

TYPE E RADIAL LOAD RATINGS

SHAFT SIZES	MINIMUM HOURS LIFE*	RADIAL LOAD RATINGS AT VARIOUS REVOLUTIONS PER MINUTE									
		50	100	150	250	500	750	1000	1200	1360	1530
1 ³ / ₁₆ 1 ¹ / ₄	10000	5297	4303	3810	3269	2655	2351	2157	2042	1966	1898
	30000	3810	3095	2740	2351	1910	1691	1551	1468	1414	1365
	40000	3495	2839	2514	2157	1752	1551	1423	1347	1297	1252
	60000	3095	2514	2226	1910	1551	1373	1260	1193	1149	1109
	100000	2655	2157	1910	1638	1331	1178	1081	1023	986	951
1 ³ / ₈ 1 ⁷ / ₁₆ 35mm	10000	8481	6889	6100	5233	4251	3764	3453	3269	3148	3039
	30000	6100	4955	4387	3764	3057	2707	2483	2351	2264	2186
	40000	5596	4545	4024	3453	2804	2483	2278	2157	2077	2005
	60000	4955	4024	3564	3057	2483	2199	2017	1910	1839	1775
	100000	4251	3453	3057	2623	2130	1886	1730	1638	1578	1523
1 ¹ / ₂ 1 ⁵ / ₈ 1 ¹¹ / ₁₆ 40mm	10000	10928	8877	7860	6743	5477	4850	4449	4212	4057	3916
	30000	7860	6384	5653	4850	3939	3488	3200	3029	2918	2816
	40000	7210	5856	5186	4449	3614	3200	2935	2779	2677	2584
	60000	6384	5186	4592	3939	3200	2833	2599	2461	2370	2288
	100000	5477	4449	3939	3380	2745	2431	2230	2111	2033	1963
1 ³ / ₄ 1 ⁷ / ₈ 1 ¹⁵ / ₁₆ 2 45mm 50mm	10000	14321	11632	10300	8837	7178	6355	5830	5520	5316	5132
	30000	10300	8366	7408	6355	5162	4571	4193	3970	3824	3691
	40000	9448	7674	6795	5830	4735	4193	3846	3642	3507	3386
	60000	8366	6795	6017	5162	4193	3713	3406	3225	3106	2998
	100000	7178	5830	5162	4429	3597	3185	2922	2766	2664	2572
2 ³ / ₁₆ 55mm	10000	15155	12310	10900	9351	7596	6726	6170	5841	5626	5431
	30000	10900	8854	7840	6726	5463	4837	4437	4201	4046	3906
	40000	9999	8121	7191	6170	5011	4437	4070	3854	3712	3583
	60000	8854	7191	6368	5463	4437	3929	3604	3412	3287	3172
	100000	7596	6170	5463	4687	3807	3371	3092	2928	2820	2722
2 ¹ / ₄ 2 ⁷ / ₁₆ 2 ¹ / ₂ 60mm 65mm	10000	16129	13100	11600	9952	8083	7158	6566	6216	5987	5779
	30000	11600	9422	8343	7158	5814	5148	4722	4471	4306	4157
	40000	10641	8643	7653	6566	5333	4722	4332	4101	3950	3813
	60000	9422	7653	6777	5814	4722	4181	3836	3631	3498	3376
	100000	8083	6566	5814	4988	4051	3587	3291	3116	3001	2897
2 ¹¹ / ₁₆ 2 ³ / ₄ 2 ¹⁵ / ₁₆ 3 70mm 75mm	10000	17102	13891	12300	10552	8571	7590	6962	6591	6348	6128
	30000	12300	9991	8846	7590	6165	5459	5007	4741	4566	4407
	40000	11283	9165	8115	6962	5655	5007	4593	4349	4188	4043
	60000	9991	8115	7186	6165	5007	4434	4067	3851	3709	3580
	100000	8571	6962	6165	5289	4296	3804	3489	3304	3182	3071

Note: The **RED** load rating values in the table indicate radical loads that exceed the Maximum Allowable Slip Fit Radical Load. Operation at these conditions may require line-to-line or light press fit on the shaft.



