# Metric Series Bearings

Standard metric series radial bearings carry moderate radial and thrust loads at low operating torque and provide high performance within small envelope designs. Stainless steel or chrome steel bearings are available with crown or ribbon type metallic cages. Open or shielded bearings may be flanged or unflanged. Various types of seals may be specified depending upon the anticipated environment to which the bearings will be exposed. (See Engineering Section for seal information)

**L SERIES**
Radial open and flanged open bearings..... 3.2
Bore sizes: 1.0-12.0mm

Radial shielded and flanged shielded bearings..... 3.3
Bore sizes: 1.5-12.0mm

**R SERIES**
Radial open and flanged open bearings..... 3.4
Bore sizes: 1.0-12.0mm

Radial shielded and flanged shielded bearings..... 3.5
Bore sizes: 1.5-12.0mm

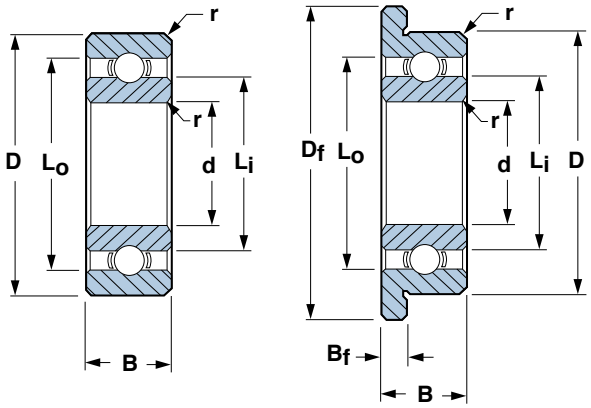
**600/6000 SERIES**
Radial open and shielded bearing..... 3.6
Bore sizes: 5-10mm



