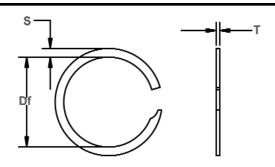
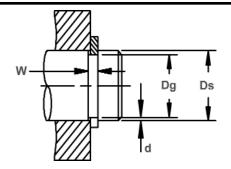
CL Spiral Shaft Rings

External, Light Duty These single-turn retaining rings are ideal for light-duty applications, or where axial positioning is the primary function.





Free Diameter & Ring Measurements

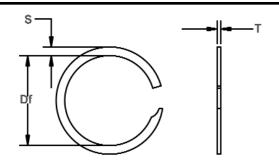
Shaft Diameter & Groove Dimensions

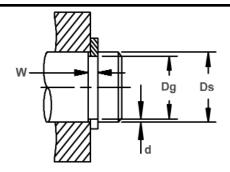
RING	SHAFT		GROOVE SIZE				THURST LOAD (lbs.)							
NO.	DIAMETER DIAMETER (In.)		WIDTH		DIAM			THICK		SECTION		RING Safety factor of 3	GROOVE Safety factor of 2	
	Ds	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	S	Tol.	Pr	Pg
CL-50	.500	.472	+.002	.022	+.002	.014	.467		.018	+.0015 0015	.045		1300	500
CL-56	.562	.534		.022		.014	.529		.018		.045		1460	560
CL-62	.625	.597	002	.022		.014	.591	+.000 013 +.000 015	.018		.045		1630	620
CL-68	.687	.659	ш	.022		.014	.652		.018		.045		1790	680
CL-75	.750	.722		.022		.014	.715		.018		.045		1950 2460	740
CL-81 CL-87	.812 .875	.770 .833		.026 .026		.021 .021	.762 .825		.021		.065 .065		2660	1210 1300
CL-87			+.003	.026					.021				2840	
CL-93	.937 1.000	.895 .958	003	.026		.021	.886 .949		.021		.065 .065		3040	1390 1480
CL-100	1.062	1.018		.020		.022	1.008		.025		.065		3500	1650
CL-100	1.125	1.016	1 1	.031		.022	1.006		.025		.088		3710	1750
CL-112	1.123	1.143	1 1	.031		.022	1.132		.025		.088		3920	1850
CL-116	1.250	1.206	+.004	.031		.022	1.194		.025		.088		4120	1940
CL-123	1.312	1.268	004	.031		.022	1.255		.025		.088	1	4330	2040
CL-137	1.375	1.331	007	.031		.022	1.318		.025		.088	1	4540	2140
CL-143	1.437	1.393		.031		.022	1.379		.025		.088	1	4740	2240
CL-150	1.500	1.456		.031		.022	1.442		.025		.088	+.004 004	4950	2330
CL-156	1.562	1.505		.039		.029	1.488	+.000 020 +.000 025	.031	+.002	.118		6390	3200
CL-162	1.625	1.568		.039	+.003	.029	1.550		.031		.118		6650	3330
CL-168	1.687	1.630		.039		.029	1.612		.031		.118		6900	3460
CL-175	1.750	1.693	+.005	.039		.029	1.674		.031		.118		7160	3590
CL-181	1.812	1.755	005	.039		.029	1.736		.031		.118		7410	3710
CL-187	1.875	1.818	.000	.039		.029	1.798		.031		.118	1	7670	3840
CL-193	1.937	1.880		.039		.029	1.859		.031		.118		7920	3970
CL-200	2.000	1.943	1 1	.039		.029	1.922		.031		.118		8180	4100
CL-206	2.062	1.986		.039		.038	1.963		.031		.158		8430	5540
CL-212	2.125	2.049	1 1	.039		.038	2.026		.031		.158	1	8690	5710
CL-218	2.187	2.111	1 1	.039		.038	2.087		.031		.158	1	8950	5870
CL-225	2.250	2.174	1 1	.039		.038	2.149		.031		.158		9200	6040
CL-231	2.312	2.236]	.039		.038	2.211		.031		.158]	9460	6210
CL-237	2.375	2.299	.361 .424 .486 .549 .006 .611 .674 .736 .799 .861 .924	.039		.038	2.273		.031		.158		9720	6380
CL-243	2.437	2.361		.039		.038	2.335		.031		.158	[9970	6550
CL-250	2.500	2.424		.039		.038	2.397		.031		.158		10230	6720
CL-256	2.562	2.486		.039		.038	2.458		.031		.158		10480	6880
CL-262	2.625	2.549		.039		.038	2.521		.031		.158		10740	7050
CL-268	2.687	2.611		.039		.038	2.582		.031		.158		10990	7220
CL-275	2.750	2.674		.039		.038	2.644		.031		.158		11250	7390
CL-281	2.812	2.736		.039		.038	2.706		.031		.158		11500	7550
CL-287	2.875	2.799		.039		.038	2.768		.031		.158		11760	7720
CL-293	2.937	2.861		.039		.038	2.830		.031		.158		12010	7890
CL-300	3.000	2.924		.039		.038	2.892		.031		.158	+.005	12270	8060
CL-306	3.062	2.970		.044		.046	2.938		.039		.188		15760	9960
CL-312	3.125	3.033		.044		.046	3.001	030	.039		.188	005	16080	10160

