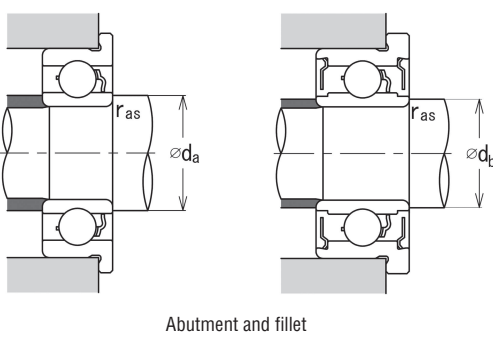
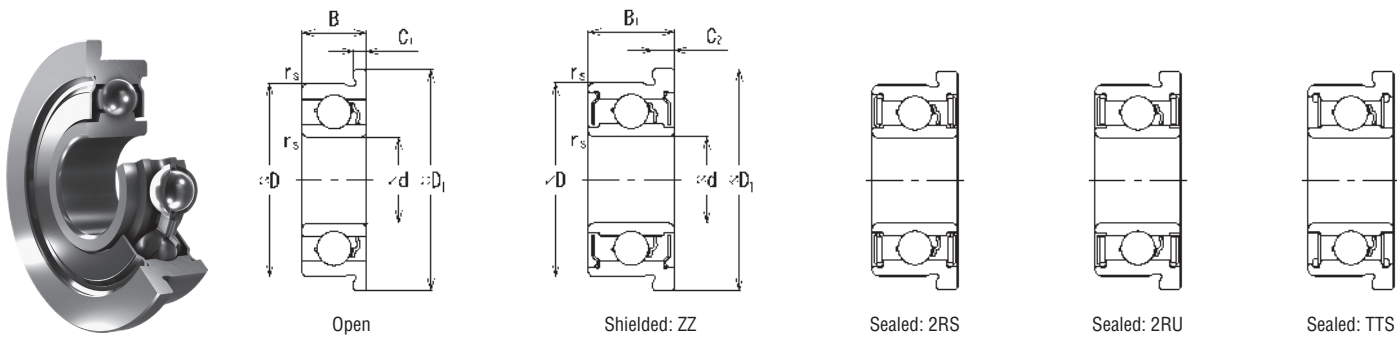


Flanged inch-series bearings [SUJ2]



| Bore diameter<br>d |        | Outer diameter<br>D |        | Width     |        |                                    |        | Flange outer<br>diameter<br>D <sub>1</sub> |        | Flange width           |        |                                    |        | Chamfer<br>f <sub>s</sub> (mm) |        | Bearing number        |           |
|--------------------|--------|---------------------|--------|-----------|--------|------------------------------------|--------|--------------------------------------------|--------|------------------------|--------|------------------------------------|--------|--------------------------------|--------|-----------------------|-----------|
|                    |        |                     |        | Open<br>B |        | Shielded, Sealed<br>B <sub>1</sub> |        |                                            |        | Open<br>C <sub>1</sub> |        | Shielded, Sealed<br>C <sub>2</sub> |        |                                |        |                       |           |
|                    |        |                     |        | mm        | inch   | mm                                 | inch   | mm                                         | inch   | mm                     | inch   | mm                                 | inch   | mm                             | inch   | mm                    | inch      |
| 2.380              | 0.0937 | 4.762               | 0.1875 | 1.588     | 0.0625 | —                                  | —      | 5.944                                      | 0.2340 | 0.457                  | 0.0180 | —                                  | —      | 0.10                           | 0.0039 | FR133                 | —         |
| 3.175              | 0.1250 | 6.350               | 0.2500 | —         | —      | 2.779                              | 0.1094 | 7.518                                      | 0.2960 | —                      | —      | 0.787                              | 0.0310 | 0.10                           | 0.0039 | —                     | FR144ZZ   |
|                    |        | 7.938               | 0.3125 | —         | —      | 3.571                              | 0.1406 | 9.119                                      | 0.3590 | —                      | —      | 0.787                              | 0.0310 | 0.10                           | 0.0039 | —                     | FR2-5ZZ   |
|                    |        | 9.525               | 0.3750 | 3.967     | 0.1562 | 3.967                              | 0.1562 | 11.176                                     | 0.4400 | 0.762                  | 0.0300 | 0.762                              | 0.0300 | 0.30                           | 0.0118 | FR2 <sup>(1)</sup>    | FR2ZZ     |
| 3.967              | 0.1562 | 7.938               | 0.3125 | —         | —      | 3.175                              | 0.1250 | 9.119                                      | 0.3590 | —                      | —      | 0.914                              | 0.0360 | 0.10                           | 0.0039 | —                     | FR155ZZS  |
| 4.762              | 0.1875 | 12.700              | 0.5000 | 4.978     | 0.1960 | 4.978                              | 0.1960 | 14.351                                     | 0.5650 | 1.067                  | 0.0420 | 1.067                              | 0.0420 | 0.30                           | 0.0118 | FR3                   | FR3ZZ     |
| 6.350              | 0.2500 | 9.525               | 0.3750 | —         | —      | 3.175                              | 0.1250 | 10.719                                     | 0.4220 | —                      | —      | 0.914                              | 0.0360 | 0.10                           | 0.0039 | —                     | FR168ZZ   |
