



## SKF Single row deep groove ball bearing Stainless steel Closure on both sides

Stainless steel deep groove ball bearings are resistant to corrosion which may occur due to humidity. These single-row deep groove ball bearings are extremely versatile. They are simple in design, suitable for high to very high speeds, very robust and thus low-maintenance. Thanks to the deep grooves and the close contact between the grooves and the balls, deep groove ball bearings are extremely well suited to tolerate both radial loads and axial loads in both directions, even at high speeds. Stainless steel deep groove ball bearings have the same operating characteristics as conventional deep groove ball bearings made of steel, but have a lower load capacity. Both open (unsealed) and sealed versions of the single-row deep groove ball bearings are available. Bearings sealed on both sides have lifetime lubrication and therefore need not be regreased during use. They have been filled with the exact quantity of high-quality lubricant under controlled conditions.

### Bearing with cover plates 2Z:

The cover plates, manufactured from sheet steel, are primarily suited to applications where the i-race of the bearing rotates. There is a sealing gap between the outer edge of the plate and the i-race. The clearance between the cover plate and the i-race is designed in such a way that no contact can be made, even if the bearing exhibits a large amount of radial play. To prevent corrosion, the cover plates are galvanized.

### Bearing with contact seals 2RSH, 2RS1:

Contact seals are made from nitrile butadiene rubber (NBR) with sheet steel reinforcement. The seals are fitted in the recesses of the o-race. In contrast to the low-friction seal, the contact seal makes contact with the i-race. The contact seal prevents the ingress of any dust or moisture into the bearing.

### Characteristics

**Series:** 60

**Type:** 6003

**Execution:** Single row

**Material:** Stainless steel

**Sealing:** Closure on both sides

### Application

- Recommended in: Food & Beverages

| Manufacturer ID   | Inner diameter<br>mm | Outer diameter<br>mm | Width<br>mm | Internal clearance | Cage            | Article  |
|-------------------|----------------------|----------------------|-------------|--------------------|-----------------|----------|
| W 639/2-2Z        | 2                    | 6                    | 3           | CN (normal)        | Stainless steel | 23223720 |
| D/W R166-2Z       | 4.762                | 9.525                | 3.175       | CN (normal)        | Stainless steel | 23771892 |
| D/W R3-2Z/P6      | 4.762                | 12.7                 | 4.978       | CN (normal)        | Stainless steel | 23771894 |
| W 625-2RS1/W64F   | 5                    | 16                   | 5           | CN (normal)        | Stainless steel | 13530253 |
| W 635-2Z/VT378    | 6                    | 13                   | 5           | CN (normal)        | Stainless steel | 13530254 |
| D/W R4-2Z         | 6.35                 | 15.875               | 4.978       | CN (normal)        | Stainless steel | 23771893 |
| W 61800-2Z        | 10                   | 19                   | 5           | CN (normal)        | Stainless steel | 23771786 |
| W 61800-2RS1      | 10                   | 19                   | 5           | CN (normal)        | Stainless steel | 23771785 |
| W 63800-2Z        | 10                   | 19                   | 7           | CN (normal)        | Stainless steel | 23771887 |
| W 61900-2Z        | 10                   | 22                   | 6           | CN (normal)        | Stainless steel | 23771809 |
| W 61900-2RS1      | 10                   | 22                   | 6           | CN (normal)        | Stainless steel | 23771808 |
| W 6000-2Z         | 10                   | 26                   | 8           | CN (normal)        | Stainless steel | 23771751 |
| W 6000-2Z/VT152   | 10                   | 26                   | 8           | CN (normal)        | Stainless steel | 24004654 |
| W 6000-2RS1/VP311 | 10                   | 26                   | 8           | CN (normal)        | Stainless steel | 13201702 |
| W 6000-2RS1       | 10                   | 26                   | 8           | CN (normal)        | Stainless steel | 23771750 |