# Radial Open and Flanged Open Bearings



| BORE d | | O.D. D | | WIDTH B | | | FLANGE (MM) | | | REFERENCE DIAMETER (MM) | | FILLET RADIUS r | | LOAD RATINGS N | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MM | INCH | MM | INCH | MM | INCH | *BASIC NUMBER | DIA. $D_f$ | WIDTH $B_f$ | FLANGED *BASIC NUMBER | $L_i$ | $L_o$ | MM | INCH | DYN. $C_r$ | STATIC $C_{or}$ |
| 1.0 | .0394 | 3.0 | .1181 | 1.0 | .0394 | DDL-310 | 3.8 | 0.3 | DDLF-310 | 1.60 | 2.41 | 0.05 | .002 | 80 | 23 |
| 1.5 | .0591 | 4.0 | .1575 | 1.2 | .0472 | DDL-415 | 5.0 | 0.4 | DDLF-415 | 2.26 | 3.25 | 0.05 | .002 | 125 | 38 |
| 2.0 | .0787 | 5.0 | .1969 | 1.5 | .0591 | DDL-520 | 6.1 | 0.5 | DDLF-520 | 2.90 | 4.00 | 0.08 | .003 | 187 | 59 |
| 2.5 | .0984 | 6.0 | .2362 | 1.8 | .0709 | DDL-625 | 7.1 | 0.5 | DDLF-625 | 3.80 | 4.93 | 0.08 | .003 | 206 | 73 |
| 3.0 | .1181 | 6.0 | .2362 | 2.0 | .0787 | DDL-630 | 7.2 | 0.6 | DDLF-630 | 3.80 | 4.93 | 0.08 | .003 | 206 | 73 |
| 3.0 | .1181 | 7.0 | .2756 | 2.0 | .0787 | DDL-730 | 8.1 | 0.5 | DDLF-730 | 4.10 | 5.83 | 0.10 | .004 | 384 | 129 |
| 4.0 | .1575 | 7.0 | .2756 | 2.0 | .0787 | DDL-740 | 8.2 | 0.6 | DDLF-740 | 4.80 | 5.93 | 0.08 | .003 | 252 | 106 |
| 4.0 | .1575 | 8.0 | .3150 | 2.0 | .0787 | DDL-840 | 9.2 | 0.6 | DDLF-840 | 5.20 | 6.93 | 0.10 | .004 | 391 | 140 |
| 4.0 | .1575 | 9.0 | .3543 | 2.5 | .0984 | DDL-940 | 10.3 | 0.6 | DDLF-940 | 5.20 | 7.48 | 0.10 | .004 | 641 | 226 |
| 4.0 | .1575 | 10.0 | .3937 | 3.0 | .1181 | DDL-1040 | 11.2 | 0.6 | DDLF-1040 | 5.80 | 7.96 | 0.15 | .006 | 708 | 266 |
| 5.0 | .1969 | 8.0 | .3150 | 2.0 | .0787 | DDL-850 | 9.2 | 0.6 | DDLF-850 | 5.80 | 6.95 | 0.08 | .003 | 274 | 130 |
| 5.0 | .1969 | 9.0 | .3543 | 2.5 | .0984 | DDL-950 | 10.2 | 0.6 | DDLF-950 | 6.00 | 7.73 | 0.10 | .004 | 495 | 207 |
| 5.0 | .1969 | 10.0 | .3937 | 3.0 | .1181 | DDL-1050 | 11.2 | 0.6 | DDLF-1050 | 6.40 | 8.63 | 0.10 | .006 | 714 | 276 |
| 5.0 | .1969 | 11.0 | .4331 | 3.0 | .1181 | DDL-1150 | 12.5 | 0.8 | DDLF-1150 | 6.40 | 8.63 | 0.15 | .006 | 714 | 276 |
| 6.0 | .2362 | 10.0 | .3937 | 2.5 | .0984 | DDL-1060 | 11.2 | 0.6 | DDLF-1060 | 6.95 | 8.73 | 0.10 | .004 | 457 | 194 |
| 6.0 | .2362 | 12.0 | .4724 | 3.0 | .1181 | DDL-1260 | 13.2 | 0.6 | DDLF-1260 | 7.70 | 9.94 | 0.15 | .006 | 831 | 363 |
| 6.0 | .2362 | 13.0 | .5118 | 3.5 | .1378 | DDL-1360 | 15.0 | 1.0 | DDLF-1360 | 8.00 | 10.98 | 0.15 | .006 | 1083 | 438 |
| 7.0 | .2756 | 11.0 | .4331 | 2.5 | .0984 | DDL-1170 | 12.2 | 0.6 | DDLF-1170 | 8.10 | 9.83 | 0.10 | .004 | 449 | 199 |
| 7.0 | .2756 | 13.0 | .5118 | 3.0 | .1181 | DDL-1370 | 14.2 | 0.6 | DDLF-1370 | 8.90 | 11.13 | 0.15 | .006 | 880 | 414 |
| 7.0 | .2756 | 14.0 | .5512 | 3.5 | .1378 | DDL-1470 | 16.0 | 1.0 | DDLF-1470 | 9.00 | 12.03 | 0.15 | .006 | 1175 | 511 |
| 8.0 | .3150 | 12.0 | .4724 | 2.5 | .0984 | DDL-1280 | 13.2 | 0.6 | DDLF-1280 | 9.10 | 10.93 | 0.10 | .004 | 506 | 249 |
| 8.0 | .3150 | 14.0 | .5512 | 3.5 | .1378 | DDL-1480 | 15.6 | 0.8 | DDLF-1480 | 9.90 | 12.13 | 0.15 | .006 | 819 | 386 |
| 8.0 | .3150 | 16.0 | .6299 | 4.0 | .1575 | DDL-1680 | 18.0 | 1.0 | DDLF-1680 | 10.30 | 13.40 | 0.20 | .008 | 1606 | 712 |
| 9.0 | .3543 | 17.0 | .6693 | 4.0 | .1575 | DDL-1790 | 19.0 | 1.0 | DDLF-1790 | 11.20 | 14.84 | 0.20 | .008 | 1724 | 813 |
| 9.0 | .3543 | 20.0 | .7874 | 6.0 | .2362 | DDL-2090 | — | — | — | 12.32 | 16.71 | 0.30 | .012 | 2123 | 985 |
| 10.0 | .3937 | 19.0 | .7480 | 5.0 | .1969 | DDL-1910 | — | — | — | 12.32 | 16.71 | 0.30 | .012 | 2123 | 985 |
| 12.0 | .4724 | 21.0 | .8268 | 5.0 | .1969 | DDL-2212 | — | — | — | 14.40 | 19.22 | 0.30 | .012 | 1917 | 1042 |




NOTES:

1. Basic numbers shown above include code "DD" for NMB developed 400 series Martensitic stainless steel. If chrome steel is desired, delete "DD".
2. ABEC 1, 3, 5 and 7 tolerances apply.
3. r = Maximum shaft or housing fillet radius that bearing corners will clear.

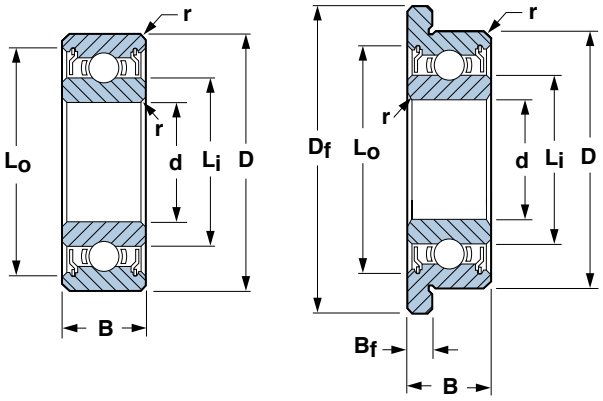
* "DD" is a trademark of NMB.



