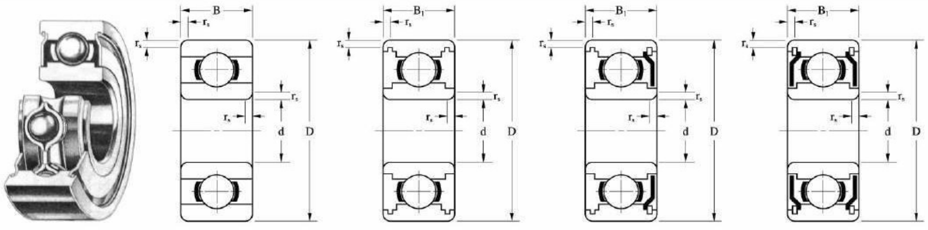
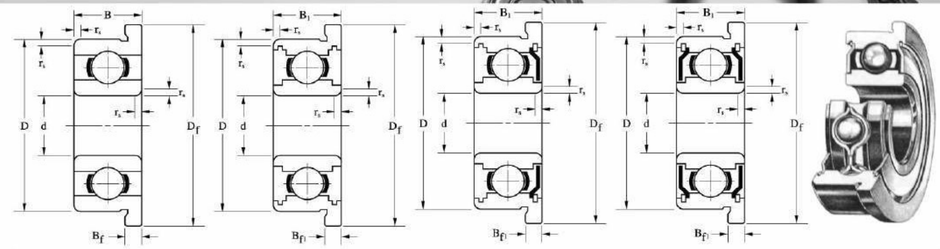
# Metric series（0.6≦d≦4mm）

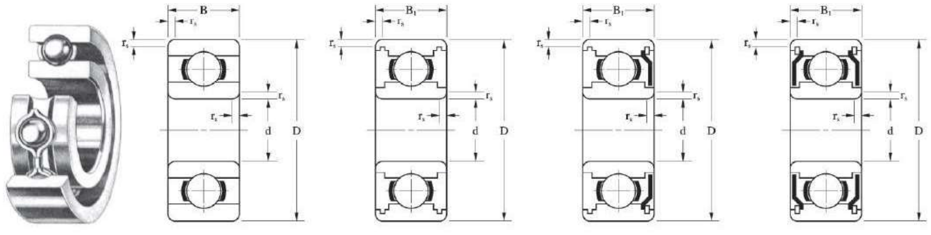


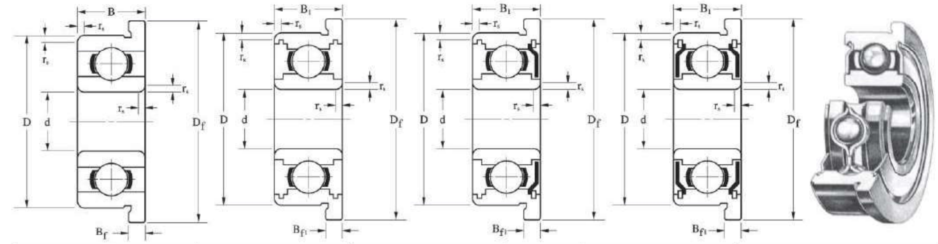


| Bore Diameter: d (mm) | Bore Diameter: d (inch) | Outer Diameter: D (mm) | Outer Diameter: D (inch) | Flange Diameter: Df (mm) | Flange Diameter: Df (inch) | Chamfer rs(min) (mm) | Chamfer rs(min) (inch) | Open Bearings Width: B (mm) | Open Bearings Width: B (inch) | Open Bearings Flange Width: Bf (mm) | Open Bearings Flange Width: Bf (inch) | Bearing Reference: Open | Bearing Reference: Flange Open | Bearing Reference: 2Shields | Bearing Reference: Flange 2Shields | 2Seals: 2RS | 2Seals: 2RU | 2Seals: TTS | Seal, Shield Bearings Width: B1 (mm) | Seal, Shield Bearings Width: B1 (inch) | Flange Width: Bf1 (mm) | Flange Width: Bf1 (inch) | Load Rating Cr(N) | Load Rating Cor(N) | Max. Speed Grease (x1000min⁻¹) | Max. Speed Oil (x1000min⁻¹) | Cage Type | Ball Complement Qty.:Z (pcs.) | Ball Complement Size:Dw (mm) | Ball Complement Size:Dw (inch) | Weight (Reference) Open (g) | Weight Flange Open (g) | Weight 2Shields (g) | Weight Flange 2Shields (g) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.6 | 0.0236 | 2.5 | 0.0984 | – | – | 0.05 | 0.0020 | 1.0 | 0.0394 | – | – | 68/0.6 | – | – | – | – | – | – | – | – | – | – | 59 | 14 | 128 | 152 | W | 5 | 0.500 | 0.0197 | 0.02 | – | – | – |
| 1.0 | 0.0394 | 3.0 | 0.1181 | 3.8 | 0.1496 | 0.05 | 0.0020 | 1.0 | 0.0394 | 0.3 | 0.0118 | 681 | F681 | – | – | – | – | – | – | – | – | – | 96 | 25 | 117 | 139 | W | 6 | 0.600 | 0.0236 | 0.03 | 0.04 | – | – |
| | | 3.0 | 0.1181 | – | – | 0.05 | 0.0020 | 1.5 | 0.0591 | – | – | MR31 | – | – | – | – | – | – | – | – | – | – | 96 | 25 | 117 | 139 | W | 6 | 0.600 | 0.0236 | 0.04 | – | – | – |
| | | 4.0 | 0.1575 | 5.0 | 0.1969 | 0.10 | 0.0039 | 1.6 | 0.0630 | 0.5 | 0.0197 | 691 | F691 | – | – | – | – | – | – | – | – | – | 141 | 37 | 105 | 124 | W | 5 | 0.800 | 0.0315 | 0.09 | 0.12 | – | – |
| 1.2 | 0.0472 | 4.0 | 0.1575 | 4.8 | 0.1890 | 0.10 | 0.0039 | 1.8 | 0.0709 | 0.4 | 0.0157 | MR41X | MF41X | MR41XZZ | – | – | – | – | 2.5 | 0.0984 | – | – | 112 | 33 | 105 | 124 | W | 7 | 0.600 | 0.0236 | 0.11 | 0.12 | 0.14 | – |
| 1.5 | 0.0591 | 4.0 | 0.1575 | 5.0 | 0.1969 | 0.05 | 0.0020 | 1.2 | 0.0472 | 0.4 | 0.0157 | 681X | F681X | 681XZZ | F681XZZ | – | – | – | 2.0 | 0.0787 | 0.6 | 0.0236 | 112 | 33 | 105 | 124 | W | 7 | 0.600 | 0.0236 | 0.07 | 0.09 | 0.10 | 0.13 |