|                    |        | 12.700              | 0.5000 | —         | —      | 4.762                              | 0.1875 | 13.894                                     | 0.5470 | —                      | —      | 1.143                              | 0.0450 | 0.15                           | 0.0059 | —                     | FR188ZZ   |
|                    |        | 15.875              | 0.6250 | 4.978     | 0.1960 | 4.978                              | 0.1960 | 17.526                                     | 0.6900 | 1.067                  | 0.0420 | 1.067                              | 0.0420 | 0.30                           | 0.0118 | FR4 <sup>(1)</sup>    | FR4ZZ     |
| 7.938              | 0.3125 | 12.700              | 0.5000 | 3.967     | 0.1562 | 3.967                              | 0.1562 | 13.894                                     | 0.5470 | 0.787                  | 0.0310 | 0.787                              | 0.0310 | 0.15                           | 0.0059 | FR1810 <sup>(1)</sup> | FR1810ZZS |
| 9.525              | 0.3750 | 22.225              | 0.8750 | 5.558     | 0.2188 | 7.142                              | 0.2812 | 24.613                                     | 0.9690 | 1.575                  | 0.0620 | 1.575                              | 0.0620 | 0.40                           | 0.0157 | FR6                   | FR6ZZ     |
| 12.700             | 0.5000 | 28.575              | 1.1250 | 6.350     | 0.2500 | 7.938                              | 0.3125 | 31.120                                     | 1.2252 | 1.575                  | 0.0620 | 1.575                              | 0.0620 | 0.40                           | 0.0157 | FR8                   | FR8ZZ     |
| 15.875             | 0.6250 | 34.925              | 1.3750 | —         | —      | 8.733                              | 0.3438 | 37.846                                     | 1.4900 | —                      | —      | 1.745                              | 0.0687 | 0.80                           | 0.0315 | —                     | FR10ZZ    |

| Bearing number         |     |     | Load rating |       | Limiting speed <sup>(3)</sup> |         | Cage type <sup>(4)</sup> | Ball  |      | Abutment and fillet dimensions |                      |                      |                      |                       |      | Mass (Ref.) |  |
|------------------------|-----|-----|-------------|-------|-------------------------------|---------|--------------------------|-------|------|--------------------------------|----------------------|----------------------|----------------------|-----------------------|------|-------------|--|
|                        |     |     |             |       |                               |         |                          |       |      | Open                           |                      | Shielded, Sealed     |                      | r <sub>as</sub> (max) | Open | 2 Shields   |  |
| 2 Seals <sup>(2)</sup> |     |     | Cr          | Cor   | Grease                        | Oil     |                          | Size  | Qty. | d <sub>a</sub> (min)           | d <sub>a</sub> (max) | d <sub>b</sub> (min) | d <sub>b</sub> (max) |                       |      |             |  |
| 2RS                    | 2RU | TTS | N           |       | min <sup>-1</sup>             |         |                          | mm    | pcs. | mm                             |                      | mm                   |                      | mm                    | g    |             |  |
| —                      | —   | —   | 189         | 60    | 90 000                        | 106 000 | W                        | 0.800 | 7    | 2.90                           | 2.90                 | —                    | —                    | 0.10                  | 0.13 | —           |  |
| —                      | —   | —   | 284         | 95    | 77 000                        | 91 000  | W                        | 1.000 | 7    | —                              | —                    | 3.80                 | 3.80                 | 0.10                  | —    | 0.36        |  |