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# Radial Shielded and Flanged Shielded Bearings

| BORE d | | O.D. D | | WIDTH B | | | FLANGE (MM) | | | REFERENCE DIAMETER (MM) | | FILLET RADIUS r | | LOAD RATINGS N | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MM | INCH | MM | INCH | MM | INCH | *BASIC NUMBER | DIA. $D_f$ | WIDTH $B_f$ | FLANGED *BASIC NUMBER | $L_i$ | $L_o$ | MM | INCH | DYN. $C_r$ | STATIC $C_{or}$ |
| 1.5 | .0591 | 4.0 | .1575 | 2.0 | .0787 | DDL-415 | — | — | — | 2.15 | 3.42 | 0.05 | .002 | 113 | 34 |
| 1.5 | .0591 | 4.0 | .1575 | 2.0 | .0787 | DDL-415 | 5.0 | 0.6 | DDLF-415 | 2.26 | 3.49 | 0.05 | .002 | 125 | 38 |
| 2.0 | .0787 | 5.0 | .1969 | 2.3 | .0906 | DDL-520 | 6.1 | 0.8 | DDLF-520 | 2.90 | 4.28 | 0.08 | .003 | 187 | 59 |
| 2.5 | .0984 | 6.0 | .2362 | 2.6 | .1024 | DDL-625 | 7.1 | 0.6 | DDLF-625 | 3.80 | 5.23 | 0.08 | .003 | 206 | 73 |
| 3.0 | .1181 | 6.0 | .2362 | 2.5 | .0984 | DDL-630 | 7.2 | 0.8 | DDLF-630 | 3.80 | 5.23 | 0.08 | .003 | 206 | 73 |
| 3.0 | .1181 | 7.0 | .2756 | 3.0 | .1181 | DDL-730 | 8.1 | 0.6 | DDLF-730 | 4.10 | 6.13 | 0.10 | .004 | 384 | 129 |
| 4.0 | .1575 | 7.0 | .2756 | 2.5 | .0984 | DDL-740 | 8.2 | 0.6 | DDLF-740 | 4.80 | 6.33 | 0.08 | .003 | 252 | 106 |
| 4.0 | .1575 | 8.0 | .3150 | 3.0 | .1181 | DDL-840 | 9.2 | 1.0 | DDLF-840 | 5.20 | 7.24 | 0.10 | .004 | 391 | 140 |
| 4.0 | .1575 | 9.0 | .3543 | 4.0 | .1575 | DDL-940 | 10.3 | 0.8 | DDLF-940 | 5.20 | 7.93 | 0.10 | .004 | 641 | 226 |
| 4.0 | .1575 | 10.0 | .3937 | 4.0 | .1575 | DDL-1040 | 11.6 | 0.6 | DDLF-1040 | 5.46 | 8.50 | 0.15 | .006 | 708 | 266 |
| 5.0 | .1969 | 8.0 | .3150 | 2.5 | .0984 | DDL-850 | 9.2 | 0.6 | DDLF-850 | 5.80 | 7.26 | 0.08 | .003 | 274 | 130 |
| 5.0 | .1969 | 9.0 | .3543 | 3.0 | .1181 | DDL-950 | 10.2 | 0.8 | DDLF-950 | 6.00 | 8.04 | 0.10 | .004 | 495 | 207 |
| 5.0 | .1969 | 10.0 | .3937 | 4.0 | .1575 | DDL-1050 | 11.6 | 1.0 | DDLF-1050 | 6.40 | 8.94 | 0.10 | .006 | 714 | 276 |
| 5.0 | .1969 | 11.0 | .4331 | 5.0 | .1969 | DDL-1150 | 12.5 | 0.6 | DDLF-1150 | 6.40 | 9.54 | 0.15 | .006 | 714 | 276 |
| 6.0 | .2362 | 10.0 | .3937 | 3.0 | .1181 | DDL-1060 | 11.2 | 0.8 | DDLF-1060 | 6.95 | 9.04 | 0.10 | .004 | 457 | 194 |
| 6.0 | .2362 | 12.0 | .4724 | 4.0 | .1575 | DDL-1260 | 13.6 | 1.1 | DDLF-1260 | 7.70 | 10.48 | 0.15 | .006 | 831 | 363 |
| 6.0 | .2362 | 13.0 | .5118 | 5.0 | .1969 | DDL-1360 | 15.0 | 0.6 | DDLF-1360 | 7.33 | 11.44 | 0.15 | .006 | 1083 | 438 |
| 7.0 | .2756 | 11.0 | .4331 | 3.0 | .1181 | DDL-1170 | 12.2 | 0.8 | DDLF-1170 | 8.10 | 10.14 | 0.10 | .004 | 449 | 199 |
| 7.0 | .2756 | 13.0 | .5118 | 4.0 | .1575 | DDL-1370 | 14.6 | 1.1 | DDLF-1370 | 8.43 | 11.54 | 0.15 | .006 | 880 | 414 |
| 7.0 | .2756 | 14.0 | .5512 | 5.0 | .1969 | DDL-1470 | 16.0 | 0.8 | DDLF-1470 | 9.00 | 12.45 | 0.15 | .006 | 1175 | 511 |
| 8.0 | .3150 | 12.0 | .4724 | 3.5 | .1378 | DDL-1280 | 13.6 | 0.8 | DDLF-1280 | 9.10 | 11.24 | 0.10 | .004 | 506 | 249 |
| 8.0 | .3150 | 14.0 | .5512 | 4.0 | .1575 | DDL-1480 | 15.6 | 1.1 | DDLF-1480 | 9.90 | 12.55 | 0.15 | .006 | 819 | 386 |
| 8.0 | .3150 | 16.0 | .6299 | 5.0 | .1969 | DDL-1680 | 18.0 | 1.1 | DDLF-1680 | 9.68 | 14.18 | 0.20 | .008 | 1606 | 712 |
| 9.0 | .3543 | 17.0 | .6693 | 5.0 | .1969 | DDL-1790 | 19.0 | — | DDLF-1790 | 11.20 | 15.34 | 0.20 | .008 | 1724 | 813 |
| 9.0 | .3543 | 20.0 | .7874 | 6.0 | .2362 | DDL-2090 | — | — | — | 12.32 | 17.44 | 0.30 | .012 | 2123 | 985 |
| 10.0 | .3937 | 19.0 | .7480 | 7.0 | .2756 | DDL-1910 | — | — | — | 12.32 | 17.44 | 0.30 | .012 | 2123 | 985 |
| 12.0 | .4724 | 21.0 | .8268 | 5.0 | .1969 | DDL-2112 | — | — | — | 14.40 | 19.22 | 0.30 | .012 | 1917 | 1042 |




