

# NORMAL DUTY RADIAL LOAD RATINGS

## Radial Load Ratings In Pounds

| SHAFT SIZES | L10 HOURS LIFE | RADIAL LOAD RATINGS AT VARIOUS REVOLUTIONS PER MINUTE |      |      |      |      |      |      |      |       |       |       |       |
|-------------|----------------|---|------|------|------|------|------|------|------|-------|-------|-------|-------|
|             |                | 50  | 100  | 250  | 500  | 750  | 1000 | 1500 | 2000 | 3000  | 4000  | 5000  |       |
| 1/2         | 5000           | 1167  | 926  | 682  | 542  | 473  | 430  | 376  | 341  | 298   | 271   | 251   |       |
|             | 10000          | 926   | 735  | 542  | 430  | 376  | 341  | 298  | 271  | 237   | 215   | 200   |       |
|             | 5/8            | 20000   | 735  | 583  | 430  | 341  | 298  | 271  | 237  | 215   | 188   | 171   | 158   |
|             | 3/4            | 50000   | 542  | 430  | 317  | 251  | 220  | 200  | 174  | 158   | 138   | 126   | 117   |
|             | 100000         | 430   | 341  | 251  | 200  | 174  | 158  | 138  | 126  | 110   | 100   | 93    |       |
| 7/8         | 5000           | 1276  | 1013 | 746  | 592  | 517  | 470  | 411  | 373  | 326   | 296   | ----- |       |
|             | 10000          | 1013  | 804  | 592  | 470  | 411  | 373  | 326  | 296  | 259   | 235   | ----- |       |
|             | 15/16          | 20000   | 804  | 638  | 470  | 373  | 326  | 296  | 259  | 235   | 205   | 187   | ----- |
|             | 1              | 50000   | 592  | 470  | 346  | 275  | 240  | 218  | 191  | 173   | 151   | 137   | ----- |
|             | 100000         | 470   | 373  | 275  | 218  | 191  | 173  | 151  | 137  | 120   | 109   | ----- |       |
| 1 1/8       | 5000           | 1778  | 1411 | 1040 | 825  | 721  | 655  | 572  | 520  | 454   | 413   | ----- |       |
|             | 10000          | 1411  | 1120 | 825  | 655  | 572  | 520  | 454  | 413  | 360   | 327   | ----- |       |
|             | 1 3/16         | 20000   | 1120 | 889  | 655  | 520  | 454  | 413  | 360  | 327   | 286   | 260   | ----- |
|             | 1 1/4*         | 50000   | 825  | 655  | 483  | 383  | 335  | 304  | 266  | 241   | 211   | 191   | ----- |
|             | 100000         | 655   | 520  | 383  | 304  | 266  | 241  | 211  | 191  | 167   | 152   | ----- |       |
| 1 1/4*      | 5000           | 2343  | 1859 | 1370 | 1087 | 950  | 863  | 754  | 685  | 598   | ----- | ----- |       |
|             | 10000          | 1859  | 1476 | 1087 | 863  | 754  | 685  | 598  | 544  | 475   | ----- | ----- |       |
|             | 1 5/16         | 20000   | 1476 | 1171 | 863  | 685  | 598  | 544  | 475  | 432   | 377   | ----- | ----- |
|             | 1 3/8          | 50000   | 1087 | 863  | 636  | 505  | 441  | 401  | 350  | 318   | 278   | ----- | ----- |
|             | 1 7/16         | 100000  | 863  | 685  | 505  | 401  | 350  | 318  | 278  | 252   | 220   | ----- | ----- |
| 1 1/2       | 5000           | 2698  | 2142 | 1578 | 1252 | 1094 | 994  | 868  | 789  | 689   | ----- | ----- |       |
|             | 10000          | 2142  | 1700 | 1252 | 994  | 868  | 789  | 689  | 626  | 547   | ----- | ----- |       |
|             | 20000          | 1700  | 1349 | 994  | 789  | 689  | 626  | 547  | 497  | 434   | ----- | ----- |       |
|             | 50000          | 1252  | 994  | 732  | 581  | 508  | 461  | 403  | 366  | 320   | ----- | ----- |       |
|             | 100000         | 994   | 789  | 581  | 461  | 403  | 366  | 320  | 291  | 254   | ----- | ----- |       |
| 1 5/8       | 5000           | 2903  | 2304 | 1698 | 1348 | 1177 | 1070 | 934  | 849  | ----- | ----- | ----- |       |
|             | 10000          | 2304  | 1829 | 1348 | 1070 | 934  | 849  | 742  | 674  | ----- | ----- | ----- |       |
|             | 1 11/16        | 20000   | 1829 | 1452 | 1070 | 849  | 742  | 674  | 589  | 535   | ----- | ----- |       |
|             | 1 3/4          | 50000   | 1348 | 1070 | 788  | 626  | 546  | 496  | 434  | 394   | ----- | ----- |       |
|             | 100000         | 1070  | 849  | 626  | 496  | 434  | 394  | 344  | 313  | ----- | ----- | ----- |       |
| 1 7/8       | 5000           | 3200  | 2540 | 1871 | 1485 | 1297 | 1179 | 1030 | 936  | ----- | ----- | ----- |       |
|             | 10000          | 2540  | 2016 | 1485 | 1179 | 1030 | 936  | 817  | 743  | ----- | ----- | ----- |       |
|             | 1 15/16        | 20000   | 2016 | 1600 | 1179 | 936  | 817  | 743  | 649  | 589   | ----- | ----- |       |
|             | 2*             | 50000   | 1485 | 1179 | 869  | 689  | 602  | 547  | 478  | 434   | ----- | ----- |       |
|             | 100000         | 1179  | 936  | 689  | 547  | 478  | 434  | 379  | 345  | ----- | ----- | ----- |       |

\* 1 1/4 and 2 inch bearings are offered in two different insert Outside Diameters (O.D.).