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| Manufacturer ID    | Inner diameter<br>mm | Outer diameter<br>mm | Width<br>mm | Internal clearance | Cage            | Article  |
|--------------------|----------------------|----------------------|-------------|--------------------|-----------------|----------|
| W 6000-2RS1/W64F   | 10                   | 26                   | 8           | CN (normal)        | Stainless steel | 13201704 |
| W 6000-2RS1/W64    | 10                   | 26                   | 8           | CN (normal)        | Stainless steel | 13201703 |
| W 6200-2Z          | 10                   | 30                   | 9           | CN (normal)        | Stainless steel | 23771820 |
| W 6200-2RS1        | 10                   | 30                   | 9           | CN (normal)        | Stainless steel | 23771819 |
| W 6200-2RS1/VP311  | 10                   | 30                   | 9           | CN (normal)        | Stainless steel | 13201749 |
| W 6200-2RS1/W64    | 10                   | 30                   | 9           | CN (normal)        | Stainless steel | 13201750 |
| W 6300-2Z          | 10                   | 35                   | 11          | CN (normal)        | Stainless steel | 23771865 |
| W 6300-2RS1        | 10                   | 35                   | 11          | CN (normal)        | Stainless steel | 23771864 |
| W 6300-2RS1/VT378  | 10                   | 35                   | 11          | CN (normal)        | Stainless steel | 12176789 |
| W 6300-2RS1/W64    | 10                   | 35                   | 11          | CN (normal)        | Stainless steel | 13201792 |
| W 61701-2ZS        | 12                   | 18                   | 4           | CN (normal)        | Stainless steel | 12121454 |
| W 61701-2RS1       | 12                   | 18                   | 4           | CN (normal)        | Stainless steel | 13201738 |
| W 61801-2Z         | 12                   | 21                   | 5           | CN (normal)        | Stainless steel | 23771789 |
| W 61801-2RS1       | 12                   | 21                   | 5           | CN (normal)        | Stainless steel | 23771788 |
| W 61801-2RS1/VT378 | 12                   | 21                   | 5           | CN (normal)        | Stainless steel | 12176756 |
| W 61901-2Z         | 12                   | 24                   | 6           | CN (normal)        | Stainless steel | 23771810 |
| W 61901-2Z/VT378   | 12                   | 24                   | 6           | CN (normal)        | Stainless steel | 13530250 |
| W 61901-2RS1       | 12                   | 24                   | 6           | CN (normal)        | Stainless steel | 23225190 |
| W 61901-2RS1/VT378 | 12                   | 24                   | 6           | CN (normal)        | Stainless steel | 12176763 |
| W 6001-2Z/C2       | 12                   | 28                   | 8           | C2                 | Stainless steel | 12176739 |
| W 6001-2Z          | 12                   | 28                   | 8           | CN (normal)        | Stainless steel | 23771753 |
| W 6001-2RS1        | 12                   | 28                   | 8           | CN (normal)        | Stainless steel | 23771752 |
| W 6001-2RS1/VP311  | 12                   | 28                   | 8           | CN (normal)        | Stainless steel | 13201706 |
| W 6001-2RS1/W64    | 12                   | 28                   | 8           | CN (normal)        | Stainless steel | 24004656 |
| W 6001-2RS1/W64F   | 12                   | 28                   | 8           | CN (normal)        | Stainless steel | 13201707 |