| | | 5.0 | 0.1969 | 6.5 | 0.2559 | 0.15 | 0.0059 | 2.0 | 0.0787 | 0.6 | 0.0236 | 691X | F691X | 691XZZ | F691XZZ | – | – | – | 2.6 | 0.1024 | 0.8 | 0.0315 | 238 | 69 | 94 | 111 | W | 6 | 1.000 | 0.0394 | 0.18 | 0.24 | 0.23 | 0.30 |
| | | 6.0 | 0.2362 | 7.5 | 0.2953 | 0.15 | 0.0059 | 2.5 | 0.0984 | – | – | 601X | – | 601XZZ | F601XZZ | – | – | – | 3.0 | 0.1181 | 0.8 | 0.0315 | 330 | 99 | 86 | 101 | W | 6 | 1.200 | 0.0472 | 0.32 | – | 0.38 | 0.46 |
| 2.0 | 0.0787 | 4.0 | 0.1575 | – | – | 0.05 | 0.0020 | 1.2 | 0.0472 | – | – | 672 | – | 672ZZ | – | – | – | – | 2.0 | 0.0787 | – | – | 124 | 40 | 98 | 116 | W | 8 | 0.600 | 0.0236 | 0.05 | – | 0.08 | – |
| | | 5.0 | 0.1969 | 6.1 | 0.2402 | 0.08 | 0.0031 | 1.5 | 0.0591 | 0.5 | 0.0197 | 682 | F682 | 682ZZ | F682ZZ | – | – | – | 2.3 | 0.0906 | 0.6 | 0.0236 | 169 | 50 | 94 | 111 | W | 6 | 0.800 | 0.0315 | 0.13 | 0.16 | 0.18 | 0.22 |
| | | 5.0 | 0.1969 | 6.2 | 0.2441 | 0.10 | 0.0039 | 2.0 | 0.0787 | 0.6 | 0.0236 | MR52 | MF52 | MR52ZZ | MF52ZZ | – | – | – | 2.5 | 0.0984 | 0.6 | 0.0236 | 169 | 50 | 94 | 111 | W | 6 | 0.800 | 0.0315 | 0.17 | 0.21 | 0.19 | 0.24 |
| | | 6.0 | 0.2362 | 7.5 | 0.2953 | 0.15 | 0.0059 | 2.3 | 0.0906 | 0.6 | 0.0236 | 692 | F692 | 692ZZ | F692ZZ | – | – | TTS | 3.0 | 0.1181 | 0.8 | 0.0315 | 330 | 99 | 86 | 101 | W,J | 6 | 1.200 | 0.0472 | 0.28 | 0.35 | 0.34 | 0.43 |
| | | 6.0 | 0.2362 | 7.2 | 0.2835 | 0.15 | 0.0059 | 2.5 | 0.0984 | 0.6 | 0.0236 | MR62 | MF62 | MR62ZZ | MF62ZZ | – | – | – | 2.5 | 0.0984 | 0.6 | 0.0236 | 330 | 99 | 86 | 101 | W,J | 6 | 1.200 | 0.0472 | 0.30 | 0.35 | 0.29 | 0.42 |
| | | 7.0 | 0.2756 | 8.2 | 0.3228 | 0.15 | 0.0059 | 2.5 | 0.0984 | – | – | MR72 | – | MR72ZZS | MF72ZZS | – | – | TTS | 3.0 | 0.1181 | 0.6 | 0.0236 | 386 | 128 | 76 | 90 | W | 7 | 1.200 | 0.0472 | 0.46 | – | 0.51 | 0.58 |
| | | 7.0 | 0.2756 | 8.5 | 0.3346 | 0.15 | 0.0059 | 2.8 | 0.1102 | – | – | 602 | – | 602ZZS | F602ZZS | – | – | TTS | 3.5 | 0.1378 | 0.9 | 0.0354 | 386 | 128 | 76 | 90 | W | 7 | 1.200 | 0.0472 | 0.50 | – | 0.60 | 0.71 |
| 2.5 | 0.0984 | 6.0 | 0.2362 | 7.1 | 0.2795 | 0.08 | 0.0031 | 1.8 | 0.0709 | 0.5 | 0.0197 | 682X | F682X | 682XZZ | F682XZZ | – | – | – | 2.6 | 0.1024 | 0.8 | 0.0315 | 209 | 73 | 81 | 96 | W | 8 | 0.800 | 0.0315 | 0.22 | 0.26 | 0.31 | 0.37 |
| | | 7.0 | 0.2756 | 8.5 | 0.3346 | 0.15 | 0.0059 | 2.5 | 0.0984 | – | – | 692X | – | 692XZZS | F692XZZS | – | – | TTS | 3.5 | 0.1378 | 0.9 | 0.0354 | 386 | 128 | 76 | 90 | W | 7 | 1.200 | 0.0472 | 0.42 | – | 0.56 | 0.68 |
| | | 8.0 | 0.3150 | – | – | 0.20 | 0.0079 | 2.5 | 0.0984 | – | – | MR82X | – | – | – | – | – | – | – | – | – | – | 559 | 179 | 70 | 82 | W | 6 | 1.588 | 0.0625 | 0.52 | – | – | – |
