Agricultural Research Council

Onderstepoort Veterinary Institute (OVR)

Request for Quotation

RFQ NUMBER:	**REQ-084327**
CLOSING DATE:	**Date:13 February 2024** **Time : 11H00**
DESCRIPTION	TAD BEARINGS & LINKED ASSESSORIES
ADDRESS	**ARC-Onderstepoort Veterinary Institute (ARC-OVI)** **100 Old Soutpan Road (M35)** **Private Bag X05** **ONDERSTEPOORT** **0110**
ENQUIRY	**Name: Barbara Kutumela-SCM** **Email:** **Kutumelab@arc.agric.za**
COMPULSORY SITE BRIEFING	**No**

1. You are kindly requested to submit a written quotation to the Agricultural Research Council as per below or attached terms of reference (TOR).

	RFQ number	Description	Quantity	Unit of Measure
	REQ-084327	Supply and deliver Bearings number 6307	04	EA
		Supply and deliver Bearings number 6310	04	
		Supply & deliver Bearings number 22209 CCK for plummer blocks	04	
		Supply and deliver H309 bearing adaptor sleeves with locknuts & locking washers for a 40 mm shaft.	04	
		Supply and deliver Bearings number: 6201 2Z	20	
		Supply and deliver Bearings number: 6202 2Z	20	
		Supply and deliver Bearings number: 6203 2Z	20	
		Supply and deliver Bearings number: 6204 2Z	20	

	RFQ number	Description	Quantity	Unit of Measure
		Supply and deliver Bearings number: 6205 2Z	20	
		Supply and deliver Bearings number: 6206 2Z	20	

SEE SPECIFICATION PICTURES FROM PAGE 14
ANY BRAND SIMILAR TO THE ONE ON THE PICTURES

2. Essential administrative requirements:

2.1. Only bidders registered on the Central Supplier Database (CSD) will be considered:
   a. Bidders shall include the CSD registration number and full current CSD report with the bid proposal.

2.2. Only bidders that claim specific goals will be considered for scoring on the 20 points as per the 80/20 principle.

2.3. Completed and signed Standard Bidding Documents (SBD) forms included in the bid document.

2.4. Tax Clearance Certificate

2.5. BBBEE Certificate / Sworn Affidavit

3. The above specified goods/services should be delivered / rendered to the ARC-Onderstepoort Veterinary Institute at above-mentioned delivery address.

4. The particulars of the guarantee that will apply to the goods quoted for, with the particular regards to the period and extent of the warranty must be clearly stated. Where services are required, service providers must submit documentation pertaining the relevant experience.

5. Your written quotation must be emailed depending on the instructions given in the email or advert.

6. All price quotations that have a rand value of R 2,000.00 to below R 50,000,000.00, including VAT, will be evaluated by applying the 80/20 principle as prescribed by the Preferential Procurement Policy Framework Act 5 of 2022 and its Regulations.

7. The lowest acceptable price will score 80 points, Specific goals for the tender and points claimed are indicate per the table below:

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system)	Number of points claimed (80/20 system)

	(To be completed by the organ of state)	(To be completed by the tenderer)
Percentage (%) Ownership by HDIs	**Points 8**	
91-100%	8	
81-90	7	
71-80	6	
61-70	5	
51-60	4	
41-50	3	
21-40	2	
1-20	1	
0%	0	
Percentage (%) ownership by Women	**Points (4)**	
81-100	4	
51-80	3	
31-50	2	
1-30	1	
0%	0	
Percentage (%) Ownership (by Youth	**Points (4)**	
81-100	4	
51-80	3	
31-50	2	
1-30	1	
0%	0	
Percentage Ownership by PwD	**Points (2)**	
51-100%	2	
1-50	1	
0%	0	
RDP Goals	**Points (2)**	
EMF's/QSF's	2	

8. Standard conditions:

8.1 The validity of the quotations must be indicated.

8.2 Prices quoted should be in South African Rand and inclusive of VAT costs such as delivery, insurance, taxes, etc.

8.3 No price adjustments or amendment of the delivery particulars contained in paragraph 8.2 will be considered by the ARC.