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SHAFT SIZES	RADIAL LOAD RATINGS AT VARIOUS REVOLUTIONS PER MINUTE								
	1640	1750	2060	2420	2730	3050	3320	3820	4490
1 3/16 1 1/4	1859	1823	1736	1654	1596	1543	1505	1443	1374
	1337	1311	1249	1190	1148	1110	1082	1038	988
	1227	1203	1145	1091	1053	1018	993	952	907
	1086	1065	1014	966	932	902	879	843	803
	932	914	870	829	800	774	754	723	689
1 3/8 1 7/16 35mm	2976	2919	2780	2649	2555	2471	2409	2310	-----
	2141	2099	1999	1905	1837	1777	1733	1661	-----
	1964	1926	1834	1747	1685	1630	1589	1524	-----
	1739	1705	1624	1547	1492	1444	1407	1349	-----
	1492	1463	1393	1327	1280	1238	1207	1158	-----
1 1/2 1 5/8 1 11/16 40mm	3835	3761	3582	3413	3292	3184	3104	-----	-----
	2758	2705	2576	2455	2367	2290	2232	-----	-----
	2530	2482	2363	2252	2172	2101	2048	-----	-----
	2241	2197	2092	1994	1923	1860	1813	-----	-----
	1922	1885	1795	1710	1650	1596	1556	-----	-----
1 3/4 1 7/8 1 15/16 2 45mm 50mm	5026	4929	4694	4472	4313	4172	-----	-----	-----
	3615	3545	3376	3217	3102	3001	-----	-----	-----
	3316	3252	3097	2951	2846	2753	-----	-----	-----
	2936	2879	2742	2613	2520	2437	-----	-----	-----
	2519	2470	2352	2241	2162	2091	-----	-----	-----
2 3/16 55mm	5319	5216	4967	4733	4565	-----	-----	-----	-----
	3825	3752	3572	3404	3283	-----	-----	-----	-----
	3509	3441	3277	3122	3012	-----	-----	-----	-----
	3107	3047	2902	2765	2667	-----	-----	-----	-----
	2666	2614	2489	2372	2288	-----	-----	-----	-----
2 1/4 2 7/16 2 1/2 60mm 65mm	5660	5551	5286	5037	-----	-----	-----	-----	-----
	4071	3992	3802	3622	-----	-----	-----	-----	-----
	3734	3662	3487	3323	-----	-----	-----	-----	-----
	3307	3243	3088	2942	-----	-----	-----	-----	-----
	2837	2782	2649	2524	-----	-----	-----	-----	-----
2 11/16 2 3/4 2 15/16 3 70mm 75mm	6002	5886	5605	-----	-----	-----	-----	-----	-----
	4317	4233	4031	-----	-----	-----	-----	-----	-----
	3960	3883	3698	-----	-----	-----	-----	-----	-----
	3506	3439	3274	-----	-----	-----	-----	-----	-----
	3008	2950	2809	-----	-----	-----	-----	-----	-----

Note:
Because the allowable loads, especially at low speeds, are extremely high, be sure the shaft strength is adequate and pillow blocks are base loaded. When imposed load is horizontal, be sure hold-down bolts are adequate. If bearings are cap loaded, full details on load, speed and shaft size should be referred to Moline Bearing Company. Consult Moline for speeds and loads greater than listed.

*“Minimum Hours Life” is the life expected from at least 90% of a given group of bearings operating under identical conditions (proper installation, correct alignment and maintenance). Average life will be approximately five times the minimum life.



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MOLINE BEARING CO.

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TYPE E RADIAL LOAD RATINGS CONTINUED

