



Technical
Dimension

| Bore Diameter: d | | Outer Diameter: D | | Flange Diameter: Df | | Radius r _s (min) | | Open Bearings | | | | | | Bearing Reference | | | |
|---------------------|--------|----------------------|--------|------------------------|--------|--------------------------------|--------|-----------------------------|--------|-----------------------------|--------|---------------------------------|--------|-----------------------|------------------------|-----------|---------------|
| | | | | | | | | IR Width: B _i | | OR Width: B _e | | Flange Width: B _f | | Open | Flange Open | Shield | Flange Shield |
| | | | | | | | | | | | | | | | | | |
| 1.016 | 0.0400 | 3.175 | 0.1250 | 4.343 | 0.1710 | 0.10 | 0.0039 | 1.191 | 0.0469 | 1.191 | 0.0469 | 0.330 | 0.0130 | R09 | FR09 | - | - |
| 1.191 | 0.0469 | 3.967 | 0.1562 | 5.156 | 0.2030 | 0.10 | 0.0039 | 1.588 | 0.0625 | 1.588 | 0.0625 | 0.330 | 0.0130 | R0 | FR0 | R0ZZ | FR0ZZ |
| | | 3.967 | 0.1562 | 5.156 | 0.2030 | 0.10 | 0.0039 | 2.380 | 0.0937 | 1.588 | 0.0625 | - | - | RW0 | - | RW0ZZ | FRW0ZZ |
| 1.397 | 0.0550 | 4.762 | 0.1875 | 5.944 | 0.2340 | 0.10 | 0.0039 | 1.984 | 0.0781 | 1.984 | 0.0781 | 0.584 | 0.0230 | R1 | FR1 | R1ZZ | FR1ZZ |
| | | 4.762 | 0.1875 | 5.944 | 0.2340 | 0.10 | 0.0039 | 3.571 | 0.1406 | 2.779 | 0.1094 | 0.787 | 0.0310 | RW1 ⁽¹⁾ | FRW1 ⁽¹⁾ | RW1ZZ | FRW1ZZ |
| 1.984 | 0.0781 | 6.350 | 0.2500 | 7.518 | 0.2960 | 0.10 | 0.0039 | 2.380 | 0.0937 | 2.380 | 0.0937 | 0.584 | 0.0230 | R1-4 | FR1-4 | R1-4ZZ | FR1-4ZZ |
| | | 6.350 | 0.2500 | 7.518 | 0.2960 | 0.10 | 0.0039 | 3.175 | 0.1250 | 2.380 | 0.0937 | 0.584 | 0.0230 | RW1-4 | FRW1-4 | RW1-4ZZ | FRW1-4ZZ |
| 2.380 | 0.0937 | 4.762 | 0.1875 | 5.944 | 0.2340 | 0.10 | 0.0039 | 1.588 | 0.0625 | 1.588 | 0.0625 | 0.457 | 0.0180 | R133 | FR133 | - | - |
| | | 4.762 | 0.1875 | 5.944 | 0.2340 | 0.10 | 0.0039 | 2.380 | 0.0937 | 1.588 | 0.0625 | 0.457 | 0.0180 | - | FRW133 | - | - |
| | | 4.762 | 0.1875 | 5.944 | 0.2340 | 0.10 | 0.0039 | - | - | - | - | - | - | - | - | R133ZZS | FR133ZZS |
| | | 4.762 | 0.1875 | 5.944 | 0.2340 | 0.10 | 0.0039 | 3.175 | 0.1250 | 2.380 | 0.0937 | - | - | RW133 ⁽¹⁾ | - | RW133ZZS | FRW133ZZS |
| | | 7.938 | 0.3125 | 9.119 | 0.3590 | 0.15 | 0.0059 | 2.779 | 0.1094 | 2.779 | 0.1094 | 0.584 | 0.0230 | R1-5 | FR1-5 | R1-5ZZ | FR1-5ZZ |
| | | 7.938 | 0.3125 | - | - | 0.15 | 0.0059 | 4.366 | 0.1719 | 3.571 | 0.1406 | - | - | RW1-5 ⁽¹⁾ | - | RW1-5ZZ | - |
| 3.175 | 0.1250 | 6.350 | 0.2500 | - | - | 0.10 | 0.0039 | 2.779 | 0.1094 | 2.779 | 0.1094 | - | - | R144J ⁽¹⁾ | - | R144JZZS | - |