| | | 8.0 | 0.3150 | 9.5 | 0.3740 | 0.15 | 0.0059 | 2.8 | 0.1102 | 0.7 | 0.0276 | 602X | F602X | 602XZZ | F602XZZ | – | – | – | 4.0 | 0.1575 | 0.9 | 0.0354 | 551 | 175 | 72 | 85 | W | 6 | 1.588 | 0.0625 | 0.63 | 0.74 | 0.86 | 0.99 |
| 3.0 | 0.1181 | 6.0 | 0.2362 | 7.2 | 0.2835 | 0.10 | 0.0039 | 2.0 | 0.0787 | 0.6 | 0.0236 | MR63 | MF63 | MR63ZZ | MF63ZZ | – | – | – | 2.5 | 0.0984 | 0.6 | 0.0236 | 209 | 73 | 81 | 96 | W | 8 | 0.800 | 0.0315 | 0.21 | 0.27 | 0.26 | 0.31 |
| | | 7.0 | 0.2756 | 8.1 | 0.3189 | 0.10 | 0.0039 | 2.0 | 0.0787 | 0.5 | 0.0197 | 683 | F683 | 683ZZ | F683ZZ | 2RS | 2RU | – | 3.0 | 0.1181 | 0.8 | 0.0315 | 311 | 112 | 74 | 88 | W | 8 | 1.000 | 0.0394 | 0.33 | 0.37 | 0.44 | 0.52 |
| | | 7.0 | 0.2756 | 8.1 | 0.3189 | 0.10 | 0.0039 | 3.0 | 0.1181 | 0.8 | 0.0315 | – | F683 (1) | – | – | – | – | TTS | 3.0 | 0.1181 | 0.8 | 0.0315 | 255 | 107 | 71 | 83 | W | 11 | 0.800 | 0.0315 | – | 0.55 | – | 0.57 |
| | | 8.0 | 0.3150 | 9.2 | 0.3622 | 0.15 | 0.0059 | 2.5 | 0.0984 | 0.6 | 0.0236 | MR83 | MF83 | MR83ZZ | MF83ZZ | – | – | – | 3.0 | 0.1181 | 0.6 | 0.0236 | 395 | 140 | 67 | 79 | J | 7 | 1.200 | 0.0472 | 0.55 | 0.63 | 0.65 | 0.71 |
| | | 8.0 | 0.3150 | 9.5 | 0.3740 | 0.15 | 0.0059 | 3.0 | 0.1181 | 0.7 | 0.0276 | 693 | F693 | 693ZZ | F693ZZ | 2RS | – | – | 4.0 | 0.1575 | 0.9 | 0.0354 | 559 | 179 | 70 | 82 | W,J,TW | 6 | 1.588 | 0.0625 | 0.60 | 0.71 | 0.78 | 0.91 |
| | | 9.0 | 0.3543 | 10.2 | 0.4016 | 0.20 | 0.0079 | 2.5 | 0.0984 | 0.6 | 0.0236 | MR93 | MF93 | – | – | – | – | – | – | – | – | – | 572 | 188 | 66 | 78 | W | 6 | 1.588 | 0.0625 | 0.71 | 0.79 | – | – |
| | | 9.0 | 0.3543 | 10.6 | 0.4173 | 0.15 | 0.0059 | – | – | – | – | – | – | MR93ZZ | MF93ZZ | – | – | – | 4.0 | 0.1575 | 0.8 | 0.0315 | 572 | 188 | 66 | 78 | W | 6 | 1.588 | 0.0625 | – | – | 1.09 | 1.23 |
| | | 9.0 | 0.3543 | 10.5 | 0.4134 | 0.15 | 0.0059 | 3.0 | 0.1181 | 0.7 | 0.0276 | 603 | F603 | 603ZZ | F603ZZ | – | – | – | 5.0 | 0.1969 | 1.0 | 0.0394 | 572 | 188 | 66 | 78 | W | 6 | 1.588 | 0.0625 | 0.85 | 0.97 | 1.35 | 1.52 |
| | | 10.0 | 0.3937 | 11.5 | 0.4528 | 0.15 | 0.0059 | 4.0 | 0.1575 | 1.0 | 0.0394 | 623 (1) | F623 (1) | 623ZZ | F623ZZ | 2RS | 2RU | TTS | 4.0 | 0.1575 | 1.0 | 0.0394 | 633 | 218 | 66 | 78 | J | 7 | 1.588 | 0.0625 | 1.59 | 1.78 | 1.67 | 1.86 |
| | | 13.0 | 0.5118 | – | – | 0.20 | 0.0079 | 5.0 | 0.1969 | – | – | 633 (1) | – | 633ZZ | – | 2RS | 2RU | – | 5.0 | 0.1969 | – | – | 1 300 | 485 | 51 | 60 | J | 7 | 2.381 | 0.0937 | 2.95 | – | 3.12 | – |
