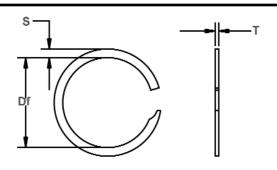
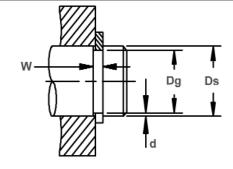


CL Spiral Shaft Rings

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



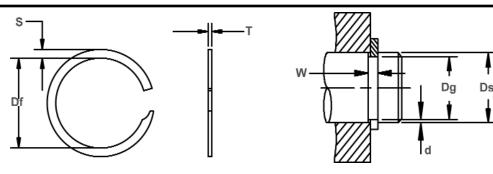


Free Diameter & Ring Measurements

Shaft Diameter & Groove Dimensions

RING	SHAFT			GROOVE SIZI				THURST LOAD (lbs.)						
NO.	DIAMETER	DIAMETER		WIDTH		DEPTH	FREE DIAMETER		RING SIZE THICKNESS		SECTION		RING Safety factor of 3	GROOVE Safety factor of 2
01 50	(In.)	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	S	Tol.	Pr	Pg
CL-50	.500	.472		.022	-	.014	.467	ļ	.018	+.0015 0015	.045		1300	500
CL-56	.562	.534	+.002		.022 .022 .022 .022 .026	.014	.529	ł	.018		.045		1460	560
CL-62	.625	.597	002			.014	.591	+.000 013	.018		.045		1630	620
CL-68 CL-75	.687 .750	.659	4			.014 .014	.652		.018		.045		1790	680
CL-75	./50	.722 .770	$\vdash$			.014	.715 .762		.018		.045 .065		1950 2460	740 1210
CL-87	.875	.833	+.003	.026	-	.021	.825		.021		.065		2660	1300
CL-87	.937	.895	003	.026	+.002 000	.021	.886	ł	.021		.065	1	2840	1390
CL-93	1.000	.958	003	.026		.021	.949		.021		.065		3040	1480
CL-106	1.062	1.018		.026	000	.021	1.008	_	.021		.003		3500	1650
CL-106	1.125	1.016	1	.031	1	.022	1.006	+.000 015	.025		.088		3710	1750
CL-112	1.125	1.143	1 1	.031		.022	1.132		.025	1	.088		3920	1850
CL-116	1.250	1.206	+.004	.031		.022	1.194		.025		.088	1	4120	1940
CL-123	1.312	1.268	004	.031		.022	1.255		.025		.088		4330	2040
CL-137	1.375	1.331	004	.031		.022	1.318		.025		.088		4540	2140
CL-143	1.437	1.393	-	.031	1	.022	1.379		.025	1	.088	1	4740	2240
CL-150	1.500	1.456	1 1	.031	1	.022	1.442		.025	. H	.088	1	4950	2330
CL-156	1.562	1.505		.039		.029	1.488	+.000 020 +.000 025 +.000 030	.031		.118	+.004 004	6390	3200
CL-162	1.625	1.568		.039	1	.029	1.550		.031		.118		6650	3330
CL-168	1.687	1.630		.039	+.003 000	.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	1 .000	.039		.029	1.798		.031		.118		7670	3840
CL-193	1.937	1.880	1	.039		.029	1.859		.031	1	.118	1	7920	3970
CL-200	2.000	1.943		.039		.029	1.922		.031	+.002 002	.118	1	8180	4100
CL-206	2.062	1.986		.039		.038	1.963		.031		.158		8430	5540
CL-212	2.125	2.049	1	.039		.038	2.026		.031		.158		8690	5710
CL-218	2.187	2.111	1	.039		.038	2.087		.031		.158		8950	5870
CL-225	2.250	2.174	1	.039		.038	2.149		.031		.158	1	9200	6040
CL-231	2.312	2.236	1	.039		.038	2.211		.031		.158		9460	6210
CL-237	2.375	2.299	٦ .	.039		.038	2.273		.031	1	.158	1	9720	6380
CL-243	2.437	2.361	1	.039		.038	2.335		.031		.158		9970	6550
CL-250	2.500	2.424	+.006	.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	1	.039		.038	2.582		.031	1	.158		10990	7220
CL-275	2.750	2.674	]	.039		.038	2.644		.031		.158		11250	7390
CL-281	2.812	2.736	1	.039		.038	2.706		.031		.158		11500	7550
CL-287	2.875	2.799	1	.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	1	.039	1	.038	2.892		.031		.158		12270	8060
CL-306	3.062	2.970 3.033		.044		.046	2.938		.039		.188	+.005	15760	9960
CL-312	3.125		1	.044		.046	3.001		.039		.188	005	16080	10160