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Free Diameter & Ring Measurements

Shaft Diameter & Groove Dimensions

RING	SHAFT		G	ROOVE SIZE					THRUST LOAD (lbs.)					
NO.	DIAMETER	DIAMETER		WIDTH		DEPTH	FREE		RING SIZE THICKNESS		SEC	TION	RING	GROOVE
							DIAMETER				0.000		Safety	Safety
	(In.)												factor of	factor of
	Ds	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	S	Tol.	3	2
CL-318	3.187	3.095		.044		.046	3.062		.039		.188		16400	10360
CL-325	3.250	3.158		.044]	.046	3.125]	.039		.188		16720	10570
CL-331	3.312	3.220	+.006 006	.044	+.003	.046	3.186	+.000 030	.039	-	.188		17040	10770
CL-337	3.375	3.283		.044		.046	3.248		.039		.188		17370	10970
CL-343	3.437	3.345		.044		.046	3.310		.039		.188		17690	11180
CL-350	3.500	3.408		.044		.046	3.372		.039				18010	11380
CL-356	3.562	3.47		.044		.046	3.433		.039		.188		18330	11580
CL-362	3.625	3.533		.044		.046	3.496		.039		.188		18650	11790
CL-368	3.687	3.595 3.658		.044		.046	3.557 3.620		.039		.188 .188		18970 19300	11990 12190
CL-375 CL-381	3.750 3.812	3.720		.044		.046	3.681		.039		.188 .188		19620	12190
CL-387	3.875	3.783	•	.044		.046	3.743		.039				19020	12600
CL-393	3.937	3.845		.044		.046	3.805		.039				20260	12800
CL-400	4.000	3.908		.044	1	.046	3.867	1	.039		.188	+.005	20580	13010
CL-412	4.125	4.015		.052		.055	3.973		.046		.225	005	23850	16040
CL-425	4.250	4.140		.052	1	.055	4.097	1	.046	1	.225		24570	16520
CL-437	4.375	4.265		.052	1	.055	4.221	1 1	.046		.225		25290	17010
CL-450	4.500	4.390		.052	1	.055	4.345	+.000	.046		.225		26010	17500
CL-462	4.625	4.515		.052	1	.055	4.468	035	.046		.225		26740	17980
CL-475	4.750	4.640	+.007 007	.052	+.004 000	.055	4.592	+.000 045	.046	+.002	.225 .225 .225 .225 .225 .225 .225 .265 .26		27460	18470
CL-487	4.875	4.765		.052		.055	4.715		.046	002			28180	18950
CL-500	5.000	4.890		.052		.055	4.839		.046				28900	19440
CL-525	5.250	5.119		.067		.066	5.067		.061				40240	24490
CL-550	5.500	5.363		.067		.069	5.309		.061				42160	26830
CL-575	5.750	5.606		.067		.072	5.550		.061				44080	29260
CL-600	6.000	5.850		.067		.075	5.792		.061				45990	31810
CL-625	6.250	6.094		.067		.078	6.033		.061				47910	34460
CL-650	6.500	6.338		.067		.081	6.275		.061				49830	37220
CL-675	6.750	6.581		.067		.085	6.515 6.757		.061			+.004 008	51740	40560
CL-700 CL-725	7.000 7.250	6.825 7.069		.067		.088	6.998		.061 .061				53660 55580	43540 46640
CL-725 CL-750	7.500	7.009		.067	+.005 005	.091	7.240	+.000 060	.061		.300		57490	49830
CL-750 CL-775	7.750	7.556	+.008	.067		.094	7.480		.061		.300		59410	53140
CL-800	8.000	7.800	008	.067		.100	7.722		.061				61320	56550
CL-825	8.250	8.044		.082		.103	7.964		.076		.345		78790	60070
CL-850	8.500	8.288		.082		.106	8.205		.076		.345		81180	63690
CL-875	8.750	8.531		.082		.110	8.446		.076		.345		83570	68040
CL-900	9.000	8.775		.082		.113	8.687	+.000	.076	ŀ	.345		85950	71890
CL-925	9.250	9.019		.082		.116	8.929		.076		.345		88340	75850
CL-950	9.500	9.263		.082	1	.119	9.170	070	.076		.345		90730	79910
CL-975	9.750	9.506		.082	1	.122	9.411	1	.076		.345		93120	84080
CL-1000	10.000	9.750		.082	1	.125	9.653	<u> </u>	.076		.345		95500	88360