BALL BEARINGS



# NORMAL DUTY RADIAL LOAD RATINGS - CONTINUED

## Radial Load Ratings In Pounds

| SHAFT SIZES  | L10 HOURS LIFE | RADIAL LOAD RATINGS AT VARIOUS REVOLUTIONS PER MINUTE |      |      |      |      |      |      |      |      |      |      |      |
|--------------|----------------|---|------|------|------|------|------|------|------|------|------|------|------|
|              |                | 50  | 100  | 250  | 500  | 750  | 1000 | 1500 | 2000 | 3000 | 4000 | 5000 |      |
| 2*           | 5000           | 3970  | 3151 | 2322 | 1843 | 1610 | 1463 | 1278 | 1161 | ---- | ---- | ---- |      |
|              | 10000          | 3151  | 2501 | 1843 | 1463 | 1278 | 1161 | 1014 | 921  | ---- | ---- | ---- |      |
|              | 2 1/8          | 20000   | 2501 | 1985 | 1463 | 1161 | 1014 | 921  | 805  | 731  | ---- | ---- | ---- |
|              | 2 3/16         | 50000   | 1843 | 1463 | 1078 | 855  | 747  | 679  | 593  | 539  | ---- | ---- | ---- |
|              |                | 100000  | 1463 | 1161 | 855  | 679  | 593  | 539  | 471  | 428  | ---- | ---- | ---- |
| 2 1/4        | 5000           | 4357  | 3458 | 2548 | 2022 | 1767 | 1605 | 1402 | 1274 | ---- | ---- | ---- |      |
|              | 10000          | 3458  | 2745 | 2022 | 1605 | 1402 | 1274 | 1113 | 1011 | ---- | ---- | ---- |      |
|              | 2 3/8          | 20000   | 2745 | 2179 | 1605 | 1274 | 1113 | 1011 | 883  | 803  | ---- | ---- | ---- |
|              | 2 7/16         | 50000   | 2022 | 1605 | 1183 | 939  | 820  | 745  | 651  | 591  | ---- | ---- | ---- |
|              |                | 100000  | 1605 | 1274 | 939  | 745  | 651  | 591  | 517  | 469  | ---- | ---- | ---- |
| 2 1/2        | 5000           | 5214  | 4138 | 3049 | 2420 | 2114 | 1921 | 1678 | ---- | ---- | ---- | ---- |      |
|              | 10000          | 4138  | 3285 | 2420 | 1921 | 1678 | 1525 | 1332 | ---- | ---- | ---- | ---- |      |
|              | 20000          | 3285  | 2607 | 1921 | 1525 | 1332 | 1210 | 1057 | ---- | ---- | ---- | ---- |      |
|              | 50000          | 2420  | 1921 | 1415 | 1123 | 981  | 892  | 779  | ---- | ---- | ---- | ---- |      |
|              | 100000         | 1921  | 1525 | 1123 | 892  | 779  | 708  | 618  | ---- | ---- | ---- | ---- |      |
| 2 3/4        | 5000           | 5542  | 4399 | 3241 | 2573 | 2247 | 2042 | 1784 | ---- | ---- | ---- | ---- |      |
|              | 10000          | 4399  | 3491 | 2573 | 2042 | 1784 | 1621 | 1416 | ---- | ---- | ---- | ---- |      |
|              | 20000          | 3491  | 2771 | 2042 | 1621 | 1416 | 1286 | 1124 | ---- | ---- | ---- | ---- |      |
|              | 50000          | 2573  | 2042 | 1504 | 1194 | 1043 | 948  | 828  | ---- | ---- | ---- | ---- |      |
|              | 100000         | 2042  | 1621 | 1194 | 948  | 828  | 752  | 657  | ---- | ---- | ---- | ---- |      |
| 2 15/16<br>3 | 5000           | 6016  | 4775 | 3518 | 2793 | 2439 | 2216 | 1936 | ---- | ---- | ---- | ---- |      |
|              | 10000          | 4775  | 3790 | 2793 | 2216 | 1936 | 1759 | 1537 | ---- | ---- | ---- | ---- |      |
|              | 20000          | 3790  | 3008 | 2216 | 1759 | 1537 | 1396 | 1220 | ---- | ---- | ---- | ---- |      |
|              | 50000          | 2793  | 2216 | 1633 | 1296 | 1132 | 1029 | 899  | ---- | ---- | ---- | ---- |      |
|              | 100000         | 2216  | 1759 | 1296 | 1029 | 899  | 817  | 713  | ---- | ---- | ---- | ---- |      |
| 3 7/16       | 5000           | 8742  | 6938 | 5112 | 4058 | 3545 | 3221 | ---- | ---- | ---- | ---- | ---- |      |
|              | 10000          | 6938  | 5507 | 4058 | 3221 | 2813 | 2556 | ---- | ---- | ---- | ---- | ---- |      |
|              | 20000          | 5507  | 4371 | 3221 | 2556 | 2233 | 2029 | ---- | ---- | ---- | ---- | ---- |      |
|              | 50000          | 4058  | 3221 | 2373 | 1883 | 1645 | 1495 | ---- | ---- | ---- | ---- | ---- |      |
|              | 100000         | 3221  | 2556 | 1883 | 1495 | 1306 | 1186 | ---- | ---- | ---- | ---- | ---- |      |

\* 1 1/4 and 2 inch bearings are offered in two different insert Outside Diameters (O.D.).

BALL BEARINGS