| —                      | —   | —   | 559         | 179   | 70 000                        | 82 000  | W                        | 1.588 | 6    | —                              | —                    | 4.00                 | 4.30                 | 0.10                  | —    | 0.75        |  |
| —                      | —   | —   | 633         | 218   | 66 000                        | 78 000  | J                        | 1.588 | 7    | 4.70                           | 4.70                 | 4.70                 | 4.70                 | 0.30                  | 1.39 | 1.46        |  |
| —                      | —   | —   | 360         | 149   | 64 000                        | 76 000  | W                        | 1.000 | 10   | —                              | —                    | 4.80                 | 5.40                 | 0.10                  | —    | 0.69        |  |
| 2RS                    | —   | —   | 1 300       | 485   | 51 000                        | 60 000  | J                        | 2.381 | 7    | 6.80                           | 6.90                 | 6.40                 | 6.40                 | 0.30                  | 2.93 | 2.91        |  |
| —                      | —   | —   | 373         | 172   | 55 000                        | 65 000  | W                        | 1.000 | 11   | —                              | —                    | 7.00                 | 7.00                 | 0.10                  | —    | 0.67        |  |
| —                      | —   | —   | 1 080       | 438   | 48 000                        | 56 000  | J                        | 2.000 | 8    | —                              | —                    | 7.20                 | 7.30                 | 0.15                  | —    | 2.24        |  |
| 2RS                    | 2RU | —   | 1 480       | 617   | 42 000                        | 50 000  | J                        | 2.381 | 8    | 8.00                           | 8.30                 | 8.00                 | 8.30                 | 0.30                  | 4.26 | 4.58        |  |
| —                      | —   | TTS | 541         | 276   | 45 000                        | 53 000  | W                        | 1.200 | 12   | 8.90                           | 8.90                 | 8.90                 | 8.90                 | 0.15                  | 1.56 | 1.65        |  |
| 2RS                    | 2RU | —   | 3 330       | 1 410 | 31 000                        | 37 000  | J                        | 3.969 | 7    | 12.10                          | 12.70                | 11.60                | 11.80                | 0.40                  | 9.85 | 11.8        |  |
| 2RS                    | 2RU | —   | 5 110       | 2 390 | 25 000                        | 30 000  | J                        | 4.762 | 8    | 15.50                          | 16.50                | 15.00                | 15.50                | 0.40                  | 18.7 | 21.8        |  |
| —                      | —   | —   | 6 000       | 3 270 | 20 000                        | 24 000  | RJ                       | 4.762 | 10   | —                              | —                    | 20.50                | 23.00                | 0.80                  | —    | 38.5        |  |

(1) Open bearings have shield/seal grooves.  
(2) Single-shielded/single-sealed bearings are also available; suffix Z, RS, RU or TS.  
(shielded/sealed at flanged side unless otherwise requested)  
(3) Applicable only for open, single Z, ZZ, single RU and 2RU types in inner ring rotating conditions.  
Limiting speeds for the contact rubber seal(s) types can be lower than the above-mentioned values, so please check the detailed values per item on "products" section of our website.  
(4) Some items are also available with the TW cage. Please contact us for details.