8.4 The supplier accepts full responsibility for the proper execution and fulfilment of the goods/services quoted for.

8.5 ARC reserves the right to accept or reject any special terms and conditions that may qualify the goods/services to be provided.

8.6 Quotes should be submitted on an official letterhead and duly signed.

8.7 Goods and services should be supplied / rendered upon receipt of a purchase order from the ARC.

8.8 The General Conditions of Contract issued by National Treasury are applicable.

8.9 The ARC supply chain management code of conduct is applicable.

8.10 Standard Bidding Documents (SBD) forms must be signed and returned together with the quotation. Failure to comply may result to disqualification of your quotation.

8.11 Only the quotation from suppliers who are requested to quote shall be evaluated and considered.

8.12 Your quotation must indicate the delivery date.

8.13 The ARC reserve the right to do due diligence on the quotations.

8.14 The ARC reserves the right to benchmark prices quoted.

8.15 Quotations must be valid for 60 days

Thank you in anticipation.
Ms Barbara Kutumela
Tel: +27 (0) 12 529-9317
Email: Kutumelab@arc.agric.za
Supply Chain Management: ARC
Date: 2024-02-07

SBD4

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest1 in the enterprise,

employed by the state? **YES/NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	**Identity Number**	**Name of State institution**

1 the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

……

……

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract?
YES/NO

2.3.1 If so, furnish particulars:
……

……

3 DECLARATION

I, the undersigned, (name)…… in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

3.1 I have read and I understand the contents of this disclosure;

3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;

3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor.

However, communication between partners in a joint venture or consortium2 will not be construed as collusive bidding.

3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.

3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

…… ……

Signature Date

…… ……

Position Name of bidder

2 Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

SBD 6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

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1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

(*delete whichever is not applicable for this tender*).

a) The applicable preference point system for this tender is the 90/10 preference point system.

b) The applicable preference point system for this tender is the 80/20 preference point system.

c) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

(a) Price; and

(b) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	**80**
SPECIFIC GOALS	**20**
Total points for Price and SPECIFIC GOALS	**100**

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

(a) **"tender"** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;

(b) **"price"** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;

(c) **"rand value"** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

(d) **"tender for income-generating contracts"** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and

(e) **"the Act"** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20 **or** **90/10**

$$Ps = 80\left(1 - \frac{Pt - P\,min}{P\,min}\right) \text{ or } \quad Ps = 90\left(1 - \frac{Pt - P\,min}{P\,min}\right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20 **or** **90/10**

$$Ps = 80\left(1 + \frac{Pt - P\,max}{P\,max}\right) \text{ or } \quad Ps = 90\left(1 + \frac{Pt - P\,max}{P\,max}\right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender.

For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

(a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or

(b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

+

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

***Note to tenderers: The tenderer must indicate how they claim points for each preference point system.*)**

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Percentage (%) Ownership by HDIs		**Points 8**		
91-100%		8		
81-90		7		
71-80		6		
61-70		5		

51-60		4		
41-50		3		
21-40		2		
1-20		1		
0%		0		
Percentage (%) ownership by Women		**Points (4)**		
81-100		4		
51-80		3		
31-50		2		
1-30		1		
0%		0		
Percentage (%) Ownership (by Youth		**Points (4)**		
81-100		4		
51-80		3		
31-50		2		
1-30		1		
0%		0		
Percentage Ownership by PwD		**Points (2)**		
51-100%		2		
1-50		1		
0%		0		
RDP Goals		**Points (2)**		
Any RDP goal/s		2		

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm……

4.4. Company registration number: ……..

4.5. TYPE OF COMPANY/ FIRM

- □ Partnership/Joint Venture / Consortium
- □ One-person business/sole propriety
- □ Close corporation
- □ Public Company
- □ Personal Liability Company

☐ (Pty) Limited
☐ Non-Profit Company
☐ State Owned Company
[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

i) The information furnished is true and correct;

ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;

iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;

iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –

(a) disqualify the person from the tendering process;

(b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;

(c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;

(d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and

(e) forward the matter for criminal prosecution, if deemed necessary.

