

LOWSPEED RCF CHART

These tables give the maximum RCF in *g* for all currently available SORVALL® rotors for lowspeed applications up to 14,000 rpm.

To find the average or minimum RCF, consult your rotor instruction manual for the average or minimum radius, and use the formula given below:

$K = [2.53 \times 10^{11} \ln (R_{max}/R_{min})] / (rpm)^2$ $RCF = 11.17r (rpm/1000)^2$ where *r* = radius in centimeters

	FIXED-ANGLE							SWINGING-BUCKET										
ROTOR: RADIUS, max. cm:	SL-50RT	SP/X	A-500	A-384 outer	A-384 inner	M outer	M inner	H-6000A	H-6000A MPC	HBB-6	LA/S-400							
RPM	RCF																	
500	30	34	34	34	26	34	26	73	52	71	39							
1,000	120	138	138	136	102	136	102	291	207	285	157							
1,500	269	310	310	306	230	306	230	655	467	642	353							
2,000	478	551	551	544	408	544	408	1,164	830	1,141	627							
2,500	747	861	861	850	638	850	638	1,819	1,296	1,782	980							
3,000	1,076	1,241	1,241	1,223	919	1,223	919	2,620	1,867	2,567	1,411							
3,500	1,464	1,689	1,689	1,665	1,251	1,665	1,251	3,566	2,541	3,493	1,921							
4,000	1,912	2,205	2,205	2,175	1,634	2,175	1,634	4,657	3,319	4,563	2,509							
4,500	2,420	2,791	2,791	2,753	2,067	2,753	2,067	5,895	4,200	5,775	3,176							
5,000	2,988	3,446	3,446	3,398	2,552	3,398	2,552	7,277	5,186	7,129	3,921							
5,500	3,615	4,170	4,170	4,112	3,088	4,112	3,088	K = 7,823		K = 8,248								
6,000	4,303	4,962	4,962	4,894	3,675	4,894	3,675											
6,500	5,050	K = 6,904	K = 6,904	K = 5,430	K = 8,917	K = 5,430	K = 8,917											
7,000	5,856																	
	K = 5,740																	
ROTOR: Radius, max. cm:	RTH-250	RTH-250 MPC	RTH-750	RTH-750 MPC	H-400	H-1000B	H-1000B MPC	H-2000B	H-2000B MPC	HG-4L	H-4000							
RPM	RCF																	
500	52	42	52	42	42	52	42	73	58	65	65							
1,000	209	168	207	168	166	209	168	293	232	258	258							
1,500	469	377	466	377	374	469	377	659	523	581	581							
2,000	834	671	828	671	666	834	671	1,172	929	1,033	1,033							
2,500	1,303	1,049	1,294	1,049	1,040	1,303	1,049	1,831	1,452	1,615	1,615							
2,800	1,635	1,315	1,624	1,315	1,305	1,635	1,315	2,297	1,822	2,026	2,026							
3,000	1,877	1,510	1,864	1,510	1,498	1,877	1,510	K = 13,375		2,325	2,325							
3,400	2,411	1,939	2,394	1,939	1,924	2,411	1,939				2,987							
3,500	2,555			2,537	2,055	2,039	3,337				3,165							
3,600	2,703			2,684	2,174	K = 23,233		4,223										
4,000	K = 12,622		3,313	2,684							4,134							
4,500				K = 11,236							5,232							
5,000											6,459							
5,250											7,121							
										K = 8,573	K = 8,573							
ROTOR: Radius, max. cm:	HBB-12	HL-2B	A/S-400															
RPM	RCF																	
500	73	46	39															
1,000	293	186	157															
1,500	659	418	353															
2,000	1,171	743	627															
2,500	1,830	1,162	980															
2,900	2,462	1,563	1,319															
3,000	K = 25,712		1,411															
3,300			1,708															
3,500			1,921															
4,000			2,509															
4,380			3,009															
			K = 12,028															

LOWSPEED RCF CHART (continued)

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To find the average or minimum RCF, consult your rotor instruction manual for the average or minimum radius, and use the formula given below:

$K = [2.53 \times 10^{11} \ln (R_{max}/R_{min})] / (rpm)^2$ $RCF = 11.17r (rpm/1000)^2$ where r = radius in centimeters

	FIXED-ANGLE					
ROTOR: RADIUS, max. cm:	F-12/M.18 7.54	FA-MICRO 1.5 ml 8.47	FA-MICRO 0.5 ml 7.98	FA-MICRO 1.5 ml ins 8.40	FA-MICRO 1.5 ml/.5 ml (1.5 ml) 8.53	FA-MICRO 1.5 ml/.5 ml (0.5 ml) 7.92
RPM	RCF					
1,000	84	95	89	94	95	88
1,500	189	213	201	211	214	199
2,000	337	378	357	375	381	354
2,500	526	591	557	586	596	553
3,000	758	851	802	844	858	796
3,500	1,032	1,159	1,092	1,149	1,167	1,084
4,000	1,348	1,514	1,426	1,501	1,524	1,415
4,500	1,705	1,916	1,805	1,900	1,929	1,791
5,000	2,106	2,365	2,228	2,346	2,382	2,212
5,500	2,548	2,862	2,696	2,838	2,882	2,676
6,000	3,032	3,406	3,209	3,378	3,430	3,185
6,500	3,558	3,997	3,766	3,964	4,026	3,738
7,000	4,127	4,636	4,368	4,598	4,669	4,335
7,500	4,737	5,322	5,014	5,278	5,360	4,976
8,000	5,390	6,055	5,705	6,005	6,098	5,662
8,500	6,085	6,836	6,440	6,779	6,884	6,392
9,000	6,822	7,663	7,220	7,600	7,718	7,166
9,500	7,601	8,539	8,045	8,468	8,599	7,984
10,000	8,422	9,461	8,914	9,383	9,528	8,847
10,500	9,285	10,431	9,827	10,345	10,505	9,753
11,000	10,191	11,448	10,786	11,353	11,529	10,704
11,500	11,138	12,512	11,788	12,409	12,601	11,700
12,000	12,128	13,624	12,836	13,511	13,720	12,739
12,500	K = 1,036	14,783	13,928	14,661	14,888	13,823
13,000		15,989	15,064	15,857	16,102	14,951
13,500		17,243	16,245	17,100	17,365	16,123
14,000		18,544	17,471	18,390	18,675	17,339
		K = 581	K = 455	K = 597	K = 590	K = 468

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