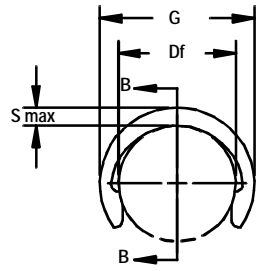




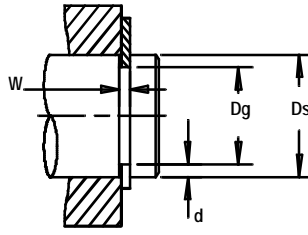
Rotor Clip C Retaining Rings

Radially Assembled, External Retaining Rings

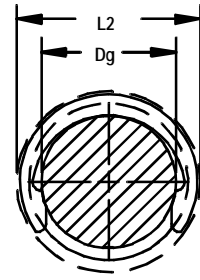
This ring functions in small spaces yet provides a tight, secure grip around the groove.



Free Diameter & Ring Measurements with Section B-B



Shaft Diameter & Groove Dimensions



Clearance Diameter Installed In Groove

RING NO.	SHAFT DIAMETER			GROOVE SIZE			RING SIZE & WEIGHT					CLEARANCE			THRUST LD. (lbs.)		
	Ds DEC	Ds FRACT	Ds mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	Wght. Per 1000 Pcs.	Free out-side dia. REF.	Re-leased in groove	Sqr. Corner Abutment	
																Pr	Pg
C-12	.125	1/8	3.2	.106	±.0015	.020	+.002	.0095	.102	+.002	.015		.030	.165	.18	86	45
C-15	.156	5/32	4.0	.135	*.0015	.020	-.000	.0105	.131	-.004	.015		.052	.205	.22	102	55
C-18	.188	3/16	4.8	.165		.020		.011	.161		.015		.062	.244	.25	132	70
C-21	.219	7/32	5.6	.193	±.002	.029		.013	.187		.025		.120	.275	.29	264	100
C-23	.236	15/64	6.0	.208	*.0015	.029		.014	.203		.025		.15	.295	.31	284	115
C-25	.250	1/4	6.4	.220		.029		.015	.211	+.003	.025		.157	.311	.33	294	130
C-28	.281	9/32	7.1	.247		.029		.017	.242	-.005	.025		.19	.346	.36	335	165
C-31	.312	5/16	7.9	.276	±.002	.029		.018	.270		.025		.226	.376	.39	376	200
C-37	.375	3/8	9.5	.335	*.002	.029		.020	.328		.025		.300	.448	.47	447	270
C-40	.406	13/32	10.3	.364		.029		.021	.359		.025		.352	.486	.50	487	300
C-43	.438	7/16	11.1	.393		.029		.022	.386		.025		.359	.517	.53	528	350
C-50	.500	1/2	12.7	.450	±.003	.039	+.003	.025	.441	±.006	.035	±.002	.671	.581	.60	842	450
C-56	.562	9/16	14.3	.507	*.004	.039	-.000	.028	.497		.035		.710	.653	.67	944	550
C-62	.625	5/8	15.9	.563		.039		.031	.553		.035		.937	.715	.74	1045	700
C-68	.688	11/16	17.5	.619		.046		.034	.608		.042		1.3	.784	.80	1726	800
C-75	.750	3/4	19.0	.676		.046		.037	.665		.042		1.5	.845	.87	1878	1000
C-81	.812	13/16	20.6	.732		.046		.040	.721	±.007	.042		1.7	.915	.94	2040	1150
C-87	.875	7/8	22.2	.789		.046		.043	.777		.042		2.0	.991	1.01	2202	1300
C-93	.938	15/16	23.8	.843		.046		.047	.830		.042		2.3	1.058	1.08	2355	1550
C-100	1.000	1	25.4	.900		.046		.050	.887		.042		2.7	1.130	1.15	2517	1800
C-112	1.125	1-1/8	28.6	1.013		.056		.056	.997		.050		4.0	1.267	1.30	3370	2200
C-125	1.250	1-1/4	31.7	1.126	±.004	.056	+.004	.062	1.110	±.008	.050		5.1	1.415	1.44	3735	2700
C-137	1.375	1-3/8	34.9	1.237	*.005	.056	-.000	.069	1.220		.050		6.1	1.555	1.58	4111	3350
C-150	1.500	1-1/2	38.1	1.350		.056		.075	1.331		.050		7.6	1.691	1.72	4486	4000
C-162	1.625	1-5/8	41.3	1.463		.068		.071	1.563		.062		11.0	1.853	1.88	5506	4650
C-175	1.750	1-3/4	44.4	1.576	±.005	.068		.087	1.555	±.010	.062	±.003	12.9	1.975	2.01	6526	5300
C-200	2.000	2	50.8	1.800	*.005	.068		.100	1.777		.062		16.2	2.257	2.30	7410	7000