| W 6201-2Z          | 12                   | 32                   | 10          | CN (normal)        | Stainless steel | 23771823 |
| W 6201-2RS1        | 12                   | 32                   | 10          | CN (normal)        | Stainless steel | 23771822 |
| W 6201-2RS1/VP311  | 12                   | 32                   | 10          | CN (normal)        | Stainless steel | 13201752 |
| W 6201-2RS1/W64    | 12                   | 32                   | 10          | CN (normal)        | Stainless steel | 13201753 |
| W 6301-2Z          | 12                   | 37                   | 12          | CN (normal)        | Stainless steel | 23771867 |
| W 6301-2RS1        | 12                   | 37                   | 12          | CN (normal)        | Stainless steel | 23771866 |
| W 6301-2RS1/VT378  | 12                   | 37                   | 12          | CN (normal)        | Stainless steel | 12243111 |
| W 6301-2RS1/W64    | 12                   | 37                   | 12          | CN (normal)        | Stainless steel | 13201793 |
| W 61802-2Z         | 15                   | 24                   | 5           | CN (normal)        | Stainless steel | 23771791 |
| W 61802-2RS1       | 15                   | 24                   | 5           | CN (normal)        | Stainless steel | 23771790 |
| W 61902-2Z         | 15                   | 28                   | 7           | CN (normal)        | Stainless steel | 23771813 |
| W 61902-2RS1       | 15                   | 28                   | 7           | CN (normal)        | Stainless steel | 23771812 |
| W 6002-2Z          | 15                   | 32                   | 9           | CN (normal)        | Stainless steel | 23771755 |
| W 6002-2Z/VT378    | 15                   | 32                   | 9           | CN (normal)        | Stainless steel | 13530247 |
| W 6002-2RS1        | 15                   | 32                   | 9           | CN (normal)        | Stainless steel | 23771754 |
| W 6002-2RS1/VP311  | 15                   | 32                   | 9           | CN (normal)        | Stainless steel | 13201710 |
| W 6002-2RS1/W64    | 15                   | 32                   | 9           | CN (normal)        | Stainless steel | 13201711 |
| W 6202-2Z          | 15                   | 35                   | 11          | CN (normal)        | Stainless steel | 23771826 |
| W 6202-2Z/VT378    | 15                   | 35                   | 11          | CN (normal)        | Stainless steel | 13530252 |
| W 6202-2RS1        | 15                   | 35                   | 11          | CN (normal)        | Stainless steel | 23771825 |
| W 6202-2RS1/VP311  | 15                   | 35                   | 11          | CN (normal)        | Stainless steel | 13201755 |
| W 6202-2RS1/W64    | 15                   | 35                   | 11          | CN (normal)        | Stainless steel | 13201756 |
| W 6202-2RS1/W64L   | 15                   | 35                   | 11          | CN (normal)        | Stainless steel | 13201758 |
| W 6202-2RS1/W64F   | 15                   | 35                   | 11          | CN (normal)        | Stainless steel | 13201757 |
| W 6302-2Z          | 15                   | 42                   | 13          | CN (normal)        | Stainless steel | 23771869 |
| W 6302-2RS1        | 15                   | 42                   | 13          | CN (normal)        | Stainless steel | 23771868 |
| W 6302-2RS1/W64    | 15                   | 42                   | 13          | CN (normal)        | Stainless steel | 13201795 |
| W 61803-2Z         | 17                   | 26                   | 5           | CN (normal)        | Stainless steel | 24004664 |

