.148	6.648		.156		.418		137230	73230
CG-725	7.250	6.942		.174		.154	6.891	.156	.418		142130		78920	
CG-750	7.500	7.180		.209		.160	7.130	.187	.437		176240		84820	
CG-775	7.750	7.420		.209		.165	7.368	.187	.437		182120		90390	
CG-800	8.000	7.660		.209		.170	7.606	.187	.437		187990		96130	
CG-825	8.250	7.900		.209		.175	7.845	.187	.437		193870		102050	
CG-850	8.500	8.140		.209		.180	8.083	.187	.437		199740		108150	



Free Diameter & Ring Measurements



Shaft Diameter & Groove Dimensions

RING NO.	SHAFT DIAMETER (In.)	GROOVE SIZE					RING SIZE						THRUST LOAD (lbs.)	
		DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS		SECTION		RING Safety factor of 3	GROOVE Safety factor of 2
		Ds	Dg	Tol.	W	Tol.	d	Df	T	Tol.	S	Tol.		
CG-875	8.750	8.383			.209		.184	8.324	.187		.437		205620	113800
CG-900	9.000	8.620			.209		.190	8.560	.187		.500		211490	120870
CG-925	9.250	8.860	+.008 -.008	.209			.195	8.798	+.000 -.070	.187	.500	+.007 -.007	217370	127500
CG-950	9.500	9.100		.209			.200	9.036		.187	.500		223240	134300
CG-975	9.750	9.338		.209			.206	9.275		.187	.500		229120	141970
CG-1000	10.000	9.575		.209			.213	9.508		.187	.500		234990	150560
CG-1025	10.250	9.814		.209			.218	9.745		.187	.500		240870	157950
CG-1050	10.500	10.054		.209			.223	9.984		.187	.500		246740	165510
CG-1075	10.750	10.293		.209			.229	10.221		.187	.500		252620	174010
CG-1100	11.000	10.533		.209			.234	10.459		.187	.500		258490	181950
CG-1125	11.250	10.772	+.010 -.010	.209	+.008 -.000		.239	10.692	+.000 -.090	.187	.500	+.005 -.005	264360	190060
CG-1150	11.500	11.011		.209			.245	10.934		.187	.562		270240	199160
CG-1175	11.750	11.250		.209			.250	11.171		.187	.562		276120	207640
CG-1200	12.000	11.490		.209			.255	11.410		.187	.562		281990	216300
CG-1225	12.250	11.729		.209			.261	11.647		.187	.562		287860	226000
CG-1250	12.500	11.969		.209			.266	11.885		.187	.562		293740	235030
CG-1275	12.750	12.208		.209			.271	12.124		.187	.562		299610	244240
CG-1300	13.000	12.448		.209			.276	12.361		.187	.662	+.015 -.010	305490	253620
CG-1325	13.250	12.687		.209			.282	12.598		.187	.662		311360	264120
CG-1350	13.500	12.927		.209			.287	12.837		.187	.662		317240	273870
CG-1375	13.750	13.166	+.012 -.012	.209			.292	13.074	+.000 -.110	.187	.662		323110	283800
CG-1400	14.000	13.405		.209			.298	13.311		.187	.662		328990	294900
CG-1425	14.250	13.644		.209			.303	13.548		.187	.662		334860	305200
CG-1450	14.500	13.884		.209			.308	13.787		.187	.750		340740	315680
CG-1475	14.750	14.123		.209			.314	14.024		.187	.750		346610	327380
CG-1500	15.000	14.363		.209			.319	14.262		.187	.750		352490	338230