Free Diameter & Ring Measurements

Shaft Diameter & Groove Dimensions

RING	SHAFT		G	ROOVE SIZE					THRUST LOAD (lbs.)					
NO.	DIAMETER			WIDTH   DEPTH			RING SIZE FREE   THICKNESS   SECTION					TION	RING GROOVE	
							DIAME	TER					Safety	Safety
													factor of	factor of
	(ln.)	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	]	.044	+.003 000	.046	3.186	+.000	.039		.188 .188 .188 .188 .188 .188 .188	+.005 005	17040	10770
CL-337	3.375	3.283	+.006 006	.044		.046	3.248		.039				17370	10970
CL-343	3.437	3.345		.044		.046	3.310		.039				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				18330	11580
CL-362	3.625	3.533		.044		.046	3.496		.039				18650	11790
CL-368	3.687	3.595		.044		.046	3.557		.039				18970	11990 12190
CL-375 CL-381	3.750 3.812	3.658 3.720		.044		.046	3.620 3.681		.039		.188 .188		19300 19620	12190
CL-387	3.875	3.783		.044		.046	3.743		.039	1	.188		19940	12600
CL-393	3.937	3.845		.044		.046	3.805		.039	1	.188		20260	12800
CL-393	4.000	3.908		.044		.046	3.867		.039	ł	.188		20580	13010
CL-412	4.125	4.015		.052	_	.055	3.973		.046	1	.225		23850	16040
CL-425	4.250	4.140	l	.052	1	.055	4.097	1	.046	1	.225	.000	24570	16520
CL-437	4.375	4.265		.052	1	.055	4.221	1	.046	1	.225		25290	17010
CL-450	4.500	4.390	i	.052	1	.055	4.345	+.000	.046	1	.225		26010	17500
CL-462	4.625	4.515	i	.052	1	.055	4.468	035	.046	1	.225		26740	17980
CL-475	4.750	4.640	1	.052	1	.055	4.592	1	.046	+.002	.225		27460	18470
CL-487	4.875	4.765	+.007	.052	1	.055	4.715	1	.046	002	.225		28180	18950
CL-500	5.000	4.890	007	.052	1	.055	4.839		.046	1	.225		28900	19440
CL-525	5.250	5.119	]	.067	+.004	.066	5.067		.061		.225		40240	24490
CL-550	5.500	5.363		.067	000	.069	5.309		.061		.225		42160	26830
CL-575	5.750	5.606		.067		.072	5.550	+.000 045	.061		.225		44080	29260
CL-600	6.000	5.850		.067		.075	5.792		.061		.225		45990	31810
CL-625	6.250	6.094		.067		.078	6.033		.061		.265		47910	34460
CL-650	6.500	6.338	ļ	.067	4	.081	6.275		.061		.265		49830	37220
CL-675	6.750	6.581	ļ	.067	1	.085	6.515		.061		.265		51740	40560
CL-700	7.000	6.825	l	.067	4	.088	6.757	-	.061		.265		53660	43540
CL-725	7.250	7.069	ļ	.067	-	.091	6.998		.061		.300		55580	46640
CL-750 CL-775	7.500 7.750	7.313 7.556	. 000	.067 .067	1	.094 .097	7.240 7.480	1	.061		.300		57490 59410	49830 53140
CL-775	8.000	7.800	+.008	.067		.100	7.400	+.000 060	.061	1	.300		61320	56550
CL-825	8.250	8.044		.082		.100	7.722		.076	1			78790	60070
CL-850	8.500	8.288	1	.082	1	.106	8.205	000	.076	1	.345	+.004	81180	63690
CL-875	8.750	8.531	1	.082	1	.110	8.446	1	.076	1	.345	004	83570	68040
CL-900	9.000	8.775	1	.082	+.005	.113	8.687		.076	1	.345	000	85950	71890
CL-925	9.250	9.019	1	.082	005	.116	8.929	+.000	.076	1	.345		88340	75850
CL-950	9.500	9.263	1	.082	1	.119	9.170	070	.076	1	.345		90730	79910
CL-975	9.750	9.506	1	.082	1	.122	9.411	1	.076	1	.345		93120	84080
CL-1000	10.000	9.750	1	.082	1	.125	9.653	1	.076	1	.345		95500	88360