| 4.0 | 0.1575 | 7.0 | 0.2756 | 8.2 | 0.3228 | 0.10 | 0.0039 | 2.0 | 0.0787 | 0.6 | 0.0236 | MR74 | MF74 | – | – | – | – | – | – | – | – | – | 312 | 115 | 70 | 82 | W | 8 | 1.000 | 0.0394 | 0.22 | 0.28 | – | – |
| | | 7.0 | 0.2756 | 8.2 | 0.3228 | 0.10 | 0.0039 | – | – | – | – | – | – | MR74ZZ | MF74ZZ | – | – | – | 2.5 | 0.0984 | 0.6 | 0.0236 | 255 | 107 | 71 | 83 | W | 11 | 0.800 | 0.0315 | – | – | 0.31 | 0.37 |
| | | 8.0 | 0.3150 | 9.2 | 0.3622 | 0.15 | 0.0059 | 2.0 | 0.0787 | 0.6 | 0.0236 | MR84 | MF84 | – | – | – | – | – | – | – | – | – | 395 | 140 | 67 | 79 | J,TW | 7 | 1.200 | 0.0472 | 0.36 | 0.43 | – | – |
| | | 8.0 | 0.3150 | 9.2 | 0.3622 | 0.10 | 0.0039 | – | – | – | – | – | – | MR84ZZ | MF84ZZ | – | – | TTS | 3.0 | 0.1181 | 0.6 | 0.0236 | 395 | 140 | 67 | 79 | J,TW | 7 | 1.200 | 0.0472 | – | – | 0.51 | 0.58 |
| | | 9.0 | 0.3543 | 10.3 | 0.4055 | 0.10 | 0.0039 | 2.5 | 0.0984 | 0.6 | 0.0236 | 684 | F684 | 684ZZ | F684ZZ | 2RS | 2RU | TTS | 4.0 | 0.1575 | 1.0 | 0.0394 | 641 | 226 | 63 | 75 | W,J,TW | 7 | 1.588 | 0.0625 | 0.63 | 0.71 | 0.95 | 1.09 |
| | | 10.0 | 0.3937 | 11.2 | 0.4409 | 0.20 | 0.0079 | 3.0 | 0.1181 | 0.6 | 0.0236 | MR104 | MF104 | – | – | – | – | – | – | – | – | – | 711 | 270 | 59 | 70 | J | 8 | 1.588 | 0.0625 | 1.00 | 1.09 | – | – |
| | | 10.0 | 0.3937 | 11.6 | 0.4567 | 0.20 | 0.0079 | – | – | – | – | – | – | MR104ZZ | MF104ZZ | 2RS | 2RU | – | 4.0 | 0.1575 | 0.8 | 0.0315 | 711 | 270 | 59 | 70 | J | 8 | 1.588 | 0.0625 | – | – | 1.30 | 1.47 |
| | | 11.0 | 0.4331 | 12.5 | 0.4921 | 0.15 | 0.0059 | 4.0 | 0.1575 | 1.0 | 0.0394 | 694 (1) | F694 (1) | 694ZZ | F694ZZ | 2RS | 2RU | – | 4.0 | 0.1575 | 1.0 | 0.0394 | 959 | 347 | 57 | 67 | J | 7 | 2.000 | 0.0787 | 1.49 | 1.69 | 1.61 | 1.81 |
| | | 12.0 | 0.4724 | 13.5 | 0.5315 | 0.20 | 0.0079 | 4.0 | 0.1575 | 1.0 | 0.0394 | 604 (1) | F604 (1) | 604ZZ | F604ZZ | 2RS | 2RU | – | 4.0 | 0.1575 | 1.0 | 0.0394 | 959 | 347 | 57 | 67 | J | 7 | 2.000 | 0.0787 | 2.02 | 2.25 | 2.14 | 2.37 |
| | | 13.0 | 0.5118 | 15.0 | 0.5906 | 0.20 | 0.0079 | 5.0 | 0.1969 | 1.0 | 0.0394 | 624 (1) | F624 (1) | 624ZZ | F624ZZ | 2RS | 2RU | – | 5.0 | 0.1969 | 1.0 | 0.0394 | 1 300 | 485 | 51 | 60 | J | 7 | 2.381 | 0.0937 | 2.71 | 3.05 | 2.89 | 3.22 |
| | | 16.0 | 0.6299 | 18.0 | 0.7087 | 0.30 | 0.0118 | 5.0 | 0.1969 | 1.0 | 0.0394 | 634 (1) | F634 (1) | 634ZZ | F634ZZ | 2RS | 2RU | TTS | 5.0 | 0.1969 | 1.0 | 0.0394 | 1 340 | 517 | 46 | 54 | J | 7 | 2.381 | 0.0937 | 4.86 | 5.29 | 5.20 | 5.63 |

(1) Open type bearings have shield/seal grooves. (2) Single shield or single seal types are also available; suffix Z, RS, RU or TS.