| | | 6.350 | 0.2500 | 7.518 | 0.2960 | 0.10 | 0.0039 | 2.380 | 0.0937 | 2.380 | 0.0937 | 0.584 | 0.0230 | R144 | FR144 | R144ZZ | FR144ZZ |
| | | 6.350 | 0.2500 | 7.518 | 0.2960 | 0.10 | 0.0039 | 3.175 | 0.1250 | 2.380 | 0.0937 | 0.584 | 0.0230 | RW144 | FRW144 | RW144ZZ | FRW144ZZ |
| | | 7.938 | 0.3125 | 9.119 | 0.3590 | 0.10 | 0.0039 | 2.779 | 0.1094 | 2.779 | 0.1094 | 0.584 | 0.0230 | R2-5 | FR2-5 | R2-5ZZ | FR2-5ZZ |
| | | 7.938 | 0.3125 | 9.119 | 0.3590 | 0.10 | 0.0039 | 3.571 | 0.1406 | 2.779 | 0.1094 | 0.584 | 0.0230 | - | FRW2-5 | RW2-5ZZ | FRW2-5ZZ |
| | | 9.525 | 0.3750 | 10.719 | 0.4220 | 0.15 | 0.0059 | 2.779 | 0.1094 | 2.779 | 0.1094 | 0.584 | 0.0230 | R2-6 | FR2-6 | R2-6ZZ | FR2-6ZZ |
| | | 9.525 | 0.3750 | 10.719 | 0.4220 | 0.15 | 0.0059 | 3.571 | 0.1406 | 2.779 | 0.1094 | - | - | RW2-6 | - | RW2-6ZZ | FRW2-6ZZ |
| | | 9.525 | 0.3750 | 11.176 | 0.4400 | 0.30 | 0.0118 | 3.967 | 0.1562 | 3.967 | 0.1562 | 0.762 | 0.0300 | R2 ⁽¹⁾ | FR2 ⁽¹⁾ | R2ZZ | FR2ZZ |
| | | 9.525 | 0.3750 | 11.176 | 0.4400 | 0.30 | 0.0118 | 4.762 | 0.1875 | 3.967 | 0.1562 | 0.762 | 0.0300 | RW2 ⁽¹⁾ | FRW2 ⁽¹⁾ | RW2ZZ | FRW2ZZ |
| | | 12.700 | 0.5000 | - | - | 0.30 | 0.0118 | 4.366 | 0.1719 | 4.366 | 0.1719 | - | - | R2A ⁽¹⁾ | - | R2AZZ | - |
| 3.967 | 0.1562 | 7.938 | 0.3125 | 9.119 | 0.3590 | 0.10 | 0.0039 | 2.779 | 0.1094 | 2.779 | 0.1094 | 0.584 | 0.0230 | R155 | FR155 | R155ZZS | FR155ZZS |
| | | 7.938 | 0.3125 | 9.119 | 0.3590 | 0.10 | 0.0039 | 3.967 | 0.1562 | 3.175 | 0.1250 | 0.914 | 0.0360 | RW155 ⁽¹⁾ | FRW155 ⁽¹⁾ | RW155ZZS | FRW155ZZS |
| 4.762 | 0.1875 | 7.938 | 0.3125 | 9.119 | 0.3590 | 0.10 | 0.0039 | 2.779 | 0.1094 | 2.779 | 0.1094 | 0.584 | 0.0230 | R156 | FR156 | R156ZZS | FR156ZZS |
| | | 7.938 | 0.3125 | 9.119 | 0.3590 | 0.10 | 0.0039 | 3.967 | 0.1562 | 3.175 | 0.1250 | 0.914 | 0.0360 | RW156 ⁽¹⁾ | FRW156 ⁽¹⁾ | RW156ZZS | FRW156ZZS |
| | | 9.525 | 0.3750 | 10.719 | 0.4220 | 0.10 | 0.0039 | 3.175 | 0.1250 | 3.175 | 0.1250 | 0.584 | 0.0230 | R166 ⁽¹⁾ | FR166 | R166ZZ | FR166ZZ |
| | | 9.525 | 0.3750 | 10.719 | 0.4220 | 0.10 | 0.0039 | 3.967 | 0.1562 | 3.175 | 0.1250 | 0.584 | 0.0230 | RW166 ⁽¹⁾ | FRW166 | RW166ZZ | FRW166ZZ |
| | | 12.700 | 0.5000 | 14.351 | 0.5650 | 0.30 | 0.0118 | 4.978 | 0.1960 | 4.978 | 0.1960 | 1.067 | 0.0420 | - | FR3 | - | - |
| | | 12.700 | 0.5000 | 14.351 | 0.5650 | 0.30 | 0.0118 | 3.967 | 0.1562 | 3.967 | 0.1562 | - | - | R3 | - | R3ZZ | FR3ZZ |
| | | 12.700 | 0.5000 | 14.351 | 0.5650 | 0.30 | 0.0118 | 4.762 | 0.1875 | 3.967 | 0.1562 | - | - | RW3 | - | RW3ZZ | FRW3ZZ |
