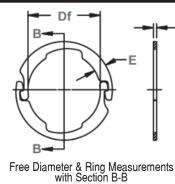
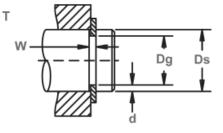


Radially Assembled, External Interlocking

The LC ring is produced in two identical halves. The ends interlock into a groove on a shaft and, once assembled, are dynamically balanced. As a result, they are particularly effective at retaining assemblies with extremely high rotational speeds.

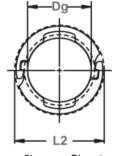




Shaft Diameter & Groove Dimensions



Plier Notch Design (Call for additional information)



Clearance Diameter Installed in Groove

R

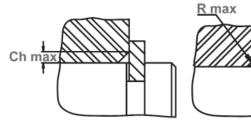
RING	SHAFT				GROOVE SIZE				RING SIZE & WEIGHT			CLEARANCE	î Thrust Id. (Ibs.)			
NO.	0	DIAMETER		DIAM	ETER	WI	DTH	DEPTH	FREE DI	AMETER	THICKNI	ESS***	Weight Per	In- stalled	Sq. Corne Ring	Abutment Groove
													1000 Rings (2 Halves)	in groove	Safety factor of 3	Safety factor of 2
	Ds DEC	Ds Fract	Ds	Dg	Tol.	w	Tol.	d	Df	Tol.	Т	Tol.	lbs.	L2	Pr	Pg
LC-46	.469	15/32	mm 11.9	.419	±.0015	.039	101.	.025	.414	101.	.035	101.	1.36	.640	2030	620
LC-40	.409	1/2	12.7	.419	.004*	.039		.025	.414		.035	4	1.50	.680	2132	480
LC-59	.594	19/32	15.1	.404	.004	.039	+.003	.015	.538	±.002	.035	1	1.74	.766	2538	790
LC-62	.625	5/8	15.9	.575		.039	000	.025	.569	1.002	.035	1	1.82	.700	2690	830
LC-66	.669	-	17.0	.599		.035	.000	.025	.593		.033	1	3.1	.886	3400	1250
LC-75	.750	3/4	19.0	.680	±.002	.046		.035	.673	±.003	.042	±.002	3.5	.967	3806	1400
LC-78	.781	25/32	19.8	.711	*.004	.046		.035	.703	000	.042	002	3.6	.998	4009	1450
LC-87	.875	7/8	22.2	.805		.046		.035	.796		.042	1	3.8	1.092	4466	1600
LC-98	.984	63/64	25.0	.872	±.003	.056		.056	.863		.050	1	7.3	1.273	5938	2900
LC-98	1.000	1	25.4	.872	*.004	.056		.064	.863		.050	1	7.3	1.273	5938	3400
LC-112	1.125	1-1/8	28.6	1.013		.056		.056	1.002		.050	1	7.9	1.42	6801	3350
LC-118	1.188	1-3/16	30.2	1.075	±.003	.056	+.004	.056	1.064	±.004	.050	1	8.5	1.48	7207	3500
LC-125	1.250	1-1/4	31.7	1.138	*.005	.056	000	.056	1.126		.050	1	8.9	1.54	7562	3700
LC-137	1.375	1-3/8	34.9	1.263		.056		.056	1.250	1	.050	1	9.6	1.67	8323	4100
LC-150	1.500	1-1/2	38.1	1.388	1	.056		.056	1.374	1	.050	1	10.6	1.79	9084	4450
LC-156	1.562	1-9/16	39.7	1.427		.068		.068	1.412		.062		16.4	1.91	11926	5650
LC-162	1.625	1-5/8	41.3	1.489	1	.068		.068	1.474	1	.062	1	17.5	1.97	12434	5850
LC-175	1.750	1 -3/4	44.4	1.614	±.005	.068		.068	1.597	±.005	.062	1	18.4	2.10	13398	6300
LC-175	1.772	-	45.0	1.614	*.005	.068		.078	1.597	1	.062	1	18.4	2.10	13398	7350
LC-187	1.875	1-7/8	47.6	1.739		.068		.068	1.721	1	.062	1	20.8	2.22	14312	6800
LC-196	1.969	1-31/32	50.0	1.797	1	.086		.086	1.779		.078	1	31.0	2.37	18524	9000
LC-200	2.000	2	50.8	1.828	1	.086		.086	1.809	1	.078	1	31.6	2.40	18778	9150
LC-212	2.125	2-1/8	54.0	1.953	±.005	.086	+.005	.086	1.933	±.006	.078	±.003	34.2	2.52	19996	9700
LC-212	2.156	2-5/32	54.8	1.953	*.006	.086	000	.101	1.933	1	.078	1	34.2	2.52	19996	11500
LC-225	2.250	2-1/4	57.1	2.078	1	.086		.086	2.057		.078	1	37.3	2.65	21112	10300
LC-237	2.375	2-3/8	60.3	2.203	1	.086		.086	2.180		.078	1	38.9	2.77	22330	10800
LC-250	2.500	2-1/2	63.5	2.328	1	.086		.086	2.304		.078	1	39.7	2.90	23548	11400
LC-262	2.625	2-5/8	66.7	2.453		.086		.086	2.428		.078	1	43.9	3.02	24665	12000
LC-275	2.750	2-3/4	69.8	2.544		.103		.103	2.518		.093]	63.2	3.25	30653	15000
LC-287	2.875	2-7/8	73.0	2.669	±.006	.103		.103	2.642	±.008	.093]	68.4	3.37	32074	15700
LC-300	3.000	3	76.2	2.794	*.006	.103		.103	2.754		.093]	70.4	3.50	33495	16400
LC-325	3.250	3-1/4	82.5	3.044		.103		.103	3.013		.093		77.6	3.75	36286	17800
LC-337	3.375	3-3/8	85.7	3.145		.120		.115	3.114		.109		94.0	3.99	44153	20600