NOTES:

1. Basic numbers shown above include code "DD" for NMB developed 400 series Martensitic stainless steel. If chrome steel is desired, delete "DD".
2. ABEC 1, 3, 5 and 7 tolerances apply.
3. r = Maximum shaft or housing fillet radius that bearing corners will clear.

* "DD" is a trademark of NMB.



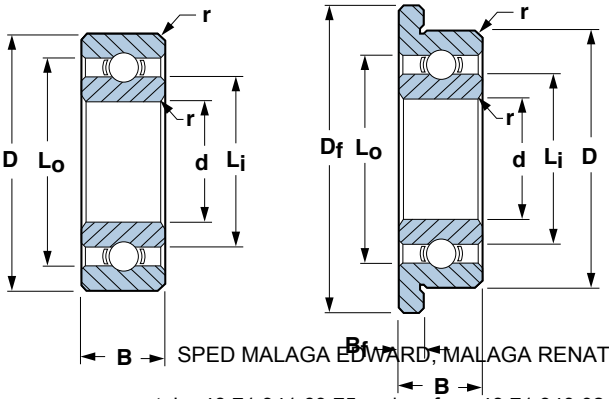
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# Radial Open and Flanged Open Bearings



| BORE d | | O.D. D | | WIDTH B | | *BASIC NUMBER | FLANGE (MM) | | FLANGED *BASIC NUMBER | REFERENCE DIAMETER (MM) | | FILLET RADIUS r | | LOAD RATINGS N | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MM | INCH | MM | INCH | MM | INCH | | DIA. $D_f$ | WIDTH $B_f$ | | $L_i$ | $L_o$ | MM | INCH | DYN. $C_r$ | STATIC $C_{or}$ |
| 1.0 | .0394 | 4.0 | .1575 | 1.6 | .0630 | DDR-410 | — | — | — | 2.05 | 3.16 | 0.10 | .004 | 158 | 44 |
| 1.2 | .0472 | 4.0 | .1575 | 1.8 | .0709 | DDR-412 | — | — | — | 2.05 | 3.16 | 0.10 | .004 | 158 | 44 |
| 1.5 | .0591 | 5.0 | .1969 | 2.0 | .0787 | DDR-515 | 6.5 | 0.6 | DDRF-515 | 2.60 | 3.73 | 0.15 | .006 | 184 | 57 |
| 1.5 | .0591 | 6.0 | .2362 | 2.5 | .0984 | DDR-615 | 7.5 | 0.6 | DDRF-615 | 2.90 | 4.73 | 0.15 | .006 | 324 | 97 |
| 2.0 | .0787 | 6.0 | .2362 | 2.3 | .0906 | DDR-620 | — | — | — | 3.16 | 4.78 | 0.15 | .006 | 279 | 89 |
| 2.0 | .0787 | 6.0 | .2362 | 2.3 | .0906 | — | 7.5 | 0.6 | DDRF-620 | 3.16 | 4.75 | 0.15 | .006 | 330 | 99 |
| 2.0 | .0787 | 7.0 | .2756 | 2.8 | .1102 | DDR-720 | 8.5 | 0.7 | DDRF-720 | 3.80 | 5.52 | 0.15 | .006 | 330 | 99 |
| 2.5 | .0984 | 7.0 | .2756 | 2.5 | .0984 | DDR-725 | 8.5 | 0.7 | DDRF-725 | 3.80 | 5.52 | 0.15 | .006 | 380 | 126 |
| 2.5 | .0984 | 8.0 | .3150 | 2.8 | .1102 | DDR-825 | 9.5 | 0.7 | DDRF-825 | 4.10 | 6.53 | 0.15 | .006 | 553 | 176 |
| 3.0 | .1181 | 8.0 | .3150 | 3.0 | .1181 | DDR-830 | 9.5 | 0.7 | DDRF-830 | 4.10 | 6.53 | 0.15 | .006 | 553 | 176 |
| 3.0 | .1181 | 9.0 | .3543 | 3.0 | .1181 | DDR-930 | 10.5 | 0.7 | DDRF-930 | 4.80 | 7.23 | 0.15 | .006 | 634 | 219 |
| 3.0 | .1181 | 10.0 | .3937 | 4.0 | .1575 | DDR-1030 | 11.5 | 1.0 | DDRF-1030 | 5.08 | 8.20 | 0.15 | .006 | 641 | 226 |
| 4.0 | .1575 | 11.0 | .4331 | 4.0 | .1575 | DDR-1140 | 12.5 | 1.0 | DDRF-1140 | 6.40 | 9.54 | 0.15 | .006 | 714 | 276 |
| 4.0 | .1575 | 12.0 | .4724 | 4.0 | .1575 | DDR-1240 | 13.5 | 1.0 | DDRF-1240 | 5.62 | 9.99 | 0.20 | .008 | 959 | 347 |
| 4.0 | .1575 | 13.0 | .5118 | 5.0 | .1969 | DDR-1340 | — | — | — | 5.97 | 11.22 | 0.20 | .008 | 1306 | 487 |