(3) Prefix S or suffix H is added for stainless material types. Load ratings of stainless material types are calculated by Cr×0.85 and Cor×0.80 of SUJ2 material types.
(4) Applicable only for open, single Z, ZZ, single RU and 2RU types in inner ring rotating conditions. Max. speeds for the contact rubber seal(s) types will be around 50-60% of above values.

# Metric series (5≦d≦9mm)





| Bore Diameter: d | | Outer Diameter: D | | Flange Diameter: Df | | Chamfer rs(min) | | Open Bearings: Width: B | | Flange Width: Bf | | Bearing Reference: Open | Flange Open | Seal, Shield Bearings: 2 Shields | Flange 2 Shields | 2 Seals: 2RS | 2RU | TTS | Width: B1 | | Flange Width: Bf1 | | Load Rating: Cr(N) | Cor(N) | Max. Speed: Grease | Oil | Cage Type | Ball Complement: Qty.:Z | Size:Dw | | Weight (Reference): Open | Flange Open | 2 Shields | Flange 2 Shields |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | | | | | | | | mm | inch | mm | inch | (N) | | x1000min⁻¹ | | | pcs. | mm | inch | g | | | |
| 5 | 0.1969 | 8 | 0.3150 | 9.2 | 0.3622 | 0.10 | 0.0039 | 2.0 | 0.0787 | 0.6 | 0.0236 | MR85 | MF85 | – | – | – | – | – | – | – | – | – | 309 | 121 | 62 | 74 | W | 8 | 1.000 | 0.0394 | 0.26 | 0.33 | – | – |
| | | 8 | 0.3150 | 9.2 | 0.3622 | 0.10 | 0.0039 | – | – | – | – | – | – | MR85ZZ | MF85ZZ | – | – | TTS | 2.5 | 0.0984 | 0.6 | 0.0236 | 218 | 91 | 63 | 75 | W | 9 | 0.800 | 0.0315 | – | – | 0.36 | 0.42 |
| | | 9 | 0.3543 | 10.2 | 0.4016 | 0.15 | 0.0059 | 2.5 | 0.0984 | 0.6 | 0.0236 | MR95 | MF95 | MR95ZZ | MF95ZZ | – | – | TTS | 3.0 | 0.1181 | 0.6 | 0.0236 | 432 | 168 | 60 | 71 | W | 8 | 1.200 | 0.0472 | 0.50 | 0.58 | 0.58 | 0.65 |
| | | 10 | 0.3937 | 11.2 | 0.4409 | 0.15 | 0.0059 | 3.0 | 0.1181 | 0.6 | 0.0236 | MR105 | MF105 | – | – | – | – | – | – | – | – | – | 432 | 168 | 60 | 71 | W | 8 | 1.200 | 0.0472 | 0.94 | 1.03 | – | – |
| | | 10 | 0.3937 | 11.6 | 0.4567 | 0.15 | 0.0059 | – | – | – | – | – | – | MR105ZZ | MF105ZZ | 2RS | 2RU | – | 4.0 | 0.1575 | 0.8 | 0.0315 | 432 | 168 | 60 | 71 | W | 8 | 1.200 | 0.0472 | – | – | 1.23 | 1.38 |
| | | 11 | 0.4331 | 12.6 | 0.4961 | 0.15 | 0.0059 | – | – | – | – | – | – | MR115ZZ | MF115ZZ | 2RS | 2RU | – | 4.0 | 0.1575 | 0.8 | 0.0315 | 716 | 283 | 54 | 64 | J | 8 | 1.588 | 0.0625 | – | – | 1.54 | 1.71 |
| | | 11 | 0.4331 | 12.5 | 0.4921 | 0.15 | 0.0059 | 3.0 | 0.1181 | 0.8 | 0.0315 | 685 | F685 | 685ZZ | F685ZZ | 2RS | 2RU | – | 5.0 | 0.1969 | 1.0 | 0.0394 | 716 | 283 | 54 | 64 | J,TW | 8 | 1.588 | 0.0625 | 1.18 | 1.34 | 1.83 | 2.03 |
| | | 13 | 0.5118 | 15.0 | 0.5906 | 0.20 | 0.0079 | 4.0 | 0.1575 | 1.0 | 0.0394 | 695(1) | F695(1) | 695ZZ | F695ZZ | 2RS | 2RU | – | 4.0 | 0.1575 | 1.0 | 0.0394 | 1 080 | 430 | 50 | 59 | J | 8 | 2.000 | 0.0787 | 2.13 | 2.47 | 2.28 | 2.62 |
| | | 14 | 0.5512 | 16.0 | 0.6299 | 0.20 | 0.0079 | 5.0 | 0.1969 | 1.0 | 0.0394 | 605(1) | F605(1) | 605ZZ | F605ZZ | 2RS | 2RU | – | 5.0 | 0.1969 | 1.0 | 0.0394 | 1 330 | 507 | 48 | 56 | J,TW | 7 | 2.381 | 0.0937 | 3.09 | 3.52 | 3.36 | 3.79 |