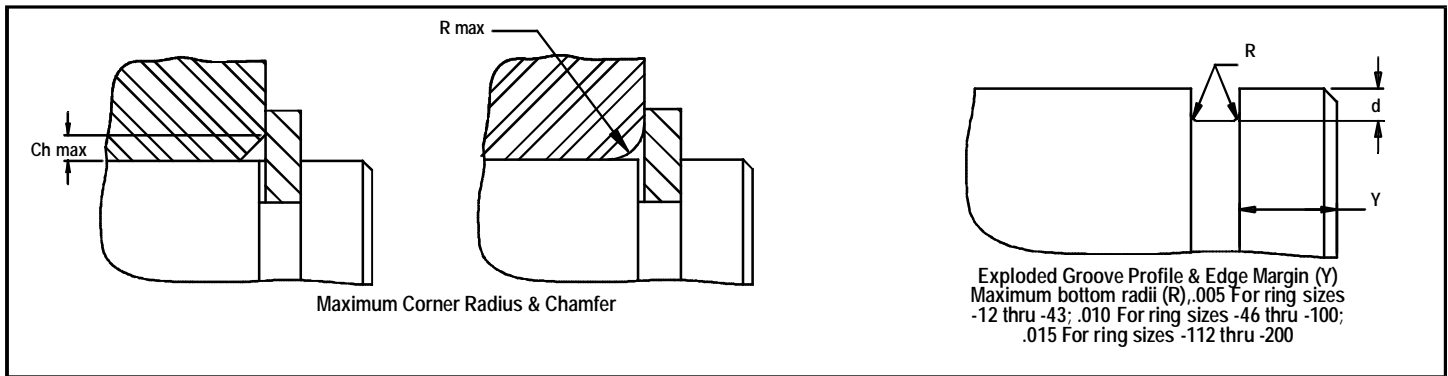
*F.I.M.(FULL INDICATOR MOVEMENT)-MAXIMUM ALLOWABLE DEVIATION OF CONCENTRICITY BETWEEN GROOVE AND SHAFT.

† 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.

For a technical concern,
Please ask for our Technical Sales Department.

1-800-55-ROTOR



RING NO.	MAXIMUM SECTION		ALLOWABLE CORNER RADII & CHAMFERS		MAX LOAD w/ R max or Ch max (in lbs.)	EDGE MARGIN	R.P.M. LIMITS Standard material
	S max	Tol.	R max	Ch max			
C-12	.031	±.003	.014	.011	85	.020	80000
C-15	.037		.018	.014	100	.020	75000
C-18	.042		.021	.016	110	.022	73000
C-21	.044	±.004	.021	.016	260	.026	71000
C-23	.046		.022	.017	275	.028	62000
C-25	.050		.023	.018	290	.030	60000
C-28	.051		.021	.016	310	.034	56000
C-31	.053		.024	.018	310	.036	52000
C-37	.060		.026	.020	310	.040	43000
C-40	.063	±.005	.027	.021	310	.042	40000
C-43	.065		.029	.022	310	.044	31000
C-50	.070		.030	.023	610	.050	25000
C-56	.078		.033	.025	610	.056	22000
C-62	.081		.033	.025	610	.062	20000
C-68	.086		.034	.026	880	.068	18500
C-75	.090		.036	.027	880	.074	17500
C-81	.097		.038	.029	880	.080	16000
C-87	.105	±.007	.040	.031	880	.086	15000
C-93	.112		.043	.033	880	.094	14000
C-100	.120		.046	.035	880	.100	12500
C-112	.135		.052	.040	1250	.112	11500
C-125	.150		.057	.044	1250	.124	10500
C-137	.165		.062	.048	1250	.138	9500
C-150	.180	±.007	.069	.053	1250	.150	8500
C-162	.195		.075	.058	1920	.162	8000
C-175	.210		.081	.062	1920	.174	7500
C-200	.240		.091	.070	1920	.200	6000

LARGER SIZES MAY BE AVAILABLE UPON REQUEST.

TABLE 1: HARDNESS RANGES-ROTOR CLIP STAINLESS STEEL RINGS (PH 15-7 MO)

RING	SIZE RANGE	SCALE	ROCKWELL HARDNESS
C	12-18	15N	82.5-86*
	21-81	30N	63-69.5
	87& over	C	44-51

TABLE 2: HARDNESS RANGES-ROTOR CLIP BERYLLIUM COPPER RINGS

RING	SIZE RANGE	SCALE	ROCKWELL HARDNESS
C	12-62	15N	77-82*
	68-81	30N	54-62
	87& OVER	C	34-43

TABLE 3: HARDNESS RANGES-ROTOR CLIP CARBON STEEL RINGS (SAE 1060-1090)

RING	SIZE RANGE	SCALE	ROCKWELL HARDNESS
C	12-18	15N	86-88.5*
	21-43	30N	67.5-72
	50-81	30N	66-71
	87& over	C	47-52

* Hardness cannot be checked with any degree of accuracy directly on the serings.