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|--------------------|----------------------|----------------------|-------------|--------------------|-----------------|----------|
| W 61803-2RS1       | 17                   | 26                   | 5           | CN (normal)        | Stainless steel | 23771792 |
| W 61903-2Z         | 17                   | 30                   | 7           | CN (normal)        | Stainless steel | 23223815 |
| W 61903-2RS1       | 17                   | 30                   | 7           | CN (normal)        | Stainless steel | 23771814 |
| W 61903-2RS1/VT378 | 17                   | 30                   | 7           | CN (normal)        | Stainless steel | 12176765 |
| W 6003-2Z          | 17                   | 35                   | 10          | CN (normal)        | Stainless steel | 23771757 |
| W 6003-2RS1        | 17                   | 35                   | 10          | CN (normal)        | Stainless steel | 23771756 |
| W 6003-2RS1/VP311  | 17                   | 35                   | 10          | CN (normal)        | Stainless steel | 13201712 |
| W 6003-2RS2/VT127  | 17                   | 35                   | 10          | CN (normal)        | Stainless steel | 13530248 |
| W 6003-2RS1/W64    | 17                   | 35                   | 10          | CN (normal)        | Stainless steel | 12970511 |
| W 6003-2RS1/W64F   | 17                   | 35                   | 10          | CN (normal)        | Stainless steel | 13201713 |
| W 6203-2Z          | 17                   | 40                   | 12          | CN (normal)        | Stainless steel | 23771830 |
| W 6203-2RS1        | 17                   | 40                   | 12          | CN (normal)        | Stainless steel | 23771829 |
| W 6203-2RS1/VP311  | 17                   | 40                   | 12          | CN (normal)        | Stainless steel | 13201761 |
| W 6203-2RS1/W64    | 17                   | 40                   | 12          | CN (normal)        | Stainless steel | 13701290 |
| W 6203-2RS1/W64F   | 17                   | 40                   | 12          | CN (normal)        | Stainless steel | 13701288 |
| W 6303-2Z          | 17                   | 47                   | 14          | CN (normal)        | Stainless steel | 23771872 |
| W 6303-2RS1        | 17                   | 47                   | 14          | CN (normal)        | Stainless steel | 23771870 |
| W 6303-2RS1/W64    | 17                   | 47                   | 14          | CN (normal)        | Stainless steel | 13201796 |
| W 61804-2Z         | 20                   | 32                   | 7           | CN (normal)        | Stainless steel | 12465260 |
| W 61804-2RS1       | 20                   | 32                   | 7           | CN (normal)        | Stainless steel | 23771793 |
| W 61804-2RS1/VT378 | 20                   | 32                   | 7           | CN (normal)        | Stainless steel | 12176760 |
| W 61804-2RS1/W64   | 20                   | 32                   | 7           | CN (normal)        | Stainless steel | 13201742 |
| W 61904-2RS1       | 20                   | 37                   | 9           | CN (normal)        | Stainless steel | 23771816 |
| W 61904-2RS1/W64   | 20                   | 37                   | 9           | CN (normal)        | Stainless steel | 13701287 |
| W 6004-2Z          | 20                   | 42                   | 12          | CN (normal)        | Stainless steel | 23771760 |
| W 6004-2RS1        | 20                   | 42                   | 12          | CN (normal)        | Stainless steel | 23771759 |