| | | 16 | 0.6299 | 18.0 | 0.7087 | 0.30 | 0.0118 | 5.0 | 0.1969 | 1.0 | 0.0394 | 625(1) | F625(1) | 625ZZ | F625ZZ | 2RS | 2RU | – | 5.0 | 0.1969 | 1.0 | 0.0394 | 1 730 | 670 | 44 | 52 | J,TW | 7 | 2.778 | 0.1094 | 4.30 | 4.71 | 4.53 | 4.94 |
| | | 19 | 0.7480 | 22.0 | 0.8661 | 0.30 | 0.0118 | 6.0 | 0.2362 | 1.5 | 0.0591 | 635(1) | F635(1) | 635ZZ | F635ZZ | 2RS | 2RU | – | 6.0 | 0.2362 | 1.5 | 0.0591 | 2 340 | 889 | 38 | 45 | J | 6 | 3.500 | 0.1378 | 7.57 | 8.68 | 8.11 | 9.21 |
| 6 | 0.2362 | 10 | 0.3937 | 11.2 | 0.4409 | 0.15 | 0.0059 | 2.5 | 0.0984 | 0.6 | 0.0236 | MR106 | MF106 | – | – | – | – | – | – | – | – | – | 497 | 219 | 54 | 64 | W | 10 | 1.200 | 0.0472 | 0.58 | 0.66 | – | – |
| | | 10 | 0.3937 | 11.2 | 0.4409 | 0.10 | 0.0039 | – | – | – | – | – | – | MR106ZZ | MF106ZZ | – | – | – | 3.0 | 0.1181 | 0.6 | 0.0236 | 497 | 218 | 55 | 64 | W | 10 | 1.200 | 0.0472 | – | – | 0.71 | 0.78 |
| | | 10 | 0.3937 | – | – | 0.10 | 0.0039 | 3.0 | 0.1181 | – | – | 676(TTS) | – | – | – | – | – | TTS | 3.0 | 0.1181 | – | – | 373 | 172 | 55 | 65 | W | 11 | 1.000 | 0.0394 | 0.73 | – | 0.78 | – |
| | | 12 | 0.4724 | 13.2 | 0.5197 | 0.20 | 0.0079 | 3.0 | 0.1181 | 0.6 | 0.0236 | MR126 | MF126 | – | – | – | – | – | – | – | – | – | 716 | 293 | 50 | 59 | W,J | 8 | 1.588 | 0.0625 | 1.24 | 1.35 | – | – |
| | | 12 | 0.4724 | 13.6 | 0.5354 | 0.20 | 0.0079 | – | – | – | – | – | – | MR126ZZ | MF126ZZ | 2RS | 2RU | – | 4.0 | 0.1575 | 0.8 | 0.0315 | 716 | 293 | 50 | 59 | W,J | 8 | 1.588 | 0.0625 | – | – | 1.57 | 1.77 |
| | | 13 | 0.5118 | 15.0 | 0.5906 | 0.15 | 0.0059 | 3.5 | 0.1378 | 1.0 | 0.0394 | 686 | F686 | 686ZZ | F686ZZ | 2RS | 2RU | TTS | 5.0 | 0.1969 | 1.1 | 0.0433 | 1 080 | 438 | 48 | 56 | J,TW | 8 | 2.000 | 0.0787 | 1.85 | 2.17 | 2.50 | 2.86 |
| | | 15 | 0.5906 | 17.0 | 0.6693 | 0.20 | 0.0079 | 5.0 | 0.1969 | 1.2 | 0.0472 | 696(1) | F696(1) | 696ZZ | F696ZZ | 2RS | 2RU | TTS | 5.0 | 0.1969 | 1.2 | 0.0472 | 1 340 | 517 | 46 | 54 | J | 7 | 2.381 | 0.0937 | 3.52 | 3.98 | 3.82 | 4.28 |
| | | 16 | 0.6299 | – | – | 0.20 | 0.0079 | 5.0 | 0.1969 | – | – | 696A(1) | – | 696AZZ | – | 2RS | 2RU | – | 5.0 | 0.1969 | – | – | 1 340 | 517 | 46 | 54 | J | 7 | 2.381 | 0.0937 | 4.46 | – | 4.76 | – |
| | | 17 | 0.6693 | 19.0 | 0.7480 | 0.30 | 0.0118 | 6.0 | 0.2362 | 1.2 | 0.0472 | 606(1) | F606(1) | 606ZZ | F606ZZ | 2RS | 2RU | – | 6.0 | 0.2362 | 1.2 | 0.0472 | 2 260 | 838 | 42 | 49 | J | 6 | 3.500 | 0.1378 | 5.43 | 5.97 | 5.94 | 6.47 |
| | | 19 | 0.7480 | 22.0 | 0.8661 | 0.30 | 0.0118 | 6.0 | 0.2362 | 1.5 | 0.0591 | 626(1) | F626(1) | 626ZZ | F626ZZ | 2RS | 2RU | – | 6.0 | 0.2362 | 1.5 | 0.0591 | 2 340 | 889 | 38 | 45 | J,TW | 6 | 3.500 | 0.1378 | 7.18 | 8.31 | 7.70 | 8.84 |
| | | 19 | 0.7480 | – | – | 0.30 | 0.0118 | 6.0 | 0.2362 | – | – | 626(TTS) | – | – | – | – | – | TTS | 6.0 | 0.2362 | – | – | 2 240 | 912 | 37 | 44 | J | 7 | 3.175 | 0.1250 | 7.50 | – | 7.72 | – |
| | | 22 | 0.8661 | – | – | 0.30 | 0.0118 | 7.0 | 0.2756 | – | – | 636(1) | – | 636ZZ | – | 2RS | 2RU | – | 7.0 | 0.2756 | – | – | 3 300 | 1 370 | 33 | 39 | J | 7 | 3.969 | 0.1563 | 12.2 | – | 12.8 | – |