*F.I.M. (FULL INDICATOR MOVEMENT) -MAXIMUM ALLOWABLE DEVIATION OF CONCENTRICITY BETWEEN GROOVE AND SHAFT. î BASED ON HOUSINGS/SHAFTS MADE OF COLD ROLLED STEEL. FOR AN EXPLANATION OF FORMULAS USED TO DERIVE THRUST LOAD AND OTHER PERFORMANCE DATA, CONTACT THE ROTOR CLIP ENGINEERING DEPT. ***FOR PLATED RINGS, ADD .002" TO THE LISTED MAXIMUM THICKNESS. MAXIMUM RING THICKNESS WILL BE A MINIMUM OF .0002" LESS THAN THE LISTED GROOVE WIDTH (W) MINIMUM.

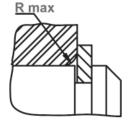
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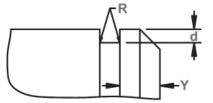
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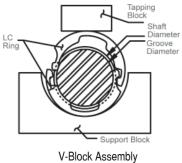




Maximum Corner Radius & Chamfer







Exploded Groove Profile & Edge Margin (Y) Maximum bottom radii (R), .005 for ring sizes -46 thru -98; .010 for ring sizes -112 thru -200; .015 for ring sizes -212 thru -337.

RING NO.	MAXIMUM Section		ALLOWABLE CORNER RADII & CHAMFERS		MAX. LOAD W/R max or Ch max (lbs)	EDGE MARGIN	R.P.M. LIMITS Standard Material
	E	Tol.	R max	Ch max	P'r	Y	
LC-46	.105		.052	.040	610	.075	50000
LC-50	.105		.052	.040	610	.054	50000
LC-59	.105	±.005	.052	.040	610	.075	46000
LC-62	.105		.052	.040	610	.075	45000
LC-66	.135		.065	.050	880	.105	43000
LC-75	.135		.065	.050	880	.105	40000
LC-78	.135		.065	.050	880	.105	39000
LC-87	.135		.065	.050	880	.105	35000
LC-98	.188		.086	.066	1250	.168	31000
LC-98	.188	±.006	.081	.062	1250	.192	30000
LC-112	.188		.086	.066	1250	.168	28000
LC-118	.188		.086	.066	1250	.168	27000
LC-125	.188		.086	.066	1250	.168	26000
LC-137	.188		.086	.066	1250	.168	24000
LC-150	.188		.086	.066	1250	.168	22000
LC-156	.222		.100	.077	1900	.204	21000
LC-162	.222		.100	.077	1900	.204	20500
LC-175	.222		.100	.077	1900	.204	19000
LC-175	.222		.094	.072	1900	.234	19000
LC-187	.222		.100	.077	1900	.204	17000
LC-196	.262		.114	.088	3050	.258	15500
LC-200	.262		.114	.088	3050	.258	15000
LC-212	.262	±.007	.114	.088	3050	.258	14300
LC-212	.262		.104	.080	3050	.303	14300
LC-225	.262		.114	.088	3050	.258	13500
LC-237	.262		.114	.088	3050	.258	12800
LC-250	.262		.114	.088	3050	.258	12000
LC-262	.262		.114	.088	3050	.258	11300
LC-275	.323		.143	.110	4300	.309	10500
LC-287	.323		.143	.110	4300	.309	9800
LC-300	.329	±.008	.143	.110	4300	.309	9000
LC-325	.325		.144	.111	4300	.309	7500
LC-337	.395		.182	.140	5950	.345	6800

1	HARDNESS RANGES: STAINLESS STEEL RINGS (PH 15-7MO)									
	RING TYPE SIZE RANGE SCALE ROCKWELL HARDNESS									
	LC All C 44-51									
	HARDNESS RANGES: BERYLLIUM COPPER RINGS									

HARDNESS RANGES: BERYLLIUM COPPER RINGS							
RING TYPE	RING TYPE SIZE RANGE SCALE ROCKWELL HARDN						
LC	46-62	30N	56.5-62				
	66 & over	С	37-43				

HARDNESS RANGES: CARBON STEEL RINGS (SAE 1060-1090)

TAILENE OF TAIL OF THE THE TAIL TO THE TAIL THE								
RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS					
LC	46-62	30N	65.5-70.5					
	66 & over	С	47-52					

LARGER SIZES MAY BE AVAILABLE UPON REQUEST.

R