| 4.0 | .1575 | 13.0 | .5118 | 5.0 | .1969 | — | 15.0 | 1.0 | DDRF-1340 | 7.00 | 11.04 | 0.20 | .008 | 1306 | 487 |
| 4.0 | .1575 | 16.0 | .6299 | 5.0 | .1969 | DDR-1640 | 18.0 | 1.0 | DDRF-1640 | 7.80 | 13.41 | 0.30 | .012 | 1735 | 671 |
| 5.0 | .1969 | 13.0 | .5118 | 4.0 | .1575 | DDR-1350 | 15.0 | 1.0 | DDRF-1350 | 6.66 | 11.14 | 0.20 | .008 | 1074 | 422 |
| 5.0 | .1969 | 14.0 | .5512 | 5.0 | .1969 | DDR-1450 | 16.0 | 1.0 | DDRF-1450 | 6.88 | 12.14 | 0.20 | .008 | 1329 | 508 |
| 5.0 | .1969 | 16.0 | .6299 | 5.0 | .1969 | DDR-1650 | — | — | — | 7.80 | 12.50 | 0.30 | .012 | 1735 | 671 |
| 5.0 | .1969 | 16.0 | .6299 | 5.0 | .1969 | — | 18.0 | 1.0 | DDRF-1650 | 7.80 | 13.41 | 0.30 | .012 | 1735 | 671 |
| 5.0 | .1969 | 19.0 | .7480 | 6.0 | .2362 | DDR-1950 | — | — | — | 8.67 | 15.63 | 0.30 | .012 | 2805 | 1060 |
| 5.0 | .1969 | 19.0 | .7480 | 6.0 | .2362 | DDR-1950 | 22.0 | 1.5 | DDRF-1950 | 8.67 | 15.60 | 0.30 | .012 | 2805 | 1060 |
| 6.0 | .2362 | 15.0 | .5906 | 5.0 | .1969 | DDR-1560 | 17.0 | 1.2 | DDRF-1560 | 7.80 | 13.20 | 0.20 | .008 | 1735 | 671 |
| 6.0 | .2362 | 16.0 | .6299 | 5.0 | .1969 | DDR-1660 | — | — | — | 7.80 | 13.41 | 0.30 | .012 | 1735 | 671 |
| 6.0 | .2362 | 17.0 | .6693 | 6.0 | .2362 | DDR-1760 | 19.0 | 1.2 | DDRF-1760 | 8.22 | 14.70 | 0.30 | .012 | 2265 | 839 |
| 6.0 | .2362 | 19.0 | .7480 | 6.0 | .2362 | DDR-1960 | — | — | — | 8.67 | 15.63 | 0.30 | .012 | 2805 | 1060 |
| 6.0 | .2362 | 19.0 | .7480 | 6.0 | .2362 | — | 22.0 | 1.5 | DDRF-1960 | 8.67 | 15.63 | 0.30 | .012 | 2805 | 1060 |
| 7.0 | .2756 | 19.0 | .7480 | 6.0 | .2362 | DDR-1970 | — | — | — | 9.55 | 16.24 | 0.30 | .012 | 2240 | 912 |
| 7.0 | .2756 | 22.0 | .8661 | 7.0 | .2756 | DDR-2270 | 25.0 | 1.5 | DDRF-2270 | 10.80 | 19.07 | 0.30 | .012 | 3297 | 1368 |
| 8.0 | .3150 | 19.0 | .7480 | 6.0 | .2362 | DDR-1980 | — | — | — | 10.60 | 16.68 | 0.30 | .012 | 2463 | 1059 |
| 8.0 | .3150 | 19.0 | .7480 | 6.0 | .2362 | — | 22.0 | 1.5 | DDRF-1980 | 9.55 | 16.24 | 0.30 | .012 | 2240 | 912 |
| 8.0 | .3150 | 22.0 | .8661 | 7.0 | .2756 | DDR-2280 | — | — | — | 10.80 | 19.07 | 0.30 | .012 | 3297 | 1368 |
| 8.0 | .3150 | 22.0 | .8661 | 7.0 | .2756 | — | 25.0 | 1.5 | DDRF-2280 | 10.76 | 18.89 | 0.30 | .012 | 3297 | 1368 |
| 10.0 | .3937 | 22.0 | .8661 | 6.0 | .2362 | DDR-2210 | — | — | — | 13.40 | 19.40 | 0.30 | .012 | 2697 | 1273 |
| 12.0 | .4724 | 24.0 | .9449 | 6.0 | .2362 | DDR-2412 | — | — | — | 14.28 | 21.69 | 0.30 | .012 | 3082 | 1433 |