| W 6004-2RS1/VP311  | 20                   | 42                   | 12          | CN (normal)        | Stainless steel | 13201714 |
| W 6004-2RS1/W64    | 20                   | 42                   | 12          | CN (normal)        | Stainless steel | 24004659 |
| W 6004-2RS1/W64F   | 20                   | 42                   | 12          | CN (normal)        | Stainless steel | 13201715 |
| W 6204-2Z          | 20                   | 47                   | 14          | CN (normal)        | Stainless steel | 23771833 |
| W 6204-2RS1        | 20                   | 47                   | 14          | CN (normal)        | Stainless steel | 23771832 |
| W 6204-2RS1/VP311  | 20                   | 47                   | 14          | CN (normal)        | Stainless steel | 13201764 |
| W 6204-2RS1/W64    | 20                   | 47                   | 14          | CN (normal)        | Stainless steel | 13201765 |
| W 6204-2RS1/W64F   | 20                   | 47                   | 14          | CN (normal)        | Stainless steel | 13201766 |
| W 6304-2Z          | 20                   | 52                   | 15          | CN (normal)        | Stainless steel | 23771874 |
| W 6304-2RS1        | 20                   | 52                   | 15          | CN (normal)        | Stainless steel | 23771873 |
| W 6304-2RS1/VT378  | 20                   | 52                   | 15          | CN (normal)        | Stainless steel | 12176793 |
| W 6304-2RS1/W64    | 20                   | 52                   | 15          | CN (normal)        | Stainless steel | 13201797 |
| W 61805-2RS1       | 25                   | 37                   | 7           | CN (normal)        | Stainless steel | 23771794 |
| W 61905-2RS1       | 25                   | 42                   | 9           | CN (normal)        | Stainless steel | 23771817 |
| W 61905-2RS1/VT378 | 25                   | 42                   | 9           | CN (normal)        | Stainless steel | 12176767 |
| W 61905-2RS1/W64F  | 25                   | 42                   | 9           | CN (normal)        | Stainless steel | 13201748 |
| W 61905-2RS1/W64   | 25                   | 42                   | 9           | CN (normal)        | Stainless steel | 13201747 |
| W 6005-2Z          | 25                   | 47                   | 12          | CN (normal)        | Stainless steel | 23771763 |
| W 6005-2RS1        | 25                   | 47                   | 12          | CN (normal)        | Stainless steel | 23771762 |
| W 6005-2RS1/VP311  | 25                   | 47                   | 12          | CN (normal)        | Stainless steel | 13201716 |
| W 6005-2RS1/W64F   | 25                   | 47                   | 12          | CN (normal)        | Stainless steel | 12645155 |
| W 6005-2RS1/W64    | 25                   | 47                   | 12          | CN (normal)        | Stainless steel | 13201717 |
| W 6205-2Z          | 25                   | 52                   | 15          | CN (normal)        | Stainless steel | 23771836 |
| W 6205-2RS1/C3     | 25                   | 52                   | 15          | C3                 | Stainless steel | 24207221 |
| W 6205-2RS1/C3W64  | 25                   | 52                   | 15          | C3                 | Stainless steel | 13201767 |
| W 6205-2RS1/VP311  | 25                   | 52                   | 15          | CN (normal)        | Stainless steel | 13201768 |
| W 6205-2RS1        | 25                   | 52                   | 15          | CN (normal)        | Stainless steel | 23771835 |