SHAFT SIZES	MINIMUM HOURS LIFE*	RADIAL LOAD RATINGS AT VARIOUS REVOLUTIONS PER MINUTE									
		50	100	150	200	500	750	1000	1200	1360	1530
3 ³ / ₁₆											
3 ¹ / ₄	10000	27252	22135	19600	16815	13658	12094	11094	10503	10116	9765
3 ⁷ / ₁₆	30000	19600	15920	14097	12094	9823	8698	7979	7554	7276	7023
3 ¹ / ₂	40000	17979	14604	12931	11094	9011	7979	7319	6930	6674	6443
80mm	60000	15920	12931	11450	9823	7979	7065	6481	6136	5910	5705
85mm	100000	13658	11094	9823	8428	6845	6061	5560	5264	5070	4894
	10000	37401	30379	26900	23078	18745	16598	15226	14415	13884	13402
3 ¹⁵ / ₁₆	30000	26900	21850	19347	16598	13482	11938	10951	10368	9986	9639
4	40000	24676	20043	17747	15226	12367	10951	10045	9511	9160	8842
100mm	60000	21850	17747	15715	13482	10951	9697	8895	8421	8111	7829
	100000	18745	15226	13482	11566	9395	8319	7631	7225	6959	6717
	10000	45883	37268	33000	28311	22996	20362	18678	17684	17033	----
4 ⁷ / ₁₆	30000	33000	26804	23734	20362	16539	14645	13434	12719	12250	----
4 ¹ / ₂	40000	30271	24588	21772	18678	15172	13434	12323	11667	11237	----
110mm	60000	26804	21772	19278	16539	13434	11895	10912	10331	9950	----
115mm	100000	22996	18678	16539	14189	11525	10205	9361	8863	8536	----
	10000	63263	51385	45500	39035	31706	28075	25754	24383	----	----
4 ¹⁵ / ₁₆	30000	45500	36957	32725	28075	22804	20192	18523	17537	----	----
5	40000	41738	33902	30019	25754	20918	18523	16991	16087	----	----
125mm	60000	36957	30019	26581	22804	18523	16401	15045	14244	----	----
	100000	31706	25754	22804	19564	15891	14071	12907	12220	----	----
	10000	57579	46769	41412	35528	28858	25553	23440	----	----	----
5 ¹⁵ / ₁₆	30000	41412	33637	29784	25553	20755	18378	16858	----	----	----
6	40000	37988	30856	27322	23440	19039	16858	15464	----	----	----
130mm	60000	33637	27322	24193	20755	16858	14928	13693	----	----	----
135mm	100000	28858	23440	20755	17806	14463	12807	11748	----	----	----
140mm											
150mm											
	10000	97981	79585	70470	60457	49107	43482	----	----	----	----
6 ⁷ / ₁₆	30000	70470	57239	50684	43482	35319	31274	----	----	----	----
6 ¹⁵ / ₁₆	40000	64643	52507	46493	39887	32398	28688	----	----	----	----
7	60000	57239	46493	41168	35319	28688	25402	----	----	----	----
160mm	100000	49107	39887	35319	30300	24612	21793	----	----	----	----
170mm											
180mm											

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	1640	1750	2060	2420	2730	3050	3320	3820	4490
3 3/16									
3 1/4	9564	-----	-----	-----	-----	-----	-----	-----	-----
3 7/16	6879	-----	-----	-----	-----	-----	-----	-----	-----
3 1/2	6310	-----	-----	-----	-----	-----	-----	-----	-----
80mm	5587	-----	-----	-----	-----	-----	-----	-----	-----
85mm	4793	-----	-----	-----	-----	-----	-----	-----	-----
90mm									
3 15/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
4	-----	-----	-----	-----	-----	-----	-----	-----	-----
100mm	-----	-----	-----	-----	-----	-----	-----	-----	-----
	-----	-----	-----	-----	-----	-----	-----	-----	-----
4 7/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
4 1/2	-----	-----	-----	-----	-----	-----	-----	-----	-----
110mm	-----	-----	-----	-----	-----	-----	-----	-----	-----
115mm	-----	-----	-----	-----	-----	-----	-----	-----	-----
	-----	-----	-----	-----	-----	-----	-----	-----	-----
4 15/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
5	-----	-----	-----	-----	-----	-----	-----	-----	-----
125mm	-----	-----	-----	-----	-----	-----	-----	-----	-----
	-----	-----	-----	-----	-----	-----	-----	-----	-----
5 7/16									
5 15/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
6	-----	-----	-----	-----	-----	-----	-----	-----	-----
130mm	-----	-----	-----	-----	-----	-----	-----	-----	-----
135mm	-----	-----	-----	-----	-----	-----	-----	-----	-----
140mm	-----	-----	-----	-----	-----	-----	-----	-----	-----
150mm	-----	-----	-----	-----	-----	-----	-----	-----	-----
	-----	-----	-----	-----	-----	-----	-----	-----	-----
6 7/16									
6 1/2	-----	-----	-----	-----	-----	-----	-----	-----	-----
6 15/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
7	-----	-----	-----	-----	-----	-----	-----	-----	-----
160mm	-----	-----	-----	-----	-----	-----	-----	-----	-----
170mm	-----	-----	-----	-----	-----	-----	-----	-----	-----
180mm	-----	-----	-----	-----	-----	-----	-----	-----	-----

Note:
 Because the allowable loads, especially at low speeds, are extremely high, be sure the shaft strength is adequate and pillow blocks are base loaded. When imposed load is horizontal, be sure hold-down bolts are adequate. If bearings are cap loaded, full details on load, speed and shaft size should be referred to Moline Bearing Company. Consult Moline for speeds and loads greater than listed.

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