NOTES:

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3. r = Maximum shaft or housing fillet radius that bearing corners will clear.

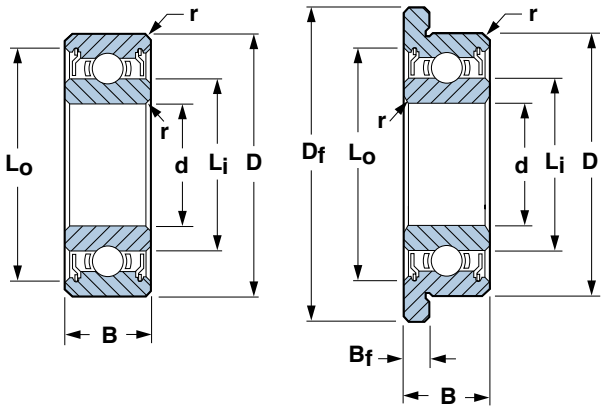
* "DD" is a trademark of NMB.



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# Radial Shielded and Flanged Shielded Bearings

| BORE d | | O.D. D | | WIDTH B | | | FLANGE (MM) | | | REFERENCE DIAMETER (MM) | | FILLET RADIUS r | | LOAD RATINGS N | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MM | INCH | MM | INCH | MM | INCH | *BASIC NUMBER | DIA. $D_f$ | WIDTH $B_f$ | FLANGED *BASIC NUMBER | $L_i$ | $L_o$ | MM | INCH | DYN. $C_r$ | STATIC $C_{or}$ |
| 1.5 | .0591 | 5.0 | .1969 | 2.0 | .0787 | DDR-515 | 6.5 | 0.6 | DDRF-515 | 2.60 | 3.73 | 0.15 | .006 | 184 | 57 |
| 1.5 | .0591 | 6.0 | .2362 | 2.5 | .0984 | DDR-615 | 7.5 | 0.6 | DDRF-615 | 2.90 | 4.73 | 0.15 | .006 | 324 | 97 |
| 2.0 | .0787 | 6.0 | .2362 | 2.3 | .0906 | DDR-620 | 7.5 | 0.6 | DDRF-620 | 3.16 | 4.78 | 0.15 | .006 | 279 | 89 |
| 2.0 | .0787 | 7.0 | .2756 | 2.8 | .1102 | DDR-720 | 8.5 | 0.7 | DDRF-720 | 3.80 | 5.52 | 0.15 | .006 | 380 | 126 |
| 2.5 | .0984 | 7.0 | .2756 | 2.5 | .0984 | DDR-725 | 8.5 | 0.7 | DDRF-725 | 3.80 | 5.52 | 0.15 | .006 | 380 | 126 |
| 2.5 | .0984 | 8.0 | .3150 | 2.8 | .1102 | DDR-825 | 9.5 | 0.7 | DDRF-825 | 4.10 | 6.53 | 0.15 | .006 | 553 | 176 |
| 3.0 | .1181 | 8.0 | .3150 | 3.0 | .1181 | DDR-830 | 9.5 | 0.7 | DDRF-830 | 4.10 | 6.53 | 0.15 | .006 | 553 | 176 |
| 3.0 | .1181 | 9.0 | .3543 | 3.0 | .1181 | DDR-930 | 10.5 | 0.7 | DDRF-930 | 4.80 | 7.23 | 0.15 | .006 | 634 | 219 |
| 3.0 | .1181 | 10.0 | .3937 | 4.0 | .1575 | DDR-1030 | 11.5 | 1.0 | DDRF-1030 | 5.08 | 8.20 | 0.15 | .006 | 641 | 226 |
| 4.0 | .1575 | 11.0 | .4331 | 4.0 | .1575 | DDR-1140 | 12.5 | 1.0 | DDRF-1140 | 6.40 | 9.54 | 0.15 | .006 | 714 | 276 |
| 4.0 | .1575 | 12.0 | .4724 | 4.0 | .1575 | DDR-1240 | 13.5 | 1.0 | DDRF-1240 | 5.62 | 9.99 | 0.20 | .008 | 959 | 347 |
| 4.0 | .1575 | 13.0 | .5118 | 5.0 | .1969 | DDR-1340 | — | — | — | 5.97 | 11.22 | 0.20 | .008 | 1306 | 487 |
| 4.0 | .1575 | 13.0 | .5118 | 5.0 | .1969 | — | 15.0 | 1.0 | DDRF-1340 | 7.00 | 11.04 | 0.20 | .008 | 1306 | 487 |