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| Manufacturer ID   | Inner diameter | Outer diameter | Width | Internal clearance | Cage            | Article  |
|-------------------|----------------|----------------|-------|--------------------|-----------------|----------|
|                   | mm             | mm             | mm    |                    |                 |          |
| W 6205-2RS1/W64F  | 25             | 52             | 15    | CN (normal)        | Stainless steel | 13701289 |
| W 6205-2RS1/W64   | 25             | 52             | 15    | CN (normal)        | Stainless steel | 13201769 |
| W 6305-2Z         | 25             | 62             | 17    | CN (normal)        | Stainless steel | 23771876 |
| W 6305-2RS1       | 25             | 62             | 17    | CN (normal)        | Stainless steel | 23771875 |
| W 6305-2RS1/VT378 | 25             | 62             | 17    | CN (normal)        | Stainless steel | 12342488 |
| W 6305-2RS1/W64   | 25             | 62             | 17    | CN (normal)        | Stainless steel | 13201799 |
| W 6305-2RS1/W64F  | 25             | 62             | 17    | CN (normal)        | Stainless steel | 13201800 |
| W 61906-2RS1      | 30             | 47             | 9     | CN (normal)        | Stainless steel | 12176768 |
| W 6006-2Z         | 30             | 55             | 13    | CN (normal)        | Stainless steel | 23771766 |
| W 6006-2RS1       | 30             | 55             | 13    | CN (normal)        | Stainless steel | 23771765 |
| W 6006-2RS1/VP311 | 30             | 55             | 13    | CN (normal)        | Stainless steel | 13201718 |
| W 6006-2RS1/W64   | 30             | 55             | 13    | CN (normal)        | Stainless steel | 24004660 |
| W 6006-2RS1/W64F  | 30             | 55             | 13    | CN (normal)        | Stainless steel | 13201719 |
| W 6206-2Z         | 30             | 62             | 16    | CN (normal)        | Stainless steel | 23771838 |
| W 6206-2RS1       | 30             | 62             | 16    | CN (normal)        | Stainless steel | 23771837 |
| W 6206-2RS1/VP311 | 30             | 62             | 16    | CN (normal)        | Stainless steel | 13201772 |
| W 6206-2RS1/W64   | 30             | 62             | 16    | CN (normal)        | Stainless steel | 13201773 |
| W 6306-2Z         | 30             | 72             | 19    | CN (normal)        | Stainless steel | 24004674 |
| W 6306-2RS1       | 30             | 72             | 19    | CN (normal)        | Stainless steel | 23771878 |
| W 6306-2RS1/W64   | 30             | 72             | 19    | CN (normal)        | Stainless steel | 13201801 |
| W 61807-2RS1      | 35             | 47             | 7     | CN (normal)        | Stainless steel | 13201744 |
| W 61907-2RS1      | 35             | 55             | 15    | CN (normal)        | Stainless steel | 12176770 |
| W 6007-2Z         | 35             | 62             | 14    | CN (normal)        | Stainless steel | 23771768 |
| W 6007-2RS1       | 35             | 62             | 14    | CN (normal)        | Stainless steel | 23771767 |
| W 6007-2RS1/VP311 | 35             | 62             | 14    | CN (normal)        | Stainless steel | 13201720 |
| W 6007-2RS1/W64   | 35             | 62             | 14    | CN (normal)        | Stainless steel | 12745274 |
| W 6207-2Z         | 35             | 72             | 17    | CN (normal)        | Stainless steel | 24004669 |
| W 6207-2RS1       | 35             | 72             | 17    | CN (normal)        | Stainless steel | 23771840 |
| W 6207-2RS1/VP311 | 35             | 72             | 17    | CN (normal)        | Stainless steel | 13201774 |
| W 6207-2RS1/W64F  | 35             | 72             | 17    | CN (normal)        | Stainless steel | 13201775 |
| W 6207-2RS1/W64   | 35             | 72             | 17    | CN (normal)        | Stainless steel | 12984415 |
| W 61908-2RS1      | 40             | 62             | 12    | CN (normal)        | Stainless steel | 12699055 |
| W 6008-2Z         | 40             | 68             | 15    | CN (normal)        | Stainless steel | 23771770 |
| W 6008-2RS1       | 40             | 68             | 15    | CN (normal)        | Stainless steel | 23771769 |
| W 6008-2RS1/VP311 | 40             | 68             | 15    | CN (normal)        | Stainless steel | 13201721 |
| W 6008-2RS1/W64   | 40             | 68             | 15    | CN (normal)        | Stainless steel | 13201722 |
| W 6208-2Z         | 40             | 80             | 18    | CN (normal)        | Stainless steel | 23771843 |
| W 6208-2RS1       | 40             | 80             | 18    | CN (normal)        | Stainless steel | 23771842 |
| W 6208-2RS1/VP311 | 40             | 80             | 18    | CN (normal)        | Stainless steel | 13201777 |
| W 6208-2RS1/W64   | 40             | 80             | 18    | CN (normal)        | Stainless steel | 13201778 |
| W 61909-2RS1      | 45             | 68             | 12    | CN (normal)        | Stainless steel | 12176771 |
| W 6009-2Z         | 45             | 75             | 16    | CN (normal)        | Stainless steel | 13201723 |
| W 6009-2RS1       | 45             | 76             | 16    | CN (normal)        | Stainless steel | 12190066 |
| W 6009-2RS1/VT378 | 45             | 76             | 16    | CN (normal)        | Stainless steel | 12176747 |
| W 6209-2RS1       | 45             | 85             | 19    | CN (normal)        | Stainless steel | 11951493 |
| W 6209-2RS1/VT378 | 45             | 85             | 19    | CN (normal)        | Stainless steel | 12176782 |
| W 6010-2RS1       | 50             | 80             | 16    | CN (normal)        | Stainless steel | 23771771 |
| W 6010-2RS1/VT378 | 50             | 80             | 16    | CN (normal)        | Stainless steel | 12176748 |
| W 6010-2RS1/W64   | 50             | 80             | 16    | CN (normal)        | Stainless steel | 13201724 |
| W 6210-2Z         | 50             | 90             | 20    | CN (normal)        | Stainless steel | 13201781 |
| W 6210-2RS1       | 50             | 90             | 20    | CN (normal)        | Stainless steel | 12453587 |
| W 6210-2RS1/VT378 | 50             | 90             | 20    | CN (normal)        | Stainless steel | 12176784 |
| W 6011-2RS1       | 55             | 90             | 18    | CN (normal)        | Stainless steel | 13530249 |

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