	…….
	SIGNATURE(S) OF TENDERER(S)
SURNAME AND NAME:	…….
DATE:	…….
ADDRESS:	…….
	…….
	…….
	…….

ZYSL 6307 bearing 35*80*21mm deep groove ball bearing 6307

ZYSL 6307 bearing 35*80*21mm deep groove ball bearing 6307: 1. high speed and low noise 2. in stock,delivery within 24 hours 3. competitive price! 4. best service for you!

Product Specification:

Model NO.:	*6307*
ID*OD*B:	*35*80*21mm*
Material:	*Chrome steel*
Stock:	*in stock*
Brand:	*ZYSL*

Inquiry Now

SKF 6310 Bearing

Model:	6310
Category:	Deep Groove Ball Bearings
Dimensions:	50 x 110 x27(mm)

SKF Bearing Housing Bearing Housing 315 x 120 x 177mm,

RS stock no.: **213-2026** | Mfr. Part No.: **SNL 516-613** | Manufacturer: SKF

H 309

Adapter sleeve with KM lock nut and MB lock washer, metric dimensions

Adapter sleeves are the most commonly used components for locating bearings with a tapered bore onto a cylindrical seat as they can be used on plain shafts or stepped shafts. They are slit and are supplied complete with a KM lock nut and a MB lock washer.

- Easy to install
- Complete with lock nut
- Complete with locking device

SKF 6201-2Z Single Row Deep Groove Ball Bearing- Both Sides Shielded End Type, 12mm I.D, 32mm O.D

RS stock no.: **286-7940** | Mfr. Part No.: **6201-2Z** | Manufacturer: SKF

92 Available from UK/Europe in 4
days for collection or delivery to
(Heavy, hazardous or lithium pro
excluded. Delivery T&C's apply)

86 Available from UK/Europe in 4–6 wor
collection or delivery to major cities (He
or lithium product excluded. Delivery T&

1 units Ad

FREE delivery for orders ove

Real time stock check Add

6201-2Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	12 mm
Outside diameter	32 mm
Width	10 mm

Performance

Basic dynamic load rating	7.28 kN
Basic static load rating	3.1 kN
Reference speed	50 000 r/min
Limiting speed	26 000 r/min
SKF performance class	SKF Explorer

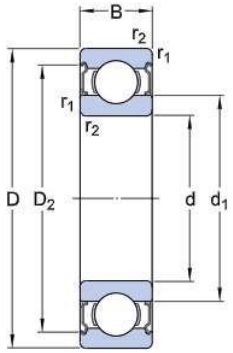
Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Tolerance class	Class P6 (P6)
Material, bearing	Bearing steel
Sealing	Shield on both sides

Lubricant	Grease
Relubrication feature	Without

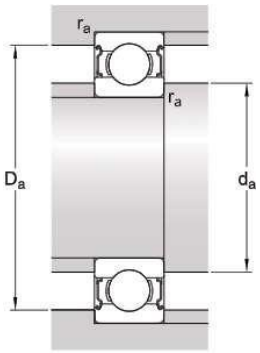
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	12 mm	Bore diameter
D	32 mm	Outside diameter
B	10 mm	Width
d_1	≈ 18.45 mm	Shoulder diameter
D_2	≈ 27.34 mm	Recess diameter
$r_{1,2}$	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 16.2 mm	Diameter of shaft abutment
d_a	max. 18.4 mm	Diameter of shaft abutment
D_a	max. 27.8 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	7.28 kN
Basic static load rating	C_0	3.1 kN
Fatigue load limit	P_u	0.132 kN
Reference speed		50 000 r/min

Limiting speed		26 000 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	12

Mass

Mass bearing	0.039 kg

Tolerance class

Dimensional tolerances	P6
Radial run-out	P5

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6202-2Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	15 mm
Outside diameter	35 mm
Width	11 mm

Performance

Basic dynamic load rating	8.06 kN
Basic static load rating	3.75 kN
Reference speed	43 000 r/min
Limiting speed	22 000 r/min
SKF performance class	SKF Explorer

Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Tolerance class	Class P6 (P6)
Material, bearing	Bearing steel
Sealing	Shield on both sides