| 4.0 | .1575 | 16.0 | .6299 | 5.0 | .1969 | DDR-1640 | — | — | — | 7.80 | 13.41 | 0.30 | .012 | 1735 | 671 |
| 4.0 | .1575 | 16.0 | .6299 | 5.0 | .1969 | — | 18.0 | 1.0 | DDRF-1640 | 7.80 | 13.20 | 0.30 | .012 | 1735 | 671 |
| 5.0 | .1969 | 13.0 | .5188 | 4.0 | .1575 | DDR-1350 | 15.0 | 1.0 | DDRF-1350 | 6.60 | 11.14 | 0.20 | .008 | 1074 | 422 |
| 5.0 | .1969 | 14.0 | .5512 | 5.0 | .1969 | DDR-1450 | 16.0 | 1.0 | DDRF-1450 | 6.88 | 12.14 | 0.20 | .008 | 1329 | 508 |
| 5.0 | .1969 | 16.0 | .6299 | 5.0 | .1969 | DDR-1650 | 18.0 | 1.0 | DDRF-1650 | 7.80 | 12.50 | 0.30 | .012 | 1735 | 671 |
| 5.0 | .1969 | 19.0 | .7480 | 6.0 | .2362 | DDR-1950 | 22.0 | 1.5 | DDRF-1950 | 8.67 | 15.63 | 0.30 | .012 | 2085 | 1060 |
| 6.0 | .2362 | 15.0 | .5906 | 5.0 | .1969 | DDR-1560 | 17.0 | 1.2 | DDRF-1560 | 7.80 | 13.20 | 0.20 | .008 | 1735 | 671 |
| 6.0 | .2362 | 16.0 | .6299 | 5.0 | .1969 | DDR-1660 | — | — | — | 7.80 | 13.41 | 0.30 | .012 | 1735 | 671 |
| 6.0 | .2362 | 17.0 | .6693 | 6.0 | .2362 | DDR-1760 | 19.0 | 1.2 | DDRF-1760 | 8.22 | 14.70 | 0.30 | .012 | 2265 | 839 |
| 6.0 | .2362 | 19.0 | .7480 | 6.0 | .2362 | DDR-1960 | 22.0 | 1.5 | DDRF-1960 | 8.67 | 15.63 | 0.30 | .012 | 2805 | 1060 |
| 7.0 | .2756 | 19.0 | .7480 | 6.0 | .2362 | DDR-1970 | — | — | — | 9.55 | 16.24 | 0.30 | .012 | 2240 | 912 |
| 7.0 | .2756 | 22.0 | .8661 | 7.0 | .2756 | DDR-2270 | 25.0 | 1.5 | DDRF-2270 | 10.80 | 19.07 | 0.30 | .012 | 3297 | 1368 |
| 8.0 | .3150 | 19.0 | .7480 | 6.0 | .2362 | DDR-1980 | — | — | — | 10.60 | 16.68 | 0.30 | .012 | 2463 | 1059 |
| 8.0 | .3150 | 19.0 | .7480 | 6.0 | .2362 | — | 22.0 | 1.5 | DDRF-1980 | 9.55 | 16.24 | 0.30 | .012 | 2240 | 912 |
| 8.0 | .3150 | 22.0 | .8661 | 7.0 | .2756 | DDR-2280 | 25.0 | 1.5 | DDRF-2280 | 10.80 | 19.07 | 0.30 | .012 | 3297 | 1368 |
| 10.0 | .3937 | 22.0 | .8661 | 6.0 | .2362 | DDR-2210 | — | — | — | 13.40 | 19.40 | 0.30 | .012 | 2697 | 1273 |
| 10.0 | .3937 | 22.0 | .8661 | 6.0 | .2362 | — | 25.0 | 1.5 | DDRF-2210 | 12.40 | 19.08 | 0.30 | .012 | 2697 | 1273 |
| 12.0 | .4724 | 24.0 | .9449 | 6.0 | .2362 | DDR-2412 | — | — | — | 14.28 | 21.69 | 0.30 | .012 | 3082 | 1433 |