| | | 15.875 | 0.6250 | - | - | 0.30 | 0.0118 | 4.978 | 0.1960 | 4.978 | 0.1960 | - | - | R3A ⁽¹⁾ | - | R3AZZ | - |
| 6.350 | 0.2500 | 9.525 | 0.3750 | 10.719 | 0.4220 | 0.10 | 0.0039 | 3.175 | 0.1250 | 3.175 | 0.1250 | 0.584 | 0.0230 | R168 ⁽¹⁾ | FR168 | R168ZZS | FR168ZZS |
| | | 9.525 | 0.3750 | 10.719 | 0.4220 | 0.10 | 0.0039 | 3.967 | 0.1562 | 3.175 | 0.1250 | 0.914 | 0.0360 | RW168 ⁽¹⁾ | FRW168 ⁽¹⁾ | RW168ZZS | FRW168ZZS |
| | | 12.700 | 0.5000 | 13.894 | 0.5470 | 0.15 | 0.0059 | 3.175 | 0.1250 | 3.175 | 0.1250 | 0.584 | 0.0230 | R188 | FR188 | R188ZZ | FR188ZZ |
| | | 12.700 | 0.5000 | 13.894 | 0.5470 | 0.15 | 0.0059 | 3.967 | 0.1562 | 3.175 | 0.1250 | 0.584 | 0.0230 | RW188 | FRW188 | RW188ZZ | FRW188ZZ |
| | | 15.875 | 0.6250 | 17.526 | 0.6900 | 0.30 | 0.0118 | 4.978 | 0.1960 | 4.978 | 0.1960 | 1.067 | 0.0420 | R4 ⁽¹⁾ | FR4 ⁽¹⁾ | R4ZZ | FR4ZZ |
| | | 15.875 | 0.6250 | 17.526 | 0.6900 | 0.30 | 0.0118 | 5.770 | 0.2272 | 4.978 | 0.1960 | 1.067 | 0.0420 | RW4 ⁽¹⁾ | FRW4 ⁽¹⁾ | RW4ZZ | FRW4ZZ |
| | | 19.050 | 0.7500 | - | - | 0.40 | 0.0157 | 5.558 | 0.2188 | 5.558 | 0.2188 | - | - | R4A | - | R4AZZ | - |
| 7.938 | 0.3125 | 12.700 | 0.5000 | 13.894 | 0.5470 | 0.15 | 0.0059 | 3.967 | 0.1562 | 3.967 | 0.1562 | 0.787 | 0.0310 | R1810 ⁽¹⁾ | FR1810 ⁽¹⁾ | R1810ZZS | FR1810ZZS |
| | | 12.700 | 0.5000 | 13.894 | 0.5470 | 0.15 | 0.0059 | 4.762 | 0.1875 | 3.967 | 0.1562 | 0.787 | 0.0310 | RW1810 ⁽¹⁾ | FRW1810 ⁽¹⁾ | RW1810ZZS | FRW1810ZZS |
| 9.525 | 0.3750 | 22.225 | 0.8750 | 24.613 | 0.9690 | 0.40 | 0.0157 | 5.558 | 0.2188 | 5.558 | 0.2188 | 1.575 | 0.0620 | R6 | FR6 | R6ZZ | FR6ZZ |
| | | 22.225 | 0.8750 | - | - | 0.40 | 0.0157 | 7.950 | 0.3130 | 6.350 | 0.2500 | - | - | R6W | - | - | - |
| 12.700 | 0.5000 | 28.575 | 1.1250 | 31.120 | 1.2252 | 0.40 | 0.0157 | 6.350 | 0.2500 | 6.350 | 0.2500 | - | - | R8 | - | R8ZZ | FR8ZZ |
| | | 28.575 | 1.1250 | 31.120 | 1.2252 | 0.40 | 0.0157 | 7.938 | 0.3125 | 7.938 | 0.3125 | 1.575 | 0.0620 | - | FR8 ⁽¹⁾ | - | - |
| 15.875 | 0.6250 | 34.925 | 1.3750 | 37.846 | 1.4900 | 0.80 | 0.0315 | 7.142 | 0.2812 | 7.142 | 0.2812 | - | - | R10 | - | R10ZZ | FR10ZZ |
| 19.050 | 0.7500 | 41.275 | 1.6250 | - | - | 0.80 | 0.0315 | 7.938 | 0.3125 | 7.938 | 0.3125 | - | - | R12 | - | - | - |
| | | 41.275 | 1.6250 | - | - | 0.80 | 0.0315 | - | - | - | - | - | - | - | - | R12ZZ | - |

1) Open type bearings have shield/seal grooves. 2) Single shield or seal types are also available; suffix Z, RS, RU or TS.

3) Prefix S or suffix H is added for stainless material type. Load ratings of stainless material types are calculated by Cr×0.85 or Cor×0.80 of SUJ2 material types.