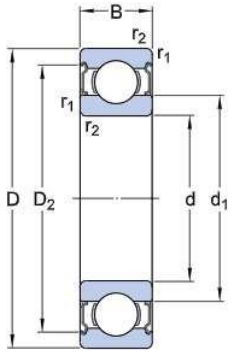
Lubricant	Grease
Relubrication feature	Without

Logistics

Product net weight	0.0465 kg
eClass code	23-05-08-01
UNSPSC code	31171504

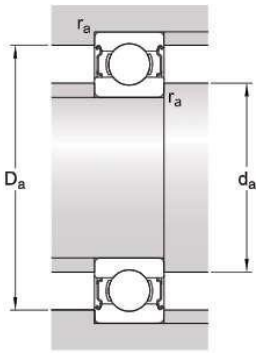
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	15 mm	Bore diameter
D	35 mm	Outside diameter
B	11 mm	Width
d_1	≈ 21.7 mm	Shoulder diameter
D_2	≈ 30.5 mm	Recess diameter
$r_{1,2}$	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 19.2 mm	Diameter of shaft abutment
d_a	max. 21.6 mm	Diameter of shaft abutment
D_a	max. 30.8 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	8.06 kN
Basic static load rating	C_0	3.75 kN
Fatigue load limit	P_u	0.16 kN
Reference speed		43 000 r/min

Limiting speed		22 000 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	13

Mass

Mass bearing	0.048 kg

Tolerance class

Dimensional tolerances	P6
Radial run-out	P5

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6203-2Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	0.669 in
Outside diameter	1.575 in
Width	0.472 in

Performance

Basic dynamic load rating	2 237 lbf
Basic static load rating	1 068 lbf
Reference speed	38 000 r/min
Limiting speed	19 000 r/min
SKF performance class	SKF Explorer

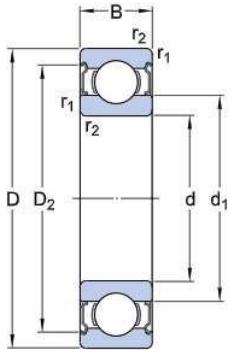
Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Tolerance class	Class P6 (P6)
Material, bearing	Bearing steel
Sealing	Shield on both sides

Lubricant	Grease
Relubrication feature	Without

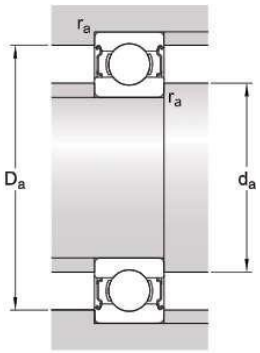
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	0.669 in	Bore diameter
D	1.575 in	Outside diameter
B	0.472 in	Width
d_1	≈ 0.965 in	Shoulder diameter
D_2	≈ 1.377 in	Recess diameter
$r_{1,2}$	min. 0.024 in	Chamfer dimension



Abutment dimensions

d_a	min. 0.835 in	Diameter of shaft abutment
d_a	max. 0.961 in	Diameter of shaft abutment
D_a	max. 1.409 in	Diameter of housing abutment
r_a	max. 0.024 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	2 237 lbf
Basic static load rating	C_0	1 068 lbf
Fatigue load limit	P_u	45 lbf
Reference speed		38 000 r/min

Limiting speed		19 000 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	13

Mass

Mass bearing	0.147 lb

Tolerance class

Dimensional tolerances	P6
Radial run-out	P5

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6204-2Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width	14 mm

Performance

Basic dynamic load rating	13.5 kN
Basic static load rating	6.55 kN
Reference speed	32 000 r/min
Limiting speed	17 000 r/min
SKF performance class	SKF Explorer

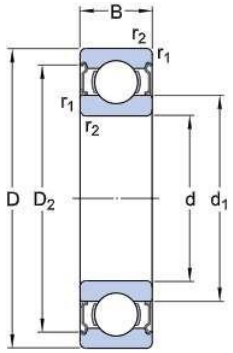
Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Tolerance class	Class P6 (P6)
Material, bearing	Bearing steel
Sealing	Shield on both sides

