

FEATURES

- Offer reliability
- Reduce the risk of dust and dirt entering the ball bearing mechanism
- Preserve the lubricant within the bearing
- Seals keep it running smoother, for longer

12mm Deep Groove Ball Bearing 21mm O.D

RS Stock No.: 619-0109



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

A range of RS Pro single row, deep groove ball bearings, offering versatility and overall high performance. RS Pro sealed ball bearings are fitted with two synthetic rubber seals to prevent dirt and other items entering the bearing. These ball bearings are primarily intended for use where the inner ring rotates.

General Specifications

| | |
|---------------------------|---|
| Ball Bearing Type | Deep Groove |
| End Type | Sealed |
| Number of Rows | 1 |
| Static Load Rating | 670N |
| Material | Steel |
| Race Type | Plain |
| Bore Type | Parallel |
| Application | Food and Beverage Industry, Pharmaceutical, Medical industry, Engines and Pumps, Medical Industry, Printing |

Mechanical Specifications

| | |
|----------------------------|----------|
| Inside Diameter | 12mm |
| Outside Diameter | 21mm |
| Race Width | 5mm |
| Dynamic Load Rating | 1.43kN |
| Static Load | 0.655kN |
| Mass | 0.0060kg |



| RS Article no. | Description | Designation | End type | Race Type | ID mm | OD mm | Width mm | Dynamic KN | Static KN | Grease rpm | Oil rpm | Mass Kg |
|----------------|-------------------------|-------------|----------|-----------|----------|----------|-------------|---------------|--------------|---------------|------------|------------|
| 6189856 | Single Row Seal 3mm ID | 623-2RS | Sealed | Plain | 3 | 10 | 4 | 0.403 | 0.141 | 45000 | 52200 | 0.0016 |
| 6189862 | Single Row Seal 4mm ID | 624-2RS | Sealed | Plain | 4 | 13 | 5 | 0.825 | 0.309 | 37800 | 44100 | 0.0032 |
| 6189878 | Single Row Seal 5mm ID | 625-2RS | Sealed | Plain | 5 | 16 | 5 | 1.109 | 0.428 | 33300 | 39600 | 0.0048 |
| 6189913 | Single Row Seal 6mm ID | 626-2RS | Sealed | Plain | 6 | 19 | 6 | 1.474 | 0.558 | 30600 | 36000 | 0.0010 |
| 6189929 | Single Row Seal 7mm ID | 607-2RS | Sealed | Plain | 7 | 19 | 6 | 1.411 | 0.573 | 30600 | 36000 | 0.0080 |
| 6189935 | Single Row Seal 7mm ID | 627-2RS | Sealed | Plain | 7 | 22 | 7 | 2.111 | 0.882 | 28800 | 33300 | 0.0130 |
| 6189957 | Single Row Seal 8mm ID | 608-2RS | Sealed | Plain | 8 | 22 | 7 | 2.111 | 0.882 | 28800 | 33300 | 0.0120 |
| 6189941 | Single Row Seal 9mm ID | 609-2RS | Sealed | Plain | 9 | 24 | 7 | 2.142 | 0.914 | 27900 | 32400 | 0.0140 |
| 6189963 | Single Row Seal 9mm ID | 629-2RS | Sealed | Plain | 9 | 26 | 8 | 2.867 | 1.235 | 27000 | 31500 | 0.0200 |
| 6189979 | Single Row Seal 10mm ID | 6800-2RS | Sealed | Plain | 10 | 19 | 5 | 1.153 | 0.583 | 28800 | 34200 | 0.0050 |
| 6189991 | Single Row Seal 10mm ID | 6000-2RS | Sealed | Plain | 10 | 26 | 8 | 4.095 | 1.764 | 26100 | 30600 | 0.0190 |
| 6189985 | Single Row Seal 10mm ID | 6200-2RS | Sealed | Plain | 10 | 30 | 9 | 4.590 | 2.151 | 22500 | 27000 | 0.0320 |
| 6190008 | Single Row Seal 10mm ID | 6300-2RS | Sealed | Plain | 10 | 35 | 11 | 7.380 | 3.150 | 20700 | 24300 | 0.0530 |
| 6190109 | Single Row Seal 12mm ID | 6801-2RS | Sealed | Plain | 12 | 21 | 5 | 1.210 | 0.655 | 26100 | 31500 | 0.0060 |
| 6190121 | Single Row Seal 12mm ID | 6001-2RS | Sealed | Plain | 12 | 28 | 8 | 4.590 | 2.151 | 23400 | 27000 | 0.0210 |
| 6190143 | Single Row Seal 12mm ID | 6201-2RS | Sealed | Plain | 12 | 32 | 10 | 5.490 | 2.475 | 19800 | 23400 | 0.0370 |
| 6190165 | Single Row Seal 12mm ID | 6301-2RS | Sealed | Plain | 12 | 37 | 12 | 8.730 | 3.780 | 18000 | 21600 | 0.0600 |
| 6190159 | Single Row Seal 15mm ID | 6802-2RS | Sealed | Plain | 15 | 24 | 5 | 1.310 | 0.794 | 23400 | 27900 | 0.0070 |