| 7 | 0.2756 | 11 | 0.4331 | 12.2 | 0.4803 | 0.15 | 0.0059 | 2.5 | 0.0984 | 0.6 | 0.0236 | MR117 | MF117 | MR117ZZS | MF117ZZS | – | – | TTS | 3.0 | 0.1181 | 0.6 | 0.0236 | 456 | 201 | 50 | 59 | W | 9 | 1.200 | 0.0472 | 0.61 | 0.70 | 0.75 | 0.84 |
| | | 13 | 0.5118 | 14.2 | 0.5591 | 0.20 | 0.0079 | 3.0 | 0.1181 | 0.6 | 0.0236 | MR137 | MF137 | – | – | – | – | – | – | – | – | – | 541 | 276 | 45 | 53 | W | 12 | 1.200 | 0.0472 | 1.55 | 1.67 | – | – |
| | | 13 | 0.5118 | 14.6 | 0.5748 | 0.15 | 0.0059 | – | – | – | – | – | – | MR137ZZ | MF137ZZ | – | – | TTS | 4.0 | 0.1575 | 0.8 | 0.0315 | 541 | 276 | 45 | 53 | W | 12 | 1.200 | 0.0472 | – | – | 2.00 | 2.25 |
| | | 14 | 0.5512 | 16.0 | 0.6299 | 0.15 | 0.0059 | 3.5 | 0.1378 | 1.0 | 0.0394 | 687 | F687 | 687ZZ | F687ZZ | 2RS | 2RU | TTS | 5.0 | 0.1969 | 1.1 | 0.0433 | 1 180 | 511 | 44 | 52 | J | 9 | 2.000 | 0.0787 | 2.04 | 2.39 | 2.77 | 3.15 |
| | | 17 | 0.6693 | 19.0 | 0.7480 | 0.30 | 0.0118 | 5.0 | 0.1969 | 1.2 | 0.0472 | 697(1) | F697(1) | 697ZZ | F697ZZ | 2RS | 2RU | – | 5.0 | 0.1969 | 1.2 | 0.0472 | 1 610 | 716 | 40 | 47 | J,TW | 9 | 2.381 | 0.0937 | 4.81 | 5.35 | 5.03 | 5.57 |
| | | 19 | 0.7480 | 22.0 | 0.8661 | 0.30 | 0.0118 | 6.0 | 0.2362 | 1.5 | 0.0591 | 607(1) | F607(1) | 607ZZ | F607ZZ | 2RS | 2RU | – | 6.0 | 0.2362 | 1.5 | 0.0591 | 2 340 | 889 | 38 | 45 | J,TW | 6 | 3.500 | 0.1378 | 6.76 | 7.90 | 7.26 | 8.40 |
| | | 19 | 0.7480 | – | – | 0.30 | 0.0118 | 6.0 | 0.2362 | – | – | 607(TTS) | – | – | – | – | – | TTS | 6.0 | 0.2362 | – | – | 2 240 | 912 | 37 | 44 | J | 7 | 3.175 | 0.1250 | 6.91 | – | 7.13 | – |
| | | 22 | 0.8661 | 25.0 | 0.9843 | 0.30 | 0.0118 | 7.0 | 0.2756 | 1.5 | 0.0591 | 627(1) | F627(1) | 627ZZ | F627ZZ | 2RS | 2RU | TTS | 7.0 | 0.2756 | 1.5 | 0.0591 | 3 300 | 1 370 | 33 | 39 | J,TW | 7 | 3.969 | 0.1563 | 11.6 | 13.0 | 12.2 | 13.6 |
| | | 26 | 1.0236 | – | – | 0.30 | 0.0118 | 9.0 | 0.3543 | – | – | 637(1) | – | 637ZZ | – | 2RS | 2RU | – | 9.0 | 0.3543 | – | – | 4 580 | 1 970 | 28 | 33 | J | 7 | 4.762 | 0.1875 | 22.1 | – | 23.2 | – |
| 8 | 0.3150 | 12 | 0.4724 | 13.2 | 0.5197 | 0.15 | 0.0059 | 2.5 | 0.0984 | 0.6 | 0.0236 | MR128 | MF128 | – | – | – | – | – | – | – | – | – | 544 | 275 | 46 | 54 | W | 12 | 1.200 | 0.0472 | 0.71 | 0.80 | – | – |
| | | 12 | 0.4724 | 13.6 | 0.5354 | 0.10 | 0.0039 | – | – | – | – | – | – | MR128ZZ | MF128ZZ | 2RS | 2RU | TTS | 3.5 | 0.1378 | 0.8 | 0.0315 | 544 | 275 | 46 | 54 | W | 12 | 1.200 | 0.0472 | – | – | 1.01 | 1.20 |
| | | 14 | 0.5512 | 15.6 | 0.6142 | 0.20 | 0.0079 | 3.5 | 0.1378 | 0.8 | 0.0315 | MR148 | MF148 | – | – | – | – | – | – | – | – | – | 818 | 386 | 42 | 50 | J | 10 | 1.588 | 0.0625 | 1.80 | 2.01 | – | – |
| | | 14 | 0.5512 | 15.6 | 0.6142 | 0.15 | 0.0059 | – | – | – | – | – | – | MR148ZZ | MF148ZZ | 2RS | 2RU | – | 4.0 | 0.1575 | 0.8 | 0.0315 | 818 | 386 | 42 | 50 | J,TW | 10 | 1.588 | 0.0625 | – | – | 2.00 | 2.22 |