Lubricant	Grease
Relubrication feature	Without

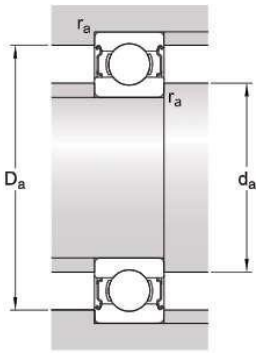
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
d_1	≈ 28.8 mm	Shoulder diameter
D_2	≈ 40.59 mm	Recess diameter
$r_{1,2}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 25.6 mm	Diameter of shaft abutment
d_a	max. 28.7 mm	Diameter of shaft abutment
D_a	max. 41.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	13.5 kN
Basic static load rating	C_0	6.55 kN
Fatigue load limit	P_u	0.28 kN
Reference speed		32 000 r/min

Limiting speed		17 000 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	13

Mass

Mass bearing	0.11 kg

Tolerance class

Dimensional tolerances	P6
Radial run-out	P5

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6205-2Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	15 mm

Performance

Basic dynamic load rating	14.8 kN
Basic static load rating	7.8 kN
Reference speed	28 000 r/min
Limiting speed	14 000 r/min
SKF performance class	SKF Explorer

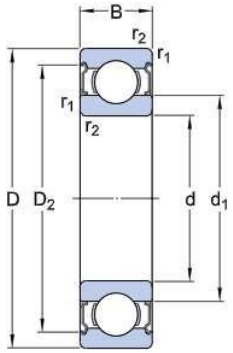
Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Tolerance class	Class P6 (P6)
Material, bearing	Bearing steel
Sealing	Shield on both sides

Lubricant	Grease
Relubrication feature	Without

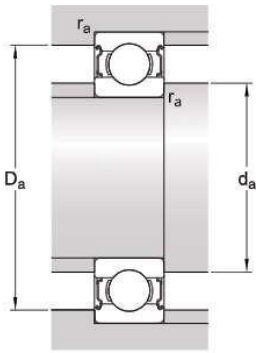
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d_1	≈ 34.35 mm	Shoulder diameter
D_2	≈ 46.21 mm	Recess diameter
$r_{1,2}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 30.6 mm	Diameter of shaft abutment
d_a	max. 34.3 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	14.8 kN
Basic static load rating	C_0	7.8 kN
Fatigue load limit	P_u	0.335 kN
Reference speed		28 000 r/min

Limiting speed		14 000 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	14

Mass

Mass bearing	0.13 kg

Tolerance class

Dimensional tolerances	P6
Radial run-out	P5

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6206-2Z

Deep groove ball bearing with seals or shields

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- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	16 mm

Performance

Basic dynamic load rating	20.3 kN
Basic static load rating	11.2 kN
Reference speed	24 000 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Tolerance class	Class P6 (P6)
Material, bearing	Bearing steel
Sealing	Shield on both sides

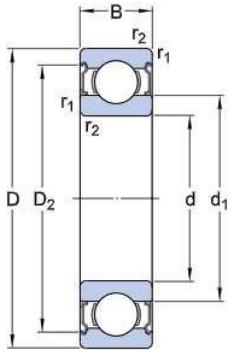
Lubricant	Grease
Relubrication feature	Without

Logistics

Product net weight	0.201 kg
eClass code	23-05-08-01
UNSPSC code	31171504

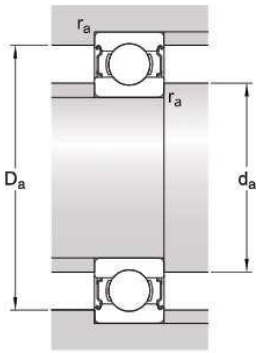
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
d_1	≈ 40.36 mm	Shoulder diameter
D_2	≈ 54.06 mm	Recess diameter
$r_{1,2}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 35.6 mm	Diameter of shaft abutment
d_a	max. 40.3 mm	Diameter of shaft abutment
D_a	max. 56.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	20.3 kN
Basic static load rating	C_0	11.2 kN
Fatigue load limit	P_u	0.475 kN
Reference speed		24 000 r/min

Limiting speed		12 000 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	14

Mass

Mass bearing	0.21 kg

Tolerance class

Dimensional tolerances	P6
Radial run-out	P6

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