| 6190171 | Single Row Seal 15mm ID | 6002-2RS | Sealed | Plain | 15 | 32 | 9 | 5.040 | 2.556 | 19800 | 23400 | 0.0300 |
| 6190187 | Single Row Seal 15mm ID | 6202-2RS | Sealed | Plain | 15 | 35 | 11 | 6.975 | 3.240 | 17100 | 20700 | 0.0450 |
| 6190200 | Single Row Seal 15mm ID | 6302-2RS | Sealed | Plain | 15 | 42 | 13 | 10.260 | 4.905 | 15300 | 18900 | 0.0820 |
| 6190288 | Single Row Seal 17mm ID | 6803-2RS | Sealed | Plain | 17 | 26 | 5 | 1.770 | 1.084 | 21600 | 25200 | 0.0080 |
| 6190301 | Single Row Seal 17mm ID | 6003-2RS | Sealed | Plain | 17 | 35 | 10 | 6.120 | 3.015 | 18000 | 21600 | 0.0390 |
| 6190317 | Single Row Seal 17mm ID | 6203-2RS | Sealed | Plain | 17 | 40 | 12 | 8.640 | 4.140 | 16200 | 18900 | 0.0660 |
| 6190294 | Single Row Seal 17mm ID | 6303-2RS | Sealed | Plain | 17 | 47 | 14 | 12.150 | 5.895 | 14400 | 17100 | 0.1150 |
| 6190323 | Single Row Seal 20mm ID | 6804-2RS | Sealed | Plain | 20 | 32 | 7 | 3.600 | 2.223 | 18900 | 22500 | 0.0190 |
| 6190345 | Single Row Seal 20mm ID | 6004-2RS | Sealed | Plain | 20 | 42 | 12 | 8.460 | 4.545 | 16200 | 18900 | 0.0690 |
| 6190339 | Single Row Seal 20mm ID | 6204-2RS | Sealed | Plain | 20 | 47 | 14 | 11.520 | 5.985 | 14400 | 16200 | 0.1060 |
| 6190351 | Single Row Seal 20mm ID | 6304-2RS | Sealed | Plain | 20 | 52 | 15 | 14.310 | 7.110 | 12600 | 15300 | 0.1440 |
| 6190452 | Single Row Seal 25mm ID | 6805-2RS | Sealed | Plain | 25 | 37 | 7 | 3.870 | 2.655 | 16200 | 18900 | 0.0220 |
| 6190446 | Single Row Seal 25mm ID | 6005-2RS | Sealed | Plain | 25 | 47 | 12 | 9.090 | 5.265 | 13500 | 16200 | 0.0800 |
| 6190468 | Single Row Seal 25mm ID | 6205-2RS | Sealed | Plain | 25 | 52 | 15 | 12.600 | 7.065 | 11700 | 13500 | 0.1280 |
| 6190474 | Single Row Seal 25mm ID | 6305-2RS | Sealed | Plain | 25 | 62 | 17 | 19.080 | 9.810 | 10800 | 12600 | 0.2320 |
| 6190480 | Single Row Seal 30mm ID | 6006-2RS | Sealed | Plain | 30 | 55 | 13 | 11.880 | 7.470 | 11700 | 13500 | 0.1160 |
| 6190496 | Single Row Seal 30mm ID | 6206-2RS | Sealed | Plain | 30 | 62 | 16 | 17.550 | 10.170 | 9900 | 11700 | 0.1990 |
| 6190503 | Single Row Seal 30mm ID | 6306-2RS | Sealed | Plain | 30 | 72 | 19 | 24.030 | 13.500 | 9000 | 10800 | 0.3600 |
| 6190519 | Single Row Seal 35mm ID | 6007-2RS | Sealed | Plain | 35 | 62 | 14 | 14.400 | 9.270 | 10800 | 12600 | 0.1550 |
| 6190525 | Single Row Seal 35mm ID | 6207-2RS | Sealed | Plain | 35 | 72 | 17 | 23.130 | 13.770 | 8820 | 9900 | 0.2880 |
| 6190547 | Single Row Seal 35mm ID | 6307-2RS | Sealed | Plain | 35 | 80 | 21 | 30.150 | 17.190 | 7920 | 9000 | 0.4570 |
| 6190531 | Single Row Seal 40mm ID | 6008-2RS | Sealed | Plain | 40 | 68 | 15 | 15.120 | 10.350 | 9000 | 10800 | 0.1900 |
| 6190553 | Single Row Seal 40mm ID | 6208-2RS | Sealed | Plain | 40 | 80 | 18 | 26.190 | 16.020 | 7830 | 9000 | 0.3660 |
| 6190569 | Single Row Seal 40mm ID | 6308-2RS | Sealed | Plain | 40 | 90 | 23 | 36.450 | 21.600 | 7020 | 8280 | 0.6300 |
| 6190581 | Single Row Seal 45mm ID | 6009-2RS | Sealed | Plain | 45 | 75 | 16 | 18.900 | 13.590 | 8280 | 9900 | 0.2370 |
| 6190575 | Single Row Seal 45mm ID | 6209-2RS | Sealed | Plain | 45 | 85 | 19 | 29.250 | 18.360 | 7020 | 8280 | 0.3980 |
| 6190597 | Single Row Seal 45mm ID | 6309-2RS | Sealed | Plain | 45 | 100 | 25 | 47.700 | 28.800 | 6300 | 7380 | 0.8140 |
| 6190604 | Single Row Seal 50mm ID | 6010-2RS | Sealed | Plain | 50 | 80 | 16 | 19.620 | 14.940 | 7560 | 8820 | 0.2610 |
| 6190610 | Single Row Seal 50mm ID | 6210-2RS | Sealed | Plain | 50 | 90 | 20 | 31.500 | 20.880 | 6390 | 7470 | 0.4540 |
| 6190626 | Single Row Seal 50mm ID | 6310-2RS | Sealed | Plain | 50 | 110 | 27 | 55.800 | 34.650 | 5760 | 6750 | 1.0700 |