| | | 16 | 0.6299 | 18.0 | 0.7087 | 0.20 | 0.0079 | 4.0 | 0.1575 | 1.0 | 0.0394 | 688 | F688 | 688ZZ | F688ZZ | 2RS | 2RU | TTS | 5.0 | 0.1969 | 1.1 | 0.0433 | 1 260 | 590 | 40 | 47 | J | 10 | 2.000 | 0.0787 | 3.16 | 3.57 | 3.79 | 4.25 |
| | | 19 | 0.7480 | 22.0 | 0.8661 | 0.30 | 0.0118 | 6.0 | 0.2362 | 1.5 | 0.0591 | 698(1) | F698(1) | 698ZZ | F698ZZ | 2RS | 2RU | – | 6.0 | 0.2362 | 1.5 | 0.0591 | 2 240 | 912 | 37 | 44 | J | 7 | 3.175 | 0.1250 | 6.21 | 7.34 | 6.72 | 7.85 |
| | | 22 | 0.8661 | 25.0 | 0.9843 | 0.30 | 0.0118 | 7.0 | 0.2756 | 1.5 | 0.0591 | 608(1) | F608(1) | 608ZZ | F608ZZ | 2RS | 2RU | TTS | 7.0 | 0.2756 | 1.5 | 0.0591 | 3 300 | 1 370 | 33 | 39 | J,TW | 7 | 3.969 | 0.1563 | 11.0 | 12.3 | 11.6 | 12.9 |
| | | 24 | 0.9449 | – | – | 0.30 | 0.0118 | 8.0 | 0.3150 | – | – | 628(1) | – | 628ZZ | – | 2RS | 2RU | – | 8.0 | 0.3150 | – | – | 3 330 | 1 410 | 31 | 37 | J | 7 | 3.969 | 0.1563 | 16.5 | – | 17.2 | – |
| | | 28 | 1.1024 | – | – | 0.30 | 0.0118 | 9.0 | 0.3543 | – | – | 638(1) | – | 638ZZ | – | 2RS | 2RU | – | 9.0 | 0.3543 | – | – | 4 580 | 1 970 | 28 | 33 | J | 7 | 4.762 | 0.1875 | 27.2 | – | 28.4 | – |
| 9 | 0.3543 | 14 | 0.5512 | – | – | 0.10 | 0.0039 | 3.0 | 0.1181 | – | – | 679 | – | 679ZZS | – | – | – | TTS | 4.5 | 0.1772 | – | – | 919 | 467 | 41 | 48 | W | 12 | 1.588 | 0.0625 | 1.29 | – | 1.84 | – |
| | | 17 | 0.6693 | 19.0 | 0.7480 | 0.20 | 0.0079 | 4.0 | 0.1575 | 1.0 | 0.0394 | 689 | F689 | 689ZZ | F689ZZ | 2RS | 2RU | – | 5.0 | 0.1969 | 1.1 | 0.0433 | 1 330 | 664 | 37 | 44 | J | 11 | 2.000 | 0.0787 | 3.43 | 3.86 | 4.12 | 4.58 |
| | | 20 | 0.7874 | 23.0 | 0.9055 | 0.30 | 0.0118 | 6.0 | 0.2362 | 1.5 | 0.0591 | 699(1) | F699(1) | 699ZZ | F699ZZ | 2RS | 2RU | – | 6.0 | 0.2362 | 1.5 | 0.0591 | 2 470 | 1 070 | 35 | 42 | J | 8 | 3.175 | 0.1250 | 7.09 | 8.27 | 7.59 | 8.77 |
| | | 24 | 0.9449 | 27.0 | 1.0630 | 0.30 | 0.0118 | 7.0 | 0.2756 | 1.5 | 0.0591 | 609(1) | F609(1) | 609ZZ | F609ZZ | 2RS | 2RU | – | 7.0 | 0.2756 | 1.5 | 0.0591 | 3 350 | 1 430 | 30 | 36 | J | 7 | 3.969 | 0.1563 | 13.3 | 14.7 | 14.0 | 15.5 |
| | | 26 | 1.0236 | – | – | 0.60(4) | 0.0236(4) | 8.0 | 0.3150 | – | – | 629(1) | – | 629ZZ | – | 2RS | 2RU | – | 8.0 | 0.3150 | – | – | 4 580 | 1 970 | 28 | 33 | J | 7 | 4.762 | 0.1875 | 17.8 | – | 18.9 | – |
| | | 30 | 1.1811 | – | – | 0.60 | 0.0236 | 10.0 | 0.3937 | – | – | 639(1) | – | 639ZZ | – | 2RS | 2RU | – | 10.0 | 0.3937 | – | – | 5 110 | 2 390 | 25 | 30 | RJ | 8 | 4.762 | 0.1875 | 33.3 | – | 34.8 | – |

(1) Open type bearings have shield/seal grooves. (2) Single shield or single seal types are also available; suffix Z, RS, RU or TS.
(3) Prefix S or suffix H is added for stainless material types. Load ratings of stainless material types are calculated by Cr×0.85 and Cor×0.80 of SUJ2 material types.
(4) Chamfer dimension (4) is not based on JIS B 1521.
(5) Applicable only for open, single Z, ZZ, single RU and 2RU types in inner ring rotating conditions. Max. speeds for the contact rubber seal(s) types will be around 50-60% of above values.