NOTES:

1. Basic numbers shown above include code "DD" for NMB developed 400 series Martensitic stainless steel. If chrome steel is desired, delete "DD".
2. ABEC 1, 3, 5 and 7 tolerances apply.
3. r = Maximum shaft or housing fillet radius that bearing corners will clear.

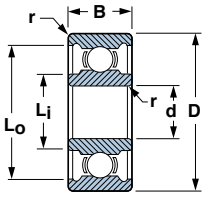
* "DD" is a trademark of NMB.

# Radial Open and Shielded Bearings



| BORE d | | O.D. D | | WIDTH B | | BASIC NUMBER | REFERENCE DIAMETER (MM) | | FILLET RADIUS r | | LOAD RATINGS N | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MM | INCH | MM | INCH | MM | INCH | | $L_o$ | $L_i$ | MM | INCH | DYN. $C_r$ | STATIC $C_{or}$ |
| 5 | .1969 | 19 | .7480 | 6 | .2362 | 635 | 16.68 | 9.20 | 0.3 | .012 | 2614 | 1053 |
| 6 | .2362 | 19 | .7480 | 6 | .2362 | 626 | 16.68 | 9.20 | 0.3 | .012 | 2614 | 1053 |
| 7 | .2756 | 19 | .7480 | 6 | .2362 | 607 | 16.68 | 9.20 | 0.3 | .012 | 2614 | 1053 |
| 7 | .2756 | 22 | .8661 | 7 | .2756 | 627 | 19.10 | 10.80 | 0.3 | .012 | 3297 | 1368 |
| 8 | .3150 | 22 | .8661 | 7 | .2756 | 608 | 19.10 | 10.80 | 0.3 | .012 | 3297 | 1368 |
| 9 | .3543 | 24 | 0.9449 | 7 | .2756 | *609 | 19.10 | 12.40 | 0.3 | .012 | 3297 | 1368 |
| 9 | .3543 | 26 | 1.0236 | 8 | .3150 | *629 | 22.80 | 12.88 | 0.3 | .012 | 4578 | 1970 |
| 10 | .3937 | 26 | 1.0236 | 8 | .3150 | *6000 | 22.80 | 13.75 | 0.3 | .012 | 4578 | 1970 |

* Note: Limited Availability

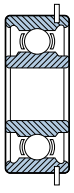



OPEN BEARING

OPEN BEARING



METAL SHIELD



EXTERNAL RETAINING RING NR TYPE

NOTES:

1. Dimensions in millimeters unless otherwise noted.
2. All bearings in this series are made of chrome alloy steel.
3. r = Maximum shaft or housing fillet radius